



The author(s) shown below used Federal funding provided by the U.S. Department of Justice to prepare the following resource:

Document Title: A Market Survey on Contraband Detection Technologies

Author(s): Rebecca Koslover, M.S., Vivian Hung, Esq., Steven Babin, M.D., Ph.D., Amber Mills

Document Number: 250685

Date Received: April 2017

Award Number: 2013-MU-CX-K111

This resource has not been published by the U.S. Department of Justice. This resource is being made publically available through the Office of Justice Programs' National Criminal Justice Reference Service.

Opinions or points of view expressed are those of the author(s) and do not necessarily reflect the official position or policies of the U.S. Department of Justice.

A Market Survey on

Contraband Detection Technologies

Prepared for
The Department of Justice's
National Institute of Justice

NIJ | *National Institute
of Justice*

Rebecca Koslover, MS
Vivian Hung, Esq
Steven Babin, MD, PhD
Amber Mills

Prepared by
The Johns Hopkins University Applied Physics Laboratory



NATIONAL CRIMINAL JUSTICE TECHNOLOGY
RESEARCH, TEST & EVALUATION CENTER
POLICE • COURTS • CORRECTIONS

The research described in this report was sponsored by the National Institute of Justice; it was conducted and prepared by The Johns Hopkins University Applied Physics Laboratory, performer for the National Criminal Justice Technology Research, Test and Evaluation Center.

Published by the Johns Hopkins University Applied Physics Laboratory, Laurel,
Maryland.

© Copyright 2016 by the Johns Hopkins University Applied Physics Laboratory

For more than 70 years, The Johns Hopkins University Applied Physics Laboratory (APL) has provided critical contributions to critical challenges with systems engineering and integration, technology research and development, and analysis. As the Nation's largest University Affiliated Research Center, APL tackles vital national security and scientific challenges in a way that is free from conflicts of interest or competition with commercial industry.

www.jhuapl.edu

Task No.: FGSGJ

Contract No.: 2013-MU-CX-K111/115912

This project was supported by Award No. 2013-MU-CX-K111, awarded by the National Institute of Justice, Office of Justice Programs, U.S. Department of Justice. The opinions, findings, and conclusions or recommendations expressed in this publication/program/exhibition are those of the author(s) and do not necessarily reflect those of the Department of Justice.

DISCLAIMERS

Commercial products included herein do not constitute an endorsement by NIJ, DOJ, NLECTC, NIJ RT&E Center or The Johns Hopkins University Applied Physics Laboratory. NIJ, DOJ, NLECTC, NIJ RT&E Center, and Johns Hopkins University Applied Physics Laboratory assume no liability for any use of publication content. This publication is a reference for educational purposes only. Please carefully consider the particular needs/requirements of your agency and any applicable laws before developing policies or procedures governing the use of any technology.

All legal aspects regarding expectation of privacy issues and any other operational law enforcement procedures should be researched by agencies and their officials in accordance with local, state and federal laws prior to the implementation of technology described herein.

CONTENTS

	<u>Page</u>
1. INTRODUCTION	1–12
2. CONTRABAND DETECTION SYSTEMS	2–12
2.1 Background	2–12
2.2 Previous Surveys.....	2–16
3. METHODOLOGY	3–18
3.1 Literature Review.....	3–18
3.2 Request for Information.....	3–18
3.3 Three Main Categories.....	3–19
4. DATA COMPILATION.....	4–22
4.1 Contraband Detection Cross Comparison.....	4–22
4.2 Discussion of the Market Survey Data	4–40
5. CONTRABAND DETECTION TECHNOLOGIES	5–41
5.1 Adams Electronics AD10-2	5–41
5.2 Adams Electronics AD11-2	5–44
5.3 Adams Electronics AD11V.....	5–47
5.4 Adams Electronics AD15	5–50
5.5 Adams Electronics AD16	5–53
5.6 Adams Electronics AD360	5–56
5.7 Adams Electronics AD2300	5–59
5.8 Adams Electronics AD2600S	5–62
5.9 Adams Electronics AMR11	5–65
5.10 Adams Electronics AX777	5–68
5.11 Adams Electronics ER3000	5–71
5.12 Adams Electronics MIT	5–74
5.13 Adani Compass Dual View.....	5–77
5.14 Adani DTP 7500 LV	5–80
5.15 Adani DTP 7500 UV	5–83
5.16 Adani Security Compass DTP 200S	5–86
5.17 American Science and Engineering (AS&E) CarView	5–89
5.18 American Science and Engineering (AS&E) MiniZ	5–94
5.19 American Science and Engineering (AS&E) Sentry Portal.....	5–100
5.20 American Science and Engineering (AS&E) SmartCheck.....	5–104

5.21	American Science and Engineering (AS&E) SmartCheck HT.....	5-109
5.22	American Science and Engineering (AS&E) Z Portal Passenger Vehicles.....	5-114
5.23	American Science and Engineering (AS&E) Z Portal Trucks and Cargo.....	5-118
5.24	Autoclear 8000P.....	5-122
5.25	Autoclear 9000P.....	5-125
5.26	Autoclear Models 20 and 21.....	5-128
5.27	Autoclear MZ4.....	5-131
5.28	Autoclear MZ8.....	5-134
5.29	Autoclear SuperOmniPlus.....	5-137
5.30	Berkeley Varitronics (BV) Systems MantaRay.....	5-140
5.31	Berkeley Varitronics (BV) Systems PocketHound.....	5-145
5.32	Berkeley Varitronics (BV) Systems WolfHound.....	5-150
5.33	CEIA EMIS Mail.....	5-156
5.34	CEIA EMIS 6047 Package Screening.....	5-159
5.35	CEIA EMIS 8075 Package Screening.....	5-162
5.36	CEIA EMIS 110160 Pallet Screening.....	5-165
5.37	CEIA EMIS 130160 Pallet Screening.....	5-168
5.38	CEIA Magneto Static Detector.....	5-171
5.39	CEIA PD140.....	5-174
5.40	CEIA PD240.....	5-177
5.41	CEIA SMD600 Plus.....	5-180
5.42	CEIA SMD601 Plus (with or w/o Correctional Profiling System).....	5-183
5.43	CellSafe Cell Hound.....	5-187
5.44	ChemImage Aperio.....	5-192
5.45	ChemImage VeroVision Mail Screener.....	5-195
5.46	CSECO CT-40 Contraband Team Detection Kit.....	5-198
5.47	Decision Sciences Multi-Mode Passive Detection System (MMPDS) GEN3.....	5-204
5.48	Digital Barriers ThruVision TS4A.....	5-211
5.49	Digital X-Ray Specialist SecurPass.....	5-214
5.50	Fisher Research Labs CW-10.....	5-217
5.51	Fisher Research Labs CW-20.....	5-220
5.52	Fisher Research Labs M Scope Walk Through.....	5-223
5.53	Garrett CSI Pro.....	5-226
5.54	Garrett CSI Pro-Pointer II.....	5-229
5.55	Garrett PD6500i.....	5-232
5.56	Garrett Super Scanner V.....	5-235
5.57	Garrett Super Wand.....	5-238
5.58	Garrett THD.....	5-241

5.59	Homeland Security Strategies Global Cellular Detector	5-244
5.60	IDO Security MagShoe 3G/2.....	5-247
5.61	Iscon Imaging FocusScan	5-250
5.62	Iscon Imaging SecureScan.....	5-253
5.63	Med-Eng Merlin Contraband Detector	5-256
5.64	Metrasens Cellsense Plus.....	5-260
5.65	OD Security Soter RS	5-266
5.66	PKI Electronic Intelligence 7110 X-Ray Color Mailscanner	5-269
5.67	PKI Electronic Intelligence 7200 X-Ray Scanner	5-272
5.68	PKI Electronic Intelligence 9220.....	5-275
5.69	PKI Electronic Intelligence 9555.....	5-278
5.70	Polimaster PM1401T	5-281
5.71	Ranger Security BOSS II 5s	5-285
5.72	Ranger Security BOSS III.....	5-288
5.73	Ranger Security IntelliScan 6 Zone	5-291
5.74	Ranger Security IntelliScan 18 Zone	5-294
5.75	Ranger Security IntelliScan 33 Zone	5-297
5.76	Ranger Security M1000	5-300
5.77	Ranger Security M1500	5-303
5.78	Ranger Security MediScan	5-306
5.79	Rapiscan Metor 6M.....	5-309
5.80	Rapiscan Metor 6S.....	5-313
5.81	Rapiscan Metor 6WP	5-316
5.82	Rapiscan Metor 28	5-319
5.83	Research Electronics International (REI) Orion	5-322
5.84	SASRAD Fiberscope and Videoscope.....	5-326
5.85	SASRAD Hitech-Xpose.....	5-330
5.86	Security Pro USA Magnum Mobile UVIS	5-336
5.87	Security Pro USA Magnum UVIS	5-339
5.88	Security Pro USA UVI Video Camera IR013	5-342
5.89	Smiths Detection Eqo	5-345
5.90	SUNS International TS-80X	5-348
5.91	SUNS International TS-90.....	5-351
5.92	Torfino METAL-TEC HS-1500	5-354
5.93	Torfino METAL-TEC TE-1400	5-358
5.94	Vidisco BoltX	5-363
5.95	Vidisco FlashX.....	5-366
5.96	Vidisco FoXraylle VCU-10e	5-369

5.97	Vidisco FoXraylle VCU-16e	5-372
5.98	Vidisco RayzorX.....	5-375
5.99	Vidisco SparX.....	5-378
5.100	ViewSystems ViewScan	5-381
5.101	ViewSystems ViewScan Ultralite.....	5-384
5.102	White Electronics Spectra-Scan.....	5-387
5.103	Wizard Industries Security Wizard 4 Laser Metal Detector	5-390
6.	FUTURE CONSIDERATIONS	6-393
6.1	Neutron-Based Detection.....	6-393
6.2	Drone Detection.....	6-393
6.3	RFID Tracking.....	6-393
7.	CONCLUSION.....	7-394
8.	REFERENCES	8-1
	Appendix A. Acronyms and Abbreviations.....	A-1
	Appendix B. Request for Information	B-1

FIGURES

Figure 1. Adams Electronics AD10-2.....	5-41
Figure 2. Adams Electronics AD11-2.....	5-44
Figure 3. Adams Electronics AD11V	5-47
Figure 4. Adams Electronics AD15.....	5-50
Figure 5. Adams Electronics AD16.....	5-53
Figure 6. Adams Electronics AD360.....	5-56
Figure 7. Adams Electronics AD2300.....	5-59
Figure 8. Adams Electronics AD2600S.....	5-62
Figure 9. Adams Electronics AMR11.....	5-65
Figure 10. Adams Electronics AX777.....	5-68
Figure 11. Adams Electronics ER3000.....	5-71
Figure 12. Adams Electronics MIT	5-74
Figure 13. Adani Compass Dual View	5-77
Figure 14. Adani DTP 7500 LV	5-80
Figure 15. Adani DTP 7500 UV	5-83
Figure 16. Adani Security Compass DTP 200S	5-86
Figure 17. AS&E CarView.....	5-89
Figure 18. AS&E Mini Z.....	5-94
Figure 19. AS&E Sentry Portal	5-100
Figure 20. AS&E SmartCheck.....	5-104
Figure 21. AS&E SmartCheck HT	5-109
Figure 22. AS&E Z Portal Passenger Vehicles	5-114
Figure 23. AS&E Z Portal Trucks and Cargo.....	5-118
Figure 24. Autoclear 8000P.....	5-122

Figure 25. Autoclear 9000P.....	5-125
Figure 26. Autoclear Models 20 and 21	5-128
Figure 27. Autoclear MZ4	5-131
Figure 28. Autoclear MZ8	5-134
Figure 29. Autoclear SuperOmniPlus.....	5-137
Figure 30. BV Systems MantaRay	5-140
Figure 31. BV Systems PocketHound	5-145
Figure 32. BV Systems WolfHound.....	5-150
Figure 33. CEIA EMIS Mail.....	5-156
Figure 34. CEIA EMIS 6047 Package Screening.....	5-159
Figure 35. CEIA EMIS 8075 Package Screening.....	5-162
Figure 36. CEIA EMIS 110160 Pallet Screening	5-165
Figure 37. CEIA EMIS 130160 Pallet Screening	5-168
Figure 38. CEIA Magneto Static Detector.....	5-171
Figure 39. CEIA PD140.....	5-174
Figure 40. CEIA PD240.....	5-177
Figure 41. CEIA SMD600 Plus	5-180
Figure 42. CEIA SMD601 Plus (with or w/o Correctional Profiling System).....	5-183
Figure 43. CellSafe Cell Hound.....	5-187
Figure 44. ChemImage Aperio	5-192
Figure 45. ChemImage VeroVision Mail Screener	5-195
Figure 46. CSECO CT-40 Contraband Team Detection Kit	5-198
Figure 47. Decision Sciences MMPDS GEN3	5-204
Figure 48. Digital Barriers ThruVision TS4A.....	5-211
Figure 49. Digital X-Ray Specialist SecurPass	5-214

Figure 50. Fisher Research Labs CW-10.....	5-217
Figure 51. Fisher Research Labs CW-20.....	5-220
Figure 52. Fisher Research Labs M Scope Walk Through.....	5-223
Figure 53. Garrett CSI Pro.....	5-226
Figure 54. Garrett CSI Pro-Pointer II	5-229
Figure 55. Garrett PD6500i	5-232
Figure 56. Garrett Super Scanner V.....	5-235
Figure 57. Garrett Super Wand.....	5-238
Figure 58. Garrett THD	5-241
Figure 59. Homeland Security Strategies Global Cellular Detector.....	5-244
Figure 60. IDO Security MagShoe 3G/2	5-247
Figure 61. Iscon Imaging FocusScan.....	5-250
Figure 62. Iscon Imaging SecureScan	5-253
Figure 63. Med-Eng Merlin Contraband Detector.....	5-256
Figure 64. Metrasens Cellsense Plus	5-260
Figure 65. OD Security Soter RS.....	5-266
Figure 66. PKI 7110 X-Ray Color Mailscanner	5-269
Figure 67. PKI 7200 X-Ray Scanner	5-272
Figure 68. PKI 9220.....	5-275
Figure 69. PKI 9555.....	5-278
Figure 70. Polimaster PM1401T.....	5-281
Figure 71. Ranger Security BOSS II 5s.....	5-285
Figure 72. Ranger Security BOSS III	5-288
Figure 73. Ranger Security IntelliScan 6 Zone.....	5-291
Figure 74. Ranger Security IntelliScan 18 Zone.....	5-294

Figure 75. Ranger Security IntelliScan 33 Zone.....	5-297
Figure 76. Ranger Security M1000.....	5-300
Figure 77. Ranger Security M1500.....	5-303
Figure 78. Ranger Security MediScan.....	5-306
Figure 79. Rapiscan Metor 6M.....	5-309
Figure 80. Rapiscan Metor 6S.....	5-313
Figure 81. Rapiscan Metor 6WP.....	5-316
Figure 82. Rapiscan Metor 28.....	5-319
Figure 83. REI Orion.....	5-322
Figure 84. SASRAD Fiberscope and Videoscope.....	5-326
Figure 85. SASRAD Hitech-Xpose.....	5-330
Figure 86. Security Pro USA Magnum Mobile UVIS.....	5-336
Figure 87. Security Pro USA Magnum UVIS.....	5-339
Figure 88. Security Pro USA UVI Video Camera IR013.....	5-342
Figure 89. Smiths Detection Eqo.....	5-345
Figure 90. SUNS International TS-80X.....	5-348
Figure 91. SUNS International TS-90.....	5-351
Figure 92. Torfino METAL-TEC HS-1500.....	5-354
Figure 93. Torfino METAL-TEC TE-1400.....	5-358
Figure 94. Vidisco BoltX.....	5-363
Figure 95. Vidisco FlashX.....	5-366
Figure 96. Vidisco FoXraylle VCU-10e.....	5-369
Figure 97. Vidisco FoXraylle VCU-16e.....	5-372
Figure 98. Vidisco RayzorX.....	5-375
Figure 99. Vidisco SparX.....	5-378

Figure 100. ViewSystems ViewScan.....5-381

Figure 101. ViewSystems ViewScan Ultralite5-384

Figure 102. Whites Electronics Spectra-Scan.....5-387

Figure 103. Wizard Industries Security Wizard 4 Laser Metal Detector5-390

TABLES

Table 1. Summary of Number of Vendor Responses3-19

Table 2. Index of Vendors and Categories of their Products.....3-21

Table 3. Cross-Industry Comparison of Person-Borne Contraband Detection Technologies4-24

Table 4. Cross-Industry Comparison of Vehicle-Borne Contraband Detection Technologies4-33

Table 5. Cross-Industry Comparison of Environmental-Borne Contraband Detection Technologies4-36

1. INTRODUCTION

Contraband is a significant problem for correctional facilities across the United States (Kopochinski, 2012). Loosely defined as anything inmates are prohibited from possessing, contraband poses a threat to the safety of individuals both inside and outside the correctional system. While weapons, tools, and narcotics are the most obvious risks within the community, items such as money, electronic devices, food, and tobacco products all pose both a prevalent threat and unique detection challenge.

Due to the system wide contraband problem, the National Institutes of Justice (NIJ) requested the execution of a market survey regarding commercial contraband detection technologies currently available. This document is the collective summary of that market survey. Organized into three primary sections (person-borne, vehicle-borne, and environmental), each contraband detection system's information is grouped and summarized to aid correctional officials in planning the potential acquisition and implementation of these technologies. Additionally, this document provides a summary of the background research and methods used for performing this survey.

This survey does not evaluate or rank these products; there are no opinions presented concerning the quality or effectiveness of these products. Instead, the intent of this document is to provide correctional officials with a broad overview of the current contraband detection technologies available for their use.

The data presented in this document was collected via multiple research and collection avenues. In addition to general Internet searches, the public was broadly solicited with a request for information (RFI) published as a Federal Register Notice (FRN). Furthermore, in order to maximize exposure, vendors identified via Internet searches were directly contacted and invited to respond to the FRN. For vendors that did not respond to the FRN, we obtained as much information as we could from their websites. Over 100 products are summarized in this survey.

This document represents an overview of the technologies available at the time of the market survey (i.e., 2016). When considering the acquisition of contraband detection equipment, additional up-to-date information should be requested from the specific vendors of interest.

2. CONTRABAND DETECTION SYSTEMS

2.1 Background

In order to maintain the safety and security of members of the corrections community (including both corrections officials and incarcerated parties), there are numerous items that are prohibited from entering circulation in prison populations. Lists for prohibited items are generally extensive, varying in nature, and often vague (18 U.S. Code § 1791 - Providing or possessing contraband in prison) (Compilation of Codes, Rules and Regulations of the State of New York, 1988). Items such as weapons (firearms, knives, etc.) are naturally prohibited; more harmless seeming items such as mobile phones and currency (both United States and foreign) are also flagged as contraband for the dangers they can pose to individuals both inside and outside the

correctional system (Burke & Owen, 2010). However, despite policies against their introduction, contraband items still make their way into prison populations accidentally, via smuggling efforts, and from internal manufacturing. Technologies capable of effectively detecting contraband (both already in circulation and before they can enter circulation) represent a current and ever evolving need in the corrections community.

2.1.1 Defining Contraband

Despite federal efforts to standardize definitions of prison contraband, currently available definitions are very vague. Furthermore, the formal definitions of contraband provided by correctional facilities and regional legal codes are highly varying in categories, specificity, and limits on quantities. These factors complicate precisely defining the desired operational parameters for a contraband detection system. As such, it is necessary to not merely generate a list of prohibited items, but to understand the motivations behind the available rules.

As an example definition, from the State of New York's rules of conduct (Compilation of Codes, Rules and Regulations of the State of New York, 1988):

(ii.113.11) An inmate shall not possess any authorized item that has been altered in any manner so as to change its original intent and/or purpose.

While this definition is sufficient for general prosecution or revocation of privileges, its "I know it when I see it" nature lacks a degree of specificity. The unstated motivation of this regulation is a blanket ban on any modifications to equipment that could possibly result in the creation of a weapon. This rule also highlights that contraband does not necessarily have to be introduced into the correctional system from the outside; it can be created with resources available within the system. As another example:

(vi.113.16) An inmate shall not be in possession of stamps in excess of \$22.50 in value, money, credit card, credit card numbers, check or unauthorized valuable or property.

In this case, stamps themselves are not contraband, but have the potential to become contraband simply through quantity. This prohibition is focused on discouraging trade and bartering between inmates. As traditional forms of currency are banned in the correctional system, inmates tend to lean on alternative forms of payment such as stamps, or even packaged fish products (Scheck, 2008). As a final example:

(xix.113.29) An inmate shall not possess poppy seeds or any product containing poppy seeds.

The origins of this ban can be traced back to a 1988 court ruling aimed at improving the effectiveness of random drug testing (Poppy Seeds Banned in New York State Prisons, 1988).

2.1.2 Dangers of Contraband

In addition to the complexities regarding defining contraband, not all contrabands should be considered equal in the dangers they represent both inside and outside the correctional system. The poppy seed regulation given above provides an excellent example; while still a “contraband” item, poppy seeds are arguably substantially less critical to detect when compared with items such as weapons.

The threat posed by weapons should be obvious by their very nature. However, we must also properly characterize the threat posed by more harmless seeming items (such as cell phones or chewing gum) in order to properly assess the threat they potentially pose in the correctional system. For example, according to a 2010 FBI Law Enforcement Bulletin, inmates have used cell phones to “intimidate and threaten witnesses; transmit photographs, including offensive pictures sent to victims; orchestrate crimes, such as gang activity; coordinate escapes; bribe prison officials; order retaliation against other inmates; text other prisoners; gain access to the Internet; and create security breaches” (Burke & Owen, 2010).

2.1.3 Contraband Introduction

Contraband enters circulation in the correctional system through two primary avenues: via smuggling (intentional or accidental introduction) and via internal manufacturing.

While the risk of searches and subsequent criminal prosecution can serve as a deterrent for visitors trying to smuggle contraband, attempts are still made by family members, friends, and accomplices. For example, in *Robinson v. Palmer*, the wife of a prisoner attempted to smuggle in a quantity of marijuana wrapped in a plastic bag and secreted in her undergarments.¹ Along with attempts to bring contraband in through the front door, advances in modern technology have created the opportunity for remote controlled drones to be used in smuggling contraband (Crooks get creative to smuggle contraband, 2013). For example, in the United Kingdom, guards spotted a drone carrying contraband after it crashed on top of prison walls; the drone carried a package containing drugs, a knife, screwdriver, and mobile phones (Drone carrying drugs and weapons crashes into prison in smuggling bid, 2015).

Sometimes contraband is introduced through more official means. Corrections officers and employees have been observed smuggling contraband to inmates. Numerous convictions across the nation attest to this widespread problem. In Connecticut, a state prison guard was charged in federal court after he met with an undercover officer to receive 90 oxycodone pills that he planned to smuggle into the facility (Clarke, 2013). Similarly, two food service employees were arrested for smuggling contraband (cocaine, heroin, food, and a cell phone) into state prisons in New Mexico (Clarke, 2013).

¹ *Robinson v. Palmer*, 631 F. Supp. 52 (1986).

The other major avenue of contraband introduction is self-manufacturing by inmates. Manufactured contraband spans the full gamut from weapons to currency. Manufacturing can be as simple as repurposing non-contraband items (such as packaged fish products for currency), or as complicated as physically modifying objects to build weapons (Scheck, 2008). Oftentimes, inmates manufacture homemade “prison shanks” (defined as a makeshift, knife-like, weapon);² typically the materials for these shanks are gleaned from prison items such as dining utensils, woodshop parts, and even meat bones from meals (15 deadly improvised prison weapons and tools, 2009).

As a final example, the table below lists the arrests and contraband seizures for the Florida Department of Corrections during the 2013 fiscal year alone.

Example of Contraband-related Seizures (from Florida Department of Corrections Inspector General’s Annual Report 2013-14, <http://www.dc.state.fl.us/pub/igannual/20132014/stateinv.html>)

K9 / Drug Interdiction Team Operations	FY 2013-14
Arrests:	
Employees	4
Visitors	26
Inmates	11
Contraband Seized:	
Alcohol (gallons)	
Commercial	21.67
Homemade	78.31
Drugs (grams)	
Marijuana	2,342.37
Synthetic Cannabinoid	13,360.65
Cocaine	54.3
Other	1,001
Prescription drugs (dosage units)	1,142
Weapons, Cell Phones, Money	
Firearms (in vehicles on state property)	15
Ammunition (rounds, in vehicles)	1,099
Knives/sharps (entering or inside institution)	477
Cell phones or parts/accessories	1,783
Cash (excessive or contraband)	\$5,707

With this illustrative background, it is apparent that there is a crucial need to learn about existing and developing technologies that could enhance correctional institutions’ contraband detection capabilities. This market survey will focus on currently available technologies.

² *Huntsman v. Delaware*, Del. LEXIS 580 (1985).

2.2 Previous Surveys

2.2.1 NIJ Test and Evaluation of Handheld Cell Phone Detection Survey

An evaluation of handheld cell phone detection devices was developed by the National Law Enforcement and Corrections Technology Center’s (NLECTC) Corrections Technology Center of Excellence (CX CoE) (Shaffer and Russo, 2015). This study was based on the recommendation of corrections practitioners who recognized the need for an objective, scientific, evaluation of commercially available technologies. The DOJ and NIJ issued an FRN inviting equipment suppliers to participate in this evaluation by executing a letter of understanding loaning their equipment to the CX CoE.

Two vendors provided a total of four products for testing and evaluation. The study focused on strengths and limitations of each product. Features of interest included:

- Ability to detect phones in Off state
- Ability to detect phones in On/Active state
- Percent accuracy of detecting Off phones
- Detection range (Phones On/Active)
- Directional accuracy (Phones On/Active)

Between the four products, three different detection technologies were used: Radio Frequency Detection (RFD), Ferromagnetic Detection (FMD), and Non-Linear Junction Detection (NLJD). Though the RFD and FMD devices could detect cell phones that were powered Off, they were subject to false alarms, required the operator to be within 0-8 inches of the target cell phone, and provided very little directional indication to the operator. Alternatively, the RFD devices could only detect cell phones that were turned On. When the phones were in the On/Active state (i.e., actively engaging in a phone call), the RFD devices provided excellent detection and directional indicators. However, when in the On/Passive (standby) state, the RFD devices provided detection but no directional indication.

After 60 days of testing and evaluation, the testers were asked to select the one device that they would purchase. Results are briefly summarized below:

Product	Technology	Percent Selected
BVS PocketHound	RFD	83%
BVS WolfHound Pro	RFD	17%
BVS MantaRay	FMD	0%
REI Orion 2.4	NLJD	0%

2.2.2 U.S. Department of Homeland Security Handheld Metal Detectors Market Survey

A market survey on handheld metal detectors was conducted by the System Assessment and Validation for Emergency Responders (SAVER) program under the U.S. Department of

Homeland Security (DHS) (DHS, 2014). This market survey gathered information from October 2013 to February 2014 through internet research, industry publications, and a government issued RFI that was posted on the Federal Register Notices website.

A total of 32 handheld metal detectors from 10 different vendors were reviewed, ranging in cost from \$95 to \$550. Most of the reviewed handheld metal detectors provide visual and audible alarms while only half provide a vibration alarm. Important features reviewed include:

- LED indicators
- Alarm types
- Alarm adjust
- Sensitivity tuning
- Sensitivity levels
- Multiple operating frequencies
- Interference clearing
- Audio jack
- Operating temperature
- Maximum humidity range
- Operating frequency
- Battery type
- NIJ standards

These 32 handheld metal detectors have been incorporated into this market survey with updated technical information.

2.2.3 ManTech Body Cavity Screening for Criminal Justice Market Survey

A market survey on body cavity screening detectors was conducted by ManTech on April 2014 (Huffman and Ericson, 2014). NIJ published an RFI to request information and comments from vendors on December 2013. The ManTech market survey relied heavily on information provided from vendors that responded to the RFI along with some information obtained through literature review and Internet research of product information.

Important features reviewed included:

- Detects metals
- Detects non-metals
- Detects cavity concealed
- Total inspection time
- Information view
- Technology type

A total of 10 products were reviewed. Results are briefly summarized below:

Technology	Detect Metals	Detect Non-Metals	Underneath Clothing	Within Body Cavities
Transmission x-ray	Yes	Yes	Yes	Yes
Metal detection	Yes	No	Yes	Yes
Backscatter x-ray	Yes	Yes	Yes	No
Millimeter wave (MMW)	Yes	Yes	Yes	No
Thermal imaging	Yes	Yes	Yes	No

3. METHODOLOGY

3.1 Literature Review

To properly identify products for this market survey it was necessary to gain a general understanding of both currently available contraband detection technologies and the environments in which they are expected to operate (i.e., correctional facilities). To shape the research process, it was critical to identify technical capabilities (e.g., limitations), concepts of operation (e.g., visitor screening), and desired user features (e.g., notification types). To accomplish this task, a thorough literature review was conducted by the team; developing this understanding enabled the final market survey to take a balanced approach in delivering information critical to prospective consumers. As part of this literature review, many open-source materials (i.e., academic and professional journal articles, previous evaluations, agency request for proposals, vendor web sites, and NIJ-funded research) were reviewed.

3.2 Request for Information

Based on the information gathered via the preliminary literature review, a request for information (RFI) was developed for publication; the goal of the RFI was to invite input from contraband detection vendors regarding their technologies. Each vendor was asked to provide information in five broad categories:

1. Vendor Information
2. Product Information
3. Usability
4. Features and Functions
5. Performance and Security

The RFI was sent directly to various contraband detection vendors and publicly posted as a Notice of Request for Information in the Federal Register (see Appendix A for the full text as it appeared from 13 January 2016 to 15 February 2016). Additionally, attempts were made to contact companies identified in previous market surveys.

The data collected, both from vendor responses and general research, was then compiled and organized for this document. The outcomes of the survey are presented in two distinct forms in Sections 4 and 5. In Section 4, the data is presented as tables providing an overview of the contraband detection technologies. In Section 5, the individual products are presented on a vendor-by-vendor basis.

In all, fourteen (14) vendors responded to the RFI, and information from nineteen (19) more was collected via Internet search. Additionally, product information from each company included in previous market surveys was examined; vendor web sites were used to collect current information to include in the survey. Data collected via Internet research rather than response to

the RFI is noted below. In all, this market survey provides information on 103 contraband detection products manufactured by 33 unique vendors.

3.3 Three Main Categories

To organize the various contraband detection technologies, products were divided into three categories of detection: person-borne, vehicle-borne, and environmental. These categories are described in more detail below. Table 1 below shows the number of responding vendors for each category.

Table 1. Summary of Number of Vendor Responses

Contraband Detection Technology - Person	Vendors
- Responded to RFI	7
- Information via Internet Search	15
Contraband Detection Technology - Vehicle	
- Responded to RFI	5
- Information via Internet Search	4
Contraband Detection Technology - Environment	
- Responded to RFI	8
- Information via Internet Search	6

3.3.1 Person-Borne Detection

The person-borne detection category seeks to identify technologies that are capable of detecting contraband concealed either on a person or within body cavities. Products that fall under this category primarily include handheld detectors (including handheld cell phone detectors), and walkthrough detectors.

Handheld detectors are highly portable detection units that can provide a low-cost and effective means of screening individuals directly. For example, handheld cell phone detectors are devices that detect either the internal components of a cell phone (e.g., FMD), or the operating radio frequency from a cell phone (e.g., RFD).

Walkthrough detectors, as seen in a variety of public places, utilize different technology to detect contraband. These types of technology include transmission x-ray, metal detection, backscatter x-ray, millimeter wave (MMW), and thermal imaging.

3.3.2 Vehicle-Borne Detection

The vehicle-borne detection category seeks to identify technologies that are capable of detecting contraband concealed in vehicles (passenger cars, delivery trucks, etc.) entering and leaving correctional facilities. Vehicle detection systems typically include handheld and drive through devices. When comparing detectors, it is important to keep in mind the level of search required. For example, is a detailed visual inspection adequate, or is a search for hollow compartments

necessary? Camera systems are faster than a person doing a visual search, but they cannot see through walls and tires.

Drive-through vehicle-screening systems range from flexible mobile systems to fixed systems that can integrate into existing architecture. These detectors have high throughput rates allowing minimal impact to traffic flow. The size of detectors varies depending on the types and sizes of the vehicles they are rated to screen. This market survey includes products making use of technologies including radio frequency continuous wave detectors, backscatter x-ray systems, camera systems, and density measurements systems.

Handheld vehicle-screening detection devices are cost-effective but are often highly specialized for screening specific parts of a vehicle (gas tanks, tires, chassis, etc.) versus the entire vehicle. Often handheld devices are used in addition to drive-through screening systems.

3.3.3 Environmental Detection

The environmental detection category seeks to identify technologies that are capable of detecting contraband concealed in the environment (walls, furniture, etc.). Environmental detectors vary significantly in both intended purpose and platform (e.g., handheld scanners). The types of contraband detected from these systems ranges from drugs and cutting agents, to cellular devices, chemicals, and metallic objects. Unfortunately, there is no universal system that can detect all types of contraband; instead, these systems tend to be very specific, useful only for particular situations. This report covers three types of environmental contraband detection systems: mail and package screeners, surroundings screeners, and cellular phone detectors.

Mail screeners scan such mail as letters and other envelopes for illicit substances and tend to be small enough to fit on a desk. These contraband detectors are sensitive enough to find traces of a substance between the layers of paper in a business card or beneath a sticker. Package screeners are larger systems that take up more space and typically only search for metal. These detectors can screen larger items such as pallets, and can also be used to search trash and laundry bins for smuggled items.

Surroundings screeners vary significantly in capabilities and purposes. Handheld metal detectors that can be used underwater fall in this category, as well as detectors that screen for bomb making components. In order to be effective in searching surrounding areas, these detectors must be somewhat portable so that they can scan large areas such as fence perimeters.

Cellular device detectors were covered above in section 2.2.1.

3.3.4 Summary of Vendors by Category

Table 2. Index of Vendors and Categories of their Products.

Categories	Vendors	# of Tech	Page #
Person-Borne Vendors		68	
	Adams Electronics	11	5-41
	Adani	1	5-77
	AS&E	2	5-89
	Autoclear	6	5-122
	BV Systems	3	5-140
	CEIA	5	5-156
	CellSafe	1	5-187
	ChemImage	1	5-192
	Digital Barrier	1	5-211
	Digital X-Ray Specialists	1	5-214
	Fisher Research Labs	3	5-217
	Garrett Metal Detectors	5	5-226
	Homeland Security Strategies	1	5-244
	IDO Security	1	5-247
	Iscon Imaging	2	5-250
	Med-Eng	1	5-256
	Metrasens	1	5-260
	OD Security	1	5-266
	Ranger Security	8	5-285
	Rapiscan	4	5-309
	Smiths Detection	1	5-345
	SUNS International	2	5-348
	Torfino	2	5-354
	ViewSystems	2	5-381
	White's Electronics	1	5-387
	Wizard Industries	1	5-390
Vehicle-Borne Vendors		17	
	Adani	3	5-77
	AS&E	5	5-89
	BV Systems	1	5-140
	CSECO	1	5-198
	Decision Sciences	1	5-204
	Polimaster	1	5-281
	SASRAD	2	5-326
	Security Pro	3	5-336
Environmental Vendors		19	
	Adams Electronics	1	5-41
	AS&E	1	5-89
	BV Systems	1	5-140
	CEIA	5	5-156
	ChemImage	1	5-192
	Garrett Metal Detectors	1	5-226
	REI	1	5-322
	SASRAD	2	5-326
	Vidisco	6	5-363

4. DATA COMPILATION

This section will provide a snapshot of the contraband detection industry and the respective capabilities these products possessed at the time of data collection.

Readers looking for an overall sense of the capabilities and features across the contraband detection industry can refer to the tables in Section 4.1 below. These tables summarize and present basic product information such as the physical characteristics of the system. Each row in these tables represents an individual product offered by a vendor. Each column represents a specific feature type that was deemed desirable for the corrections community. Additionally, an asterisk highlights vendors that responded to the RFI.

Note, the amount of reported information varies significantly; some vendors did not respond to the RFI or did so with incomplete information. For vendors that did not respond in full, we used information available on their websites. The information available in online marketing materials is significantly sparser in comparison to data collected via the RFI. As a disclaimer, some of the information presented may be the result of incomplete or out of date information.

No judgments should be made on the quality of a vendor's product based on this information. Individuals or organizations interested in acquiring one of these products should contact the vendor directly. The purpose of this document is not to provide an evaluation of these products, but simply to give the law enforcement and public safety community a broad overview of the technology that is currently available on the market. By examining the data in these subsections, a prospective purchaser may compare features across the industry and seek out the vendors that provide the features of most interest.

4.1 Contraband Detection Cross Comparison

Tables 3, 4, and 5 below list all 103 of the contraband detection products from the 33 vendors identified in this survey. These tables are for person-borne, vehicle-borne, and environmental detectors, respectively, and are intended to provide an overview of the contraband detection marketplace. These tables should be considered representative of the marketplace but not comprehensive. The specifications in these tables were chosen due to their relevance to the corrections community, and because the information was readily available from most vendors. More detailed information on each product is provided in Section 5. The following subset of information is listed as columns of Tables, 3, 4, and 5:

- **Vendor name**
- **Product name and model**
- **Manufacturer's suggested retail price (MSRP)**
- **Product dimensions** – height (inches) x weight (inches) x depth (inches)
- **Weight** – weight of the contraband detection technology (in pounds)
- **Portability** – whether the contraband detection technology is easily portable
- **Indoor/Outdoor** – whether the contraband detection technology is intended for indoor use, outdoor use, or both

- **Metal Detection** – type of metals detected by the contraband detection technology
- **Non-Metal Detection** – types of non-metals detected by the contraband detection technology
- **Body Cavity Detection** – whether contraband can be detected in body cavities
- **Type of Detector Used** – type of sensor technology used
- **Total Inspection Time** – total amount of time it takes for the contraband detection technology to detect contraband
- **Alert/Alarm Mechanism** – the method used by the contraband detection technology to alert the operator of a detection
- **Power Requirements** – whether the contraband detection technology require electrical outlet or batteries for operation
- **Warranty** – written guarantee for the contraband detection technology (in months)

Table 3. Cross-Industry Comparison of Person-Borne Contraband Detection Technologies

#	Vendor	Product Name & Model	Primary Purpose	MSRP	Dimensions (H" x W" x D")	Weight (lbs)	Portability	Indoor/Outdoor	Metal Detection	Non-Metal Detection	Body Cavity Detection	Type of Detector Used	Total Inspection Time (sec/person)	Alert/Alarm Mechanism	Power Requirements	Battery Discharge Time (hours)	Warranty (months)
1	Adams Electronics*	AD10-2	Handheld contraband detection	\$150	14.0 x 2.2 x 1.2	0.6	Handheld	Both	Yes	No	Yes	Continuous wave technology	20	Audio/Visual	9 V battery	280	24
2	Adams Electronics*	AD11-2	Handheld contraband detection	\$200	14.0 x 2.2 x 1.2	0.6	Handheld	Both	Yes	No	Yes	Continuous wave technology	20	Audio/Visual	9 V battery	280	24
3	Adams Electronics*	AD11V	Handheld contraband detection	\$200	14.0 x 2.2 x 1.2	0.6	Handheld	Both	Yes	No	Yes	Continuous wave technology	20	Audio/Visual	9 V battery	280	24
4	Adams Electronics*	AD15	Handheld contraband detection	\$375	14.2 x 4.1 x 2.1	0.6	Handheld	Both	Yes	No	Yes	Continuous wave technology	20	Audio/Visual	9 V battery	280	24
5	Adams Electronics*	AD16	Handheld contraband detection	\$300	14.2 x 4.1 x 2.1	0.6	Handheld	Both	Yes	No	Yes	Continuous wave technology	20	Audio/Visual	9 V battery	280	24
6	Adams Electronics*	AD360	Handheld contraband detection	\$148	9.3 x 1.7	0.5	Handheld	Both	Yes	No	No	Continuous wave technology	20	Vibration	9 V battery	100	24
7	Adams Electronics*	AD2300	Handheld contraband detection	\$400	14.2 x 2.1 x 1.3	0.6	Handheld	Both	Yes	No	Yes	Continuous wave technology	20	Audio/Visual	9 V battery	360	36

#	Vendor	Product Name & Model	Primary Purpose	MSRP	Dimensions (H" x W" x D")	Weight (lbs)	Portability	Indoor/Outdoor	Metal Detection	Non-Metal Detection	Body Cavity Detection	Type of Detector Used	Total Inspection Time (sec/person)	Alert/Alarm Mechanism	Power Requirements	Battery Discharge Time (hours)	Warranty (months)
8	Adams Electronics*	AD2600S	Handheld contraband detection	\$445	14.2 x 4.1 x 2.1	0.6	Handheld	Both	Yes	No	Yes	Continuous wave technology	20	Audio/Visual	9 V battery	360	24
9	Adams Electronics*	AMR11	Handheld contraband detection	\$497	14.2 x 2.1 x 1.3	0.6	Handheld	Both	Yes	No	Yes	Continuous wave technology	20	Audio/Visual	9 V battery	360	36
10	Adams Electronics*	ER3000	Handheld contraband detection	\$497	14.2 x 4.1 x 2.1	0.6	Handheld	Both	Yes	No	Yes	Continuous wave technology	20	Audio/Visual	9 V battery	360	36
11	Adams Electronics*	MIT	Handworn contraband detection	\$175	--	0.3	Handworn	Both	Yes	No	Yes	Continuous wave technology	20	Vibration	9 V battery	48	24
12	Adani	Compass Dual View	High throughput walkthrough contraband detection	--	98.4 x 78374.0 x 89.0	1984.0	Fixed	Indoor	Yes	Yes	Yes	Digital X-ray	7	--	90-450 VAC + 10%-15%	--	--
13	AS&E	SmartCheck	Walkthrough contraband detection	\$98,751	768 x 552 x 1080	1500.0	Fixed	Indoor	Yes	Yes	No	Backscatter X-ray and X-ray	8	None	• 115 VAC +/- 10% (50/60Hz) requires dedicated 20 A circuit • 220 VAC +/- 10% (50/60Hz) requires dedicated 15 A circuit	--	12
14	AS&E	SmartCheck HT	High throughput walkthrough contraband detection	--	768 x 1158 x 1080	3000.0	Fixed	Indoor	Yes	Yes	No	Backscatter X-ray and X-ray	10	None	• 115 VAC +/- 10% (50/60Hz) requires dedicated 20 A circuit • 220 VAC +/- 10% (50/60Hz) requires dedicated 15 A circuit	--	12

#	Vendor	Product Name & Model	Primary Purpose	MSRP	Dimensions (H" x W" x D")	Weight (lbs)	Portability	Indoor/Outdoor	Metal Detection	Non-Metal Detection	Body Cavity Detection	Type of Detector Used	Total Inspection Time (sec/person)	Alert/Alarm Mechanism	Power Requirements	Battery Discharge Time (hours)	Warranty (months)
15	Autoclear	8000P	High throughput walkthrough contraband detection	--	24 x 35 x 87	105.0	Fixed	Indoor	Yes	Yes	--	Pulsed field metal detection	--	Audio/Visual	90-265 VAC; 50-60 Hz ±3Hz	--	12
16	Autoclear	9000P	Walkthrough contraband detection	--	24 x 35 x 87	100.0	Fixed	Indoor	Yes	Yes	--	--	--	Audio/Visual	90-265 VAC; 50-60 Hz ±3Hz	--	12
17	Autoclear	Models 20 and 21	Handheld contraband detection	--	2.4 x 3.6 x 17	0.7	Handheld	Both	Yes	No	--	--	--	Audio/Visual/ Vibration	9 V battery	130	12
18	Autoclear	MZ4	Multi-zone walkthrough contraband detection	--	24 x 35 x 87	140.0	Fixed	Indoor	Yes	Yes	--	--	--	Audio/Visual	90-265 VAC; 50-60 Hz ±3Hz	--	12
19	Autoclear	MZ8	Multi-zone walkthrough contraband detection	--	24 x 35 x 87	140.0	Fixed	Indoor	Yes	Yes	--	--	--	Audio/Visual	90-265 VAC; 50-60 Hz ±3Hz	--	12
20	Autoclear	SuperOmniPlus	Handheld contraband detection	--	18.5 x 2.5 x 1.0	0.9	Handheld	Both	Yes	No	--	--	--	Audio	9 V battery	--	--
21	BV Systems*	MantaRay	Handheld cell phone detection	\$599	7.0 x 3.0 x 2.0	0.6	Handheld	Both	Yes	No	Yes	Passive ferromagnetic detection	90	Audio/Visual	9 V battery	3	12

#	Vendor	Product Name & Model	Primary Purpose	MSRP	Dimensions (H" x W" x D")	Weight (lbs)	Portability	Indoor/Outdoor	Metal Detection	Non-Metal Detection	Body Cavity Detection	Type of Detector Used	Total Inspection Time (sec/person)	Alert/Alarm Mechanism	Power Requirements	Battery Discharge Time (hours)	Warranty (months)
22	BV Systems*	PocketHound	Handheld cell phone detection	\$499	4.3 x 2.8 x 0.8	0.5	Handheld	Both	No	No	Yes	Radio frequency continuous wave detector	--	Visual/Vibration	Internal rechargeable battery	2	12
23	BV Systems*	WolfHound	Handheld cell phone detection	\$2,400	10 x 5.5 x 7.5	1.9	Handheld	Both	No	No	Yes	Radio frequency continuous wave detector	--	Audio/Visual/Vibration	Internal rechargeable battery	6	12
24	CEIA*	Magneto Static Detector	Portable, full height contraband detection	--	75 x 13 x 13	21.0	Portable	Both	Yes	--	Yes	Passive magnetic detection	1.5	Audio/Visual	Electric: 100 ... 240 V~ , 47...63Hz, 40W Battery Operation: Embedded rechargeable battery	26	24
25	CEIA*	PD140	Handheld contraband detection	--	14.2 x 3.2 x 1.6	0.9	Handheld	Both	Yes	No	--	Magnetic field transmitter-receiver	--	Audio/Visual/Vibration	2 AA NiMH rechargeable batteries	100-200	--
26	CEIA*	PD240	Handheld contraband detection	--	17 x 3.2 x 1.6	1.0	Handheld	Both	Yes	No	--	Magnetic field transmitter-receiver	--	Audio/Visual/Vibration	2 AA NiMH rechargeable batteries	100-200	--
27	CEIA*	SMD600 Plus	Multi-zone walkthrough contraband detection	--	88.8 x 32.9 x 28.0	125.0	Fixed	Both	Yes	--	Yes	Continuous wave technology	1.5	Audio/Visual	Electric: 100...240V~ - 10/+15%, 47...63Hz, 40 VA max	9	24
28	CEIA*	SMD601 Plus	Multi-zone walkthrough detection with optional profiling feature	--	88.8 x 32.9 x 28	163.0	Fixed	Both	Yes	--	Yes	Continuous wave technology	1.5	Audio/Visual	Electric: 100...240V~ - 10/+15%, 47...63Hz, 40 VA max	9	24

#	Vendor	Product Name & Model	Primary Purpose	MSRP	Dimensions (H" x W" x D")	Weight (lbs)	Portability	Indoor/Outdoor	Metal Detection	Non-Metal Detection	Body Cavity Detection	Type of Detector Used	Total Inspection Time (sec/person)	Alert/Alarm Mechanism	Power Requirements	Battery Discharge Time (hours)	Warranty (months)
29	Digital Barriers*	ThruVision TS4A	Standoff contraband detection	\$107,000	22 x 8 x 26	53.0	Fixed but portable	Indoor	Yes	Yes	No	Passive millimeter wave	40	Audio/Visual	90-264 V, 50-60 Hz universal mains input	--	12
30	Digital X-Ray Specialists	SecurPass	Walkthrough contraband detection	--	101.2 x 86.1 x 89.4	1433.0	Fixed	Indoor	Yes	Yes	Yes	Transmission X-ray	8	--	220 V/ 110 V; 15 A; 50-60 Hz; 2kW	--	--
31	Fisher Research Labs	CW-10	Handheld contraband detection	--	15.8 x 2.5 x 1.0	0.7	Handheld	--	Yes	No	--	Motion detector	--	Audio/Visual/Vibration	9 V battery	30-40	24
32	Fisher Research Labs	CW-20	Handheld contraband detection	--	16.5 x 3.5 x 1.4	0.9	Handheld	--	Yes	No	--	--	--	Audio/Visual/Vibration	9 V battery	--	24
33	Fisher Research Labs	M Scope Walk Through	Walkthrough contraband detection	--	88 x 43.5 x 23.8	85.0	Fixed but portable	Both	Yes	--	--	Photo diode	--	Audio/Visual	110 Volts or 220 V (AC or DC); 2 Reusable batteries	40	24
34	Garrett	CSI Pro-Pointer II	Handheld contraband detection	\$170	9.0 x 1.5	0.4	Handheld	Both	Yes	No	--	--	--	Audio/Visual/Vibration	9 V battery	16-30	24
35	Garrett	PD6500i	Walkthrough contraband detection	\$5,495	87 x 35 x 23	165.0	Fixed but portable	Both	Yes	No	--	Digital Signal Processing (DSP)	--	Audio/Visual/Vibration	Fully automatic 100-240 VAC, 50 or 60 Hz, 45 W; no rewiring, switching, or adjustments needed	10-30	24

#	Vendor	Product Name & Model	Primary Purpose	MSRP	Dimensions (H" x W" x D")	Weight (lbs)	Portability	Indoor/Outdoor	Metal Detection	Non-Metal Detection	Body Cavity Detection	Type of Detector Used	Total Inspection Time (sec/person)	Alert/Alarm Mechanism	Power Requirements	Battery Discharge Time (hours)	Warranty (months)
36	Garrett	Super Scanner V	Handheld contraband detection	\$200	16.5 x 3.3 x 1.6	1.1	Handheld	Both	Yes	No	--	--	--	Audio/Visual/Vibration	9 V battery	--	24
37	Garrett	Super Wand	Handheld contraband detection	\$230	19 x 3.3 x 1.3	1.2	Handheld	Both	Yes	No	--	--	--	Audio/Visual/Vibration	9 V battery	--	24
38	Garrett	THD	Handheld contraband detection	\$200	8.43 x 3.3 x 1.6	0.4	Handheld	Both	Yes	No	--	--	--	Visual/Vibration	9 V battery	--	24
39	IDO Security	MagShoe 3G/2	Shoe scanning contraband detection	--	--	--	Portable	--	Yes	--	--	Non-ionizing and low frequency electromagnetic fields	2	--	--	--	--
40	Iscon Imaging	FocusScan	Handheld contraband detection	--	10.5 x 7.0 x 14.0	4.5	Handheld	--	Yes	Yes	--	Thermo-conductive infrared technology	15	Visual	100-125 VAC/4A; 200-240 VA/2A; 50-60Hz	--	12
41	Iscon Imaging	SecureScan	Full body scanner contraband detection		84.0 x 41.0 x 47.5	750.0	Fixed	Indoor	Yes	Yes	--	Thermo-conductive infrared technology	15	Visual	200-240 VAC; 30 A; 50-60Hz	--	12
42	Metrasens*	Cellsense Plus	Portable contraband detection	\$12,995	73.6 x 13.4 x 13.4	39.7	Portable	Both	Yes	No	Yes	Ferromagnetic detection	1.5	Audio/Visual	100-240 VAC/50-60 Hz for the battery charger	12-16	48

#	Vendor	Product Name & Model	Primary Purpose	MSRP	Dimensions (H" x W" x D")	Weight (lbs)	Portability	Indoor/Outdoor	Metal Detection	Non-Metal Detection	Body Cavity Detection	Type of Detector Used	Total Inspection Time (sec/person)	Alert/Alarm Mechanism	Power Requirements	Battery Discharge Time (hours)	Warranty (months)
43	OD Security	Soter RS	Full body scanner contraband detection	--	--	--	Fixed	Indoor	Yes	Yes	Yes	Transmission X-ray	10	--	2 kW, 220 V, 60 Hz, 13 A 2.4-3.5 mA X-Ray tube current	--	--
44	Ranger Security	BOSS II 5s	Cavity screening system	\$11,500	50 x 22 x 51	210.0	Fixed but portable	Indoor	Yes	No	Yes	--	--	Audio/Visual	115 – 240 VAC / 47 – 63 Hz	--	24
45	Ranger Security	BOSS III	Cavity screening system	\$7,500	41 x 36 x 22	138.0	Fixed but portable	Indoor	Yes	No	Yes	--	--	Audio/Visual	115 – 240 VAC / 47 – 63 Hz	--	24
46	Ranger Security	IntelliScan 6 Zone	Walkthrough contraband detection	\$3,799	87.5 x 35 x 21.8	181.0	Fixed but portable	Both	Yes	No	--	Continuous wave multiple sensor measurement with high stability digital signal processor	--	Audio/Visual	115 – 230 VAC, 50-60 Hz (backup battery optional)	--	24
47	Ranger Security	IntelliScan 18 Zone	Walkthrough contraband detection	\$4,499	87.5 x 35 x 21.8	181.0	Fixed but portable	Both	Yes	No	--	Continuous wave multiple sensor measurement with high stability digital signal processor	--	Audio/Visual	100 – 250 VAC, 47-63 Hz (backup battery optional)	--	24
48	Ranger Security	IntelliScan 33 Zone	Walkthrough contraband detection	\$5,299	87.5 x 35 x 21.8	181.0	Fixed but portable	Both	Yes	No	--	Continuous wave multiple sensor measurement with high stability digital signal processor	--	Audio/Visual	115 – 230 VAC, 50-60 Hz (backup battery optional)	--	24
49	Ranger Security	M1000	Handheld contraband detection	\$150	3.1 x 1.4 x 16.0	0.9	Handheld	Both	Yes	No	--	--	--	Audio/Visual	9 V battery	80	24

#	Vendor	Product Name & Model	Primary Purpose	MSRP	Dimensions (H" x W" x D")	Weight (lbs)	Portability	Indoor/Outdoor	Metal Detection	Non-Metal Detection	Body Cavity Detection	Type of Detetor Used	Total Inspection Time (sec/person)	Alert/Alarm Mechanism	Power Requirements	Battery Discharge Time (hours)	Warranty (months)
50	Ranger Security	M1500	Handheld contraband detection	\$170	3.1 x 1.4 x 16	0.9	Handheld	Both	Yes	No	--	--	--	Audio/Visual	9 V battery	80	24
51	Rapiscan	Metor 6M	Walkthrough contraband detection	--	88.2 x 35.4 x 27.6	146.0	Fixed	Both	Yes	No	--	--	--	Audio/Visual	Mains: 90-264V AC/50-60Hz Battery: 12V DC	8	24
52	Rapiscan	Metor 6S	Walkthrough contraband detection	--	88 x 33 x 28	139.0	Fixed	Both	Yes	No	Yes	--	--	Audio/Visual	Mains: 90-264V AC/50-60Hz Battery: 12V DC	8	--
53	Rapiscan	Metor 6WP	Walkthrough contraband detection	--	88 x 40 x 35	90.0	Fixed but portable	Both	Yes	No	--	--	--	Audio/Visual	Mains: 90-264VAC /50-60Hz Battery: 12V DC	8	--
54	Rapiscan	Metor 28	Handheld contraband detection	--	16.4 x 5.5	0.6	Handheld	Both	Yes	No	--	--	--	Audio/Visual	NiNH rechargeable battery or 9V alkaline battery	40-120	24
55	Smiths Detection	Eqo	High throughput walkthrough contraband detection	--	83.1 x 42.5 x 95.1	1035.0	Fixed	Indoor	Yes	Yes	--	Active millimeter wave technology	--	Audio/Visual	120 VAC; 230 VAC	--	--
56	SUNS International	TS-80X	Handheld contraband detection	--	15.5 x 5.3 x 2.8	0.5	Handheld	--	Yes	--	--	--	--	Audio	9V 6F22	--	--

#	Vendor	Product Name & Model	Primary Purpose	MSRP	Dimensions (H" x W" x D")	Weight (lbs)	Portability	Indoor/Outdoor	Metal Detection	Non-Metal Detection	Body Cavity Detection	Type of Detector Used	Total Inspection Time (sec/person)	Alert/Alarm Mechanism	Power Requirements	Battery Discharge Time (hours)	Warranty (months)
57	SUNS International	TS-90	Handheld contraband detection	--	16.5 x 3.2 x 1.6	1.0	Handheld	--	Yes	--	--	--	--	Audio/Visual	Rechargeable nickel-cadmium battery; 6F22 9V; 8mA	80	--
58	Torfino*	METAL-TEC HS-1500	Handheld contraband detection	\$229	1.3 x 1.8 x 7.9	0.6	Handheld	Both	Yes	No	Yes	Triaxial detection field	45	Vibration	9 V battery	25	36
59	Torfino*	METAL-TEC TE-1400	Handheld contraband detection	\$169	1.3 x 1.8 x 7.9	0.6	Handheld	Both	Yes	No	Yes	Triaxial detection field	45	Vibration	9 V battery	--	36
60	ViewSystems	ViewScan	Walkthrough contraband detection	--	82 x 32 x 63	56.0	Fixed but portable	--	Yes	--	Yes	Magnetic sensors with onboard digital signal processing	--	Audio/Visual	110/220 VAC; 3.5 A	4	--
61	ViewSystems	ViewScan Ultralite	Walkthrough contraband detection	--	80 x 49	23.0	Fixed	--	Yes	--	Yes	Magnetic sensors with onboard digital signal processing	--	Audio/Visual	110/220 VAC; 1.5 A	4	--
62	Whites Electronics	Spectra-Scan	Handheld contraband detection	\$230	16.0 x 2.8 x 1.2	0.7	Handheld	Both	Yes	No	--	--	--	Audio/Visual/Vibration	9 volt battery or 1200 mA-hour lithium-manganese dioxide batteries	16	36
63	Wizard Industries*	Security Wizard 4 Laser Metal Detector	Handheld contraband detection	\$150	18 x 2 x 1	1.2	Handheld	Both	Yes	No	Yes	Continuous wave detector	15	Visual	9 V battery	9	12

Legend	
--	No Info
*	Responded to RFI

Table 4. Cross-Industry Comparison of Vehicle-Borne Contraband Detection Technologies

#	Vendor	Product Name & Model	Primary Purpose	MSRP	Dimensions (H" x W" x D")	Weight (lbs)	Portability	Metal Detection	Non-Metal Detection	People or Animals Detection	Type of Detector Used	Total Inspection Time (sec/vehicle)	Alert/Alarm Mechanism	Power Requirements	Warranty (months)
1	Adani	DTP 7500 LV	X-ray scanner for vehicles	--	1574.8 x 1181.1 x 984.3	--	Fixed but moveable	Yes	Yes	Yes	X-ray	--	--	--	--
2	Adani	DTP 7500 UV	X-ray scanner for vehicles	--	168.1 x 163.2 x 984	--	Fixed	Yes	Yes	Yes	7.5 MeV accelerator ionizing radiation	--	--	--	--
3	Adani	Security Compass DTP 200S	X-ray scanner for vehicles	--	118.1 x 118.1 x 196.9	--	Fixed	Yes	Yes	Yes	X-ray	25	--	--	--
4	AS&E*	CarView	X-ray scanner for vehicles	--	168.5 x 180.7 x 168	8000.0	Fixed but moveable	Yes	Yes	Yes	X-ray	45	--	400 VAC (+/-10 %), 50 Hz (+/- 3Hz) or 60 Hz (+/- 3 Hz), 3-phase, 5-wire: 4 leads and ground	12
5	AS&E*	Mini Z	Portable Imaging System	--	84.6 x 108.8 x 132.5	9.0	Portable	Yes	Yes	Yes	Backscatter X-ray	--	--	14.4 V, 3.4 A, Lithium Ion Smart Battery, rated to 4 hours	12
6	AS&E*	Sentry Portal	Drive-through cargo inspection	--	120.2 x 324.0 x 228.0	46200.0	Fixed but moveable	Yes	Yes	Yes	7.5 MeV Betatron	45	--	Consumption: 20 KVAI 480 VAC +/- 10%, 60Hz, 3 phase, 5 wire (Y)	12
7	AS&E*	Z Portal Passenger Vehicles	Drive-through vehicle inspection	--	210.0 x 228.4 x 156.5	22000.0	Fixed but moveable	Yes	Yes	Yes	X-ray	45	--	System: 240 VAC, 60/50 Hz, 3 phase, 45 kVA; Operator Console: 120 VAC, 60/50 Hz. 1 phase, 20A or 240 VAC, 60/50 Hz, 1 phase, 10 A	12

#	Vendor	Product Name & Model	Primary Purpose	MSRP	Dimensions (H" x W" x D")	Weight (lbs)	Portability	Metal Detection	Non-Metal Detection	People or Animals Detection	Type of Detector Used	Total Inspection Time (sec/vehicle)	Alert/Alarm Mechanism	Power Requirements	Warranty (months)
8	AS&E*	Z Portal Trucks and Cargo	Drive-through inspection system for trucks, trailers, cargo, etc	--	264.0 x 252.7 x 228.7	27000.0	Fixed but moveable	Yes	Yes	Yes	X-ray	45	--	System: 240 VAC, 60/50 Hz, 3 phase, 45 kVA; Operator Console: 120 VAC, 60/50 Hz, 1 phase, 20 A or 240 VAC, 60/50 Hz, 1 phase, 10 A	12
9	BV Systems*	WolfHound	Handheld cell phone detection	\$2,400	10.0 x 5.5 x 7.5	1.9	Handheld and fixed	--	--	--	Radio frequency continuous wave detector	Instant	Audio/Visual / Vibration	Internal rechargeable battery included	12
10	CSECO*	CT-40 Contraband Team Detection Kit	Search of entire vehicle	\$17,999	24.0 x 20.0 x 10.0	32.0	Handheld	Yes	Yes	Yes	Combination of gamma radiation, CCG video, visual, and physical probes	15-33	--	Battery operated	12
11	Decision Sciences*	MMPDS GEN3	Passive scanning	--	288.0 x 432.0 x 24.0	20000.0	Fixed	Yes	Yes	Yes	Naturally occurring passive charged particle tomography	< 2	Visual	MMPDS requires an estimated 25 kVA of power for a typical installation.	12
12	Med-Eng	Merlin Contraband Detector	Inspects contraband targets for hidden materials	--	--	--	Handheld	--	Yes	Yes	--	--	Audio/Visual	--	--
13	Polimaster	PM1401T	Contraband detector	--	7.3 x 4.0 x 5.0	3.1	Handheld	Yes	Yes	Yes	Backscatter Radiation	--	Audio/Visual /Vibration	1 AA Battery	18
14	SASRAD*	Fiberscope and Videoscope	Provides a high-resolution image of difficult to reach areas	\$4,860 - \$32,931	3.0 x 3.4 x 1.2	1.5	Handheld	Yes	Yes	Yes	Video	--	Visual	Lithium rechargeable batteries, 3.7V 2200mAh 8.14Wh	12

#	Vendor	Product Name & Model	Primary Purpose	MSRP	Dimensions (H" x W" x D")	Weight (lbs)	Portability	Metal Detection	Non-Metal Detection	People or Animals Detection	Type of Detector Used	Total Inspection Time (sec/vehicle)	Alert/Alarm Mechanism	Power Requirements	Warranty (months)
15	SASRAD*	Hitech-Xpose	Handheld density meter designed for the detection of hidden objects or compartments	\$7,600	3.3 x 1.8 x 6.5	1.9	Handheld	Yes	Yes	Yes	Uses Barium 133, exempt quantity	--	Audio	2 AA alkaline batteries	12
16	Security Pro	Magnum Mobile UVIS	Vehicle chassis inspection	--	75.0 x 236.0 x 8.0	--	Mobile	Yes	Yes	Yes	Video Camera	--	--	110-220VAC 4 Amp	--
17	Security Pro	Magnum UVIS	Vehicle chassis inspection	--	28.0 x 157.0 x 8.0	--	Fixed	Yes	Yes	Yes	Video Camera	--	--	110-220VAC 4 Amp	--
18	Security Pro	UVI Video Camera IR013	Under vehicle inspection video camera	--	43.3 x 4.0	3.3	Handheld	Yes	Yes	Yes	Video Camera	--	--	2800 mAh Li battery (110~230 VDC power adapter)	--

Legend	
--	No Info
*	Responded to RFI

Table 5. Cross-Industry Comparison of Environmental-Borne Contraband Detection Technologies

#	Vendor	Product Name & Model	Primary Purpose	MSRP	Dimensions (H" x W" x D")	Weight (lbs)	Portability	Metal Detection	Non-Metal Detection	Detects Cell phones	Type of Detector Used	Avg Time to Generate Alarm (seconds)	Alert/Alarm Mechanism	Power Requirements	Battery Discharge Time (hours)	Warranty (months)
1	Adams Electronics*	AX777	Handheld detection of small contraband	\$750	--	3.0	Handheld	Yes	No	No	Continuous wave technology	0.1	Audio/Visual/Vibration	9 V battery	180-280	24
2	AS&E*	Mini Z	Portable imaging system	--	84.6 x 108.8 x 132.5	9.0	Portable	Yes	Yes	No	Backscatter detection	N/A	N/A	14.4 V, 3.4 A, Lithium Ion Smart Battery	4	12
3	BV Systems*	MantaRay	Cell phone detection	\$599	7.0 x 3.0 x 2.0	0.6	Handheld and fixed	Yes	No	Yes	Passive ferromagnetic detection	N/A	Audio/Visual	9 V battery	3	12
4	BV Systems*	Poskethound	Cell phone detection	\$499	4.3 x 2.8 x 0.8	0.5	Handheld and fixed	No	No	Yes	Radio frequency wave detector	Instant	Visual/Vibration	Internal rechargeable battery included	2-3	12
5	BV Systems*	Wolfhound	Cell phone detection	\$2,400	10.0 x 5.5 x 7.5	1.9	Handheld and fixed	No	No	Yes	Radio frequency continuous wave detector	Instant	Audio/Visual/Vibration	Internal rechargeable battery included	3-4	12
6	CEIA*	EMIS Mail	Letter and parcel inspection	--	10.0 x 22.0 x 8.3	35.0	Fixed	Yes	No	No	IED detector technology	--	Audio/Visual	100-240 V single phase, 50-60 Hz, 1.07 A max, or 6 x 1.2V NiMH size D incorporated batteries	8-12	--
7	CEIA*	EMIS 6047 Package Screening	Automatic contraband detection for non-metallic cargo and packages	--	64.0 x 56.0 x 118.0	1100.0	Fixed	Yes	No	No	Electromagnetic-profile technology	--	Audio/Visual/Automation stops	200-240 V, 50-60 Hz, 11.4 A	N/A	--

#	Vendor	Product Name & Model	Primary Purpose	MSRP	Dimensions (H" x W" x D")	Weight (lbs)	Portability	Metal Detection	Non-Metal Detection	Detects Cell phones	Type of Detector Used	Avg Time to Generate Alarm (seconds)	Alert/Alarm Mechanism	Power Requirements	Battery Discharge Time (hours)	Warranty (months)
8	CEIA*	EMIS 8075 Package Screening	Automatic contraband detection for non-metallic cargo and packages	--	73.0 x 57.0 x 138.0	1550.0	Fixed	Yes	No	No	Electromagnetic-profile technology	--	Audio/Visual/ Automation stops	200-240 V, 50-60 Hz, 11.4 A	--	--
9	CEIA*	EMIS 110160 Pallet Screening	Automatic contraband detection for non-metallic cargo, packages, palletized cargo	--	108.5 x 71.0 x 331.0	8818.0	Fixed	Yes	No	No	Electromagnetic-profile technology	--	Audio/Visual/ Automation stops	200-240 V, 50-60 Hz, 11.4 A	--	--
10	CEIA	EMIS 130160 Pallet Screening	Automatic contraband detection for non-metallic cargo, packages, palletized cargo	--	112.0 x 79.0 x 331.0	11000.0	Fixed	Yes	No	No	Electromagnetic-profile technology	--	Audio/Visual/ Automation stops	200-240 V, 50-60 Hz, 11.4 A	--	--
11	CellSafe*	Cell Hound	Cell phone detection	\$770 - \$1,268	8.5 x 11.3 x 4.1	4.0	Fixed	No	No	Yes	Power detector detects spread-spectrum and frequency hopping transmissions	3	Visual	2.5 W from power-over-ethernet switch	N/A	12
12	ChemImage	Aperio	Portable screening system for chemicals, explosives, narcotics, etc	--	8.3 x 8.0 x 14.0	8.3	Handheld	--	Yes	No	Short-wave infrared hyperspectral imaging sensor	--	--	83 Wh Li-Ion rechargeable battery pack (14.5 W sensor and 28 W lighting)	5	--
13	ChemImage	VeroVision Mail Screener	Detection of illicit substances in mail	--	48 x 22.5 x 23	90.0	Fixed	--	Yes	No	Near infrared (NIR) hyperspectral imaging	--	Visual	100-240 VAC; 50-60Hz	5	--
14	Garrett	CSI Pro	All terrain evidence recovery	\$750 - \$980	43-56 x 5 x 8	2.8	Handheld	Yes	No	No	--	Instant	Audio/Visual	4 AA batteries	5	24

#	Vendor	Product Name & Model	Primary Purpose	MSRP	Dimensions (H" x W" x D")	Weight (lbs)	Portability	Metal Detection	Non-Metal Detection	Detects Cell phones	Type of Detector Used	Avg Time to Generate Alarm (seconds)	Alert/Alarm Mechanism	Power Requirements	Battery Discharge Time (hours)	Warranty (months)
15	Homeland Security Strategies	Cell Detector	Cell phone detection	--	--	--	Handheld	No	No	Yes	Radio frequency measurement	--	Audio/Visual	220-240 VAC; 7.2 VDC; 1000mA/h	5	--
16	Med-Eng	Merlin Contraband Detector	Inspects contraband targets for hidden materials	--	--	--	Handheld	Yes	Yes	No	--	--	Audio/Visual	--	--	--
17	Polimaster	PM1401T	Handheld contraband detector	--	7.3 x 4.0 x 5.0	3.1	Handheld	Yes	Yes	No	Backscatter Radiation	--	Audio/Visual/Vibration	1 AA Battery	1000	18
18	Ranger Security	MediScan	System scans laundry, trash bags, and parcels for contraband	\$3,900	34.5 x 30.5 diameter	50.0	Portable	Yes	No	No	--	--	Audio/Visual	110/220 VAC	N/A	24
19	REI*	Orion	Detects hidden electronic contraband	\$14,300 - \$16,650	22.4 x 3.8 x 3	2.8	Handheld	No	Yes	Yes	Nonlinear junction detection	0.1	Audio/Visual/Vibration	battery charger operates on 100-240 V, 50-60 Hz; lithium battery	8	12
20	SASRAD*	Fiberscope and Videoscope	Provides a high-resolution image of difficult to reach areas	\$4,860 - \$32,931	3.0 x 3.4 x 1.2	1.5	Handheld	Yes	Yes	No	Visual picture	Real time	Visual	Lithium rechargeable batteries, 3.7V 2200mAh 8.14Wh	4	12
21	SASRAD*	Hiitech-Xpose	Handheld density meter designed for the detection of hidden objects or compartments	\$7,600	3.3 x 1.8 x 6.5	1.9	Handheld	Yes	Yes	No	Uses Barium 133, exempt quantity	0.25	Audio	2 AA batteries	40	12

#	Vendor	Product Name & Model	Primary Purpose	MSRP	Dimensions (H" x W" x D")	Weight (lbs)	Portability	Metal Detection	Non-Metal Detection	Detects Cell phones	Type of Detector Used	Avg Time to Generate Alarm (seconds)	Alert/Alarm Mechanism	Power Requirements	Battery Discharge Time (hours)	Warranty (months)
22	Vidisco*	BoltX	Portable X-ray system (not to be used on people)	\$44,000 - \$52,000	7.6 x 4.9 x 1.3	3.3	Portable	Yes	Yes	No	X-ray	--	Visual Image	110/220 V, 12 V via Car AC/DC power inverter	5	24
23	Vidisco*	FlashX	Portable X-ray system (not to be used on people)	\$69,000 - \$121,000	18.3 x 19.2 x 1.0	10.6	Portable	Yes	Yes		X-ray	--	Visual image	110/220 V, 12 V via Car AC/DC power inverter	5	24
24	Vidisco*	FoXraylle VCU-10e	Portable X-ray system (not to be used on people)	\$16,000 - \$19,000	14.9 x 10.2 x 5.5	12.2	Portable	Yes	Yes	No	CCD immediate image capture, no moving parts, no scanning	--	--	110/220 V, 12 V via Car AC/DC power inverter	5	24
25	Vidisco*	FoXraylle VCU-16e	Portable X-ray system (not to be used on people)	\$19,000 - \$20,000	22.0 x 16.0 x 8.2	23.8	Portable	Yes	Yes	No	CCD immediate image capture, no moving parts, no scanning	--	--	110/220 V, 12 V via Car AC/DC power inverter	5	24
26	Vidisco*	RayzorX	Portable X-ray system (not to be used on people)	\$65,000 - \$72,000	14.2 x 13.0 x 0.5	7.7	Portable	Yes	Yes	No	Amorphous Silicon (a-Si) Digital Detector Array (DDA) flat panel imager	--	--	110/220 V, 12 V via Car AC/DC power inverter	5	24
27	Vidisco*	SparX	Portable X-ray system (not to be used on people)	\$53,000 - \$58,000	15.5 x 12.6 x 0.7	7.3	Portable	Yes	Yes	No	Amorphous Si Gadox	--	--	110/220 V, 12 V via Car AC/DC power inverter	5	24

Legend	
--	No Info
*	Responded to RFI

4.2 Discussion of the Market Survey Data

The tables in Section 5 contain information provided by individual vendors for each product. The information was reproduced either from their responses to the RFI, or from information provided on their websites. For many categories, little information was available. Several questions from the RFI were not been included due to a lack of vendor responses. The reader is encouraged to contact the vendors directly for specifics about their products.

While some vendors did not provide all of the desired information for their products, when it was available, information provided fell within these ranges.

For person-borne detection systems:

- MSRP from \$148 to \$107,000
- Weight from 0.3 to 3000 lbs
- Battery discharge time from 2 to 360 hrs
- Warranty length from 12 to 48 months

For vehicle-borne detection systems:

- MSRP from \$2400 to \$32,931
- Weight from 1.5 to 46,200 lbs
- Total inspection time from <2 to 45 seconds/vehicle
- Warranty length from 12 to 18 months

For environmental detection systems:

- MSRP from \$499 to \$121,000
- Weight from 0.5 to 11,000 lbs
- Battery discharge time from 2 to 1000 hrs
- Warranty length from 12 to 24 months

5. CONTRABAND DETECTION TECHNOLOGIES

5.1 Adams Electronics AD10-2



Figure 1. Adams Electronics AD10-2

Person-Borne

RFI Q.#	Survey Question (abbreviated)	Response
Vendor Information		
0	Responded to FRN?	Yes
1.a	Name	Adams Electronics, Inc.
1.b	Address/phone number	1611 South Utica Ave., PMB 408, Tulsa, OK 74104
1.c	Website	www.adamsmetaldetection.com
1.d	Years in business	21 years
1.e	Number and types of customers	State, local, and federal corrections nationwide
1.f	Manufacturing location(s)	United Kingdom

RFI Q.#	Survey Question (abbreviated)	Response
Product Information – Person-borne Contraband Detection		
2.a	Name and model number	Person-Bourne Contraband Detection Model AD10-2
2.b	Primary product purpose	Detection and location of general sized threat objects and/or contraband
2.c	Physical dims (HxWxD, inches)	14.0” H x 2.2” W x 1.2” D
2.d	Operational dims (detection area)	No information provided
2.e	Weight (lbs)	0.57 lbs

2.f	Portability (e.g., fixed, handheld)	Handheld
2.g	Intended environment (e.g., indoor)	Indoor and outdoor
2.h	Operation conditions/limitations	Operating Temperature: -20°C to 65°C (-4 to 149 °F) Humidity: 0-98%
2.i	Ability to detect metal objects	Yes
2.i.i	Types of metals detected	Ferrous and non-ferrous
2.i.ii	Types of metals NOT detected	None known
2.j	Ability to detect non-metal objects	No
2.j.i	Types of non-metals detected	N/A
2.k	Ability to detect in body cavities	Device suitable to detect medium to larger objects concealed in body cavities.
2.k.i	Types of body cavities penetrable	Oral, vaginal, and anal
2.l	Ability to detect other contraband	Device detects metal objects only
2.m	Modes of operation	Multi-mode
2.n	Number of detection areas	No information provided
2.o	Type of detector used	The system uses continuous waves (CW) technology.
2.p	Minimum object size detectable	0.1 grams detection mass
2.p.i	Size on a person	See sensitivity chart
2.p.ii	Size in a body cavity	See sensitivity chart
2.q	Total inspection time (sec/person)	Standard frisk time is 20 sec/person
2.r	Penetration depth (inches)	Penetration depth is dependent upon the size of metal object to be detected. (See sensitivity chart)
2.s	Alert/alarm mechanism	AD10-2: Audio/visual
2.t	Average time to gen. alarm	0.1 seconds
2.u	Privacy safeguards/features	N/A
2.v	Number of rec. operators	One device, one operator
2.w	Tampering safeguards	N/A
2.x	Sturdiness/fragility of material	Injection molded ABS plastic, extremely rugged
2.y	Ease of storage	Holster supplied, storage is minimal
2.z	Data management	N/A
2.aa	Onboard memory storage	N/A
2.bb	Power requirements	9 volt battery, standard or rechargeable
2.cc	Battery discharge time	280 hours – Audio/visual mode
2.dd	Battery shelf life (months)	No information provided
2.ee	Battery recharge time (hours)	1 hour
2.ff	Battery replacement procedure	In field, standard Phillip's head screwdriver
2.gg	Supplemental charger options	N/A
2.hh	Safety compliances	NIJ Compliance standard 0602.02, CE Mark to EEC EN5008-1 Table 1. EN50082-1 Table 1:1.1, FCC, IEC and FAA Compliant. Medically tested and approved – No risk to persons with pacemakers. Non-interference to magnetic recorded material.
2.ii	Radiation safety standards	N/A
2.jj	Length of warranty (months)	24 months
2.kk	Auxiliary equipment	Holster/carry case optional
2.ll	Manufacturer suggested retail price	\$150
2.mm	Extended maintenance plans	N/A
2.nn	Service contract costs	N/A
2.oo	Other information	<ul style="list-style-type: none"> Operational frequency 20Khz Audio frequency 3.4Khz, IP64

RFI Q.#	Survey Question (abbreviated)	Response
Usability/Training		
5.a	Usability validation processes	N/A
5.b	User community data	N/A
5.c	User-group meetings and frequency	N/A
5.d	Typical problems reported	N/A
5.d.i	Resolution to problems	Not needed
5.e	Hours of tech. support and location	N/A
5.f	Calibration requirements	N/A
5.g	Training provided (hours)	Web-based training and instruction manuals

RFI Q.#	Survey Question (abbreviated)	Response
Features and Functions		
6.a	Types of formalize reports	N/A
6.b	Types of on-demand reports	N/A

RFI Q.#	Survey Question (abbreviated)	Response
Performance and Security		
7.a	Average installation time	1-2 minutes
7.b	False positive / false negative rates	Being a hand held device and not an installation type product, most observation of false positive/false negatives are attributable to the operator of the device
7.c	Mean time to failure	None observed
7.d	Percent downtime	N/A
7.e	Data protection mechanisms	N/A
7.f	Database record management	N/A

5.2 Adams Electronics AD11-2



Figure 2. Adams Electronics AD11-2

Person-Borne

RFI Q.#	Survey Question (abbreviated)	Response
Vendor Information		
0	Responded to FRN?	Yes
1.a	Name	Adams Electronics, Inc.
1.b	Address/phone number	1611 South Utica Ave., PMB 408, Tulsa, OK 74104
1.c	Website	www.adamsmetaldetection.com
1.d	Years in business	21 years
1.e	Number and types of customers	State, local, and federal corrections nationwide
1.f	Manufacturing location(s)	United Kingdom

RFI Q.#	Survey Question (abbreviated)	Response
Product Information – Person-borne Contraband Detection		
2.a	Name and model number	Person-Bourne Contraband Detection Model AD11-2
2.b	Primary product purpose	Detection and location of general sized threat objects and/or contraband
2.c	Physical dims (HxWxD, inches)	14.0" H x 2.2" W x 1.2" D
2.d	Operational dims (detection area)	No information provided
2.e	Weight (lbs)	0.57 lbs
2.f	Portability (e.g., fixed, handheld)	Handheld
2.g	Intended environment (e.g., indoor)	Indoor and outdoor
2.h	Operation conditions/limitations	Operating Temperature: -20°C to 65°C (-4 to 149 °F) Humidity: 0-98%

2.i	Ability to detect metal objects	Yes
2.i.i	Types of metals detected	Ferrous and non-ferrous
2.i.ii	Types of metals NOT detected	None known
2.j	Ability to detect non-metal objects	No
2.j.i	Types of non-metals detected	N/A
2.k	Ability to detect in body cavities	Device suitable to detect medium to larger objects concealed in body cavities.
2.k.i	Types of body cavities penetrable	Oral, vaginal, and anal
2.l	Ability to detect other contraband	Device detects metal objects only
2.m	Modes of operation	Multi-mode
2.n	Number of detection areas	No information provided
2.o	Type of detector used	The system uses continuous waves (CW) technology.
2.p	Minimum object size detectable	0.1 grams
2.p.i	Size on a person	See sensitivity chart
2.p.ii	Size in a body cavity	See sensitivity chart
2.q	Total inspection time (sec/person)	Standard frisk time is 20 sec/person
2.r	Penetration depth (inches)	Penetration depth is dependent upon the size of metal object to be detected. (See sensitivity chart)
2.s	Alert/alarm mechanism	AD11-2: Audio/visual or silent visual only
2.t	Average time to gen. alarm	0.1 seconds
2.u	Privacy safeguards/features	N/A
2.v	Number of rec. operators	One device, one operator
2.w	Tampering safeguards	N/A
2.x	Sturdiness/fragility of material	Injection molded ABS plastic, extremely rugged
2.y	Ease of storage	Holster supplied, storage is minimal
2.z	Data management	N/A
2.aa	Onboard memory storage	N/A
2.bb	Power requirements	9 volt battery, standard or rechargeable
2.cc	Battery discharge time	280 hours – Audio/visual mode
2.dd	Battery shelf life (months)	No information provided
2.ee	Battery recharge time (hours)	1 hour
2.ff	Battery replacement procedure	In field, standard Phillip’s head screwdriver
2.gg	Supplemental charger options	N/A
2.hh	Safety compliances	NIJ Compliance Standard 0602.02, CE Mark to EEC EN5008-1 Table 1. EN50082-1 Table 1:1.1, FCC, IEC and FAA Compliant. Medically tested and approved – No risk to persons with pacemakers. Non-interference to magnetic recorded material.
2.ii	Radiation safety standards	N/A
2.jj	Length of warranty (months)	24 months
2.kk	Auxiliary equipment	Holster/carry case optional
2.ll	Manufacturer suggested retail price	\$200
2.mm	Extended maintenance plans	N/A
2.nn	Service contract costs	N/A
2.oo	Other information	<ul style="list-style-type: none"> Operational frequency 20Khz Audio frequency 3.4Khz, IP64

RFI Q.#	Survey Question (abbreviated)	Response
Usability/Training		
5.a	Usability validation processes	N/A
5.b	User community data	N/A

5.c	User-group meetings and frequency	N/A
5.d	Typical problems reported	N/A
5.d.i	Resolution to problems	Not needed
5.e	Hours of tech. support and location	N/A
5.f	Calibration requirements	N/A
5.g	Training provided (hours)	Web-based training and instruction manuals

RFI Q.#	Survey Question (abbreviated)	Response
Features and Functions		
6.a	Types of formalize reports	N/A
6.b	Types of on-demand reports	N/A

RFI Q.#	Survey Question (abbreviated)	Response
Performance and Security		
7.a	Average installation time	1-2 minutes
7.b	False positive / false negative rates	Being a hand held device and not an installation type product, most observation of false positive/false negatives are attributable to the operator of the device
7.c	Mean time to failure	None observed
7.d	Percent downtime	N/A
7.e	Data protection mechanisms	N/A
7.f	Database record management	N/A

5.3 Adams Electronics AD11V



Figure 3. Adams Electronics AD11V

Person-Borne

RFI Q.#	Survey Question (abbreviated)	Response
Vendor Information		
0	Responded to FRN?	Yes
1.a	Name	Adams Electronics, Inc.
1.b	Address/phone number	1611 South Utica Ave., PMB 408, Tulsa, OK 74104
1.c	Website	www.adamsmetaldetection.com
1.d	Years in business	21 years
1.e	Number and types of customers	State, local, and federal corrections nationwide
1.f	Manufacturing location(s)	United Kingdom

RFI Q.#	Survey Question (abbreviated)	Response
Product Information – Person-borne Contraband Detection		
2.a	Name and model number	Person-Bourne Contraband Detection Model AD11V
2.b	Primary product purpose	Detection and location of general sized threat objects and/or contraband
2.c	Physical dims (HxWxD, inches)	14.0” H x 2.2” W x 1.2” D
2.d	Operational dims (detection area)	No information provided
2.e	Weight (lbs)	0.57 lbs
2.f	Portability (e.g., fixed, handheld)	Handheld
2.g	Intended environment (e.g., indoor)	Indoor and outdoor
2.h	Operation conditions/limitations	Operating Temperature: -20°C to 65°C (-4 to 149 °F)

		Humidity: 0-98%
2.i	Ability to detect metal objects	Yes
2.i.i	Types of metals detected	Ferrous and non-ferrous
2.i.ii	Types of metals NOT detected	None known
2.j	Ability to detect non-metal objects	No
2.j.i	Types of non-metals detected	N/A
2.k	Ability to detect in body cavities	Device suitable to detect medium to larger objects concealed in body cavities.
2.k.i	Types of body cavities penetrable	Oral, vaginal, and anal
2.l	Ability to detect other contraband	Device detects metal objects only
2.m	Modes of operation	Multi-mode
2.n	Number of detection areas	No information provided
2.o	Type of detector used	The system uses continuous waves (CW) technology.
2.p	Minimum object size detectable	0.1 grams
2.p.i	Size on a person	See sensitivity chart
2.p.ii	Size in a body cavity	See sensitivity chart
2.q	Total inspection time (sec/person)	Standard frisk time is 20 sec/person
2.r	Penetration depth (inches)	Penetration depth is dependent upon the size of metal object to be detected. (See sensitivity chart)
2.s	Alert/alarm mechanism	AD11V: Audio/visual or vibration only
2.t	Average time to gen. alarm	0.1 seconds
2.u	Privacy safeguards/features	N/A
2.v	Number of rec. operators	One device, one operator
2.w	Tampering safeguards	N/A
2.x	Sturdiness/fragility of material	Injection molded ABS plastic, extremely rugged
2.y	Ease of storage	Holster supplied, storage is minimal
2.z	Data management	N/A
2.aa	Onboard memory storage	N/A
2.bb	Power requirements	9 volt battery, standard or rechargeable
2.cc	Battery discharge time	280 hours – Audio/visual mode, 100 hours – vibration mode
2.dd	Battery shelf life (months)	No information provided
2.ee	Battery recharge time (hours)	1 hour
2.ff	Battery replacement procedure	In field, standard Phillip's head screwdriver
2.gg	Supplemental charger options	N/A
2.hh	Safety compliances	NIJ Compliance Standard 0602.02, CE Mark to EEC EN5008-1 Table 1. EN50082-1 Table 1:1.1, FCC, IEC and FAA Compliant. Medically tested and approved – No risk to persons with pacemakers. Non-interference to magnetic recorded material.
2.ii	Radiation safety standards	N/A
2.jj	Length of warranty (months)	24 months
2.kk	Auxiliary equipment	Holster/carry case optional
2.ll	Manufacturer suggested retail price	\$200
2.mm	Extended maintenance plans	N/A
2.nn	Service contract costs	N/A
2.oo	Other information	<ul style="list-style-type: none"> Operational frequency 20Khz Audio frequency 3.4Khz, IP64

RFI Q.#	Survey Question (abbreviated)	Response
Usability/Training		
5.a	Usability validation processes	N/A
5.b	User community data	N/A
5.c	User-group meetings and frequency	N/A
5.d	Typical problems reported	N/A
5.d.i	Resolution to problems	Not needed
5.e	Hours of tech. support and location	N/A
5.f	Calibration requirements	N/A
5.g	Training provided (hours)	Web-based training and instruction manuals

RFI Q.#	Survey Question (abbreviated)	Response
Features and Functions		
6.a	Types of formalize reports	N/A
6.b	Types of on-demand reports	N/A

RFI Q.#	Survey Question (abbreviated)	Response
Performance and Security		
7.a	Average installation time	1-2 minutes
7.b	False positive / false negative rates	Being a hand held device and not an installation type product, most observation of false positive/false negatives are attributable to the operator of the device
7.c	Mean time to failure	None observed
7.d	Percent downtime	N/A
7.e	Data protection mechanisms	N/A
7.f	Database record management	N/A

5.4 Adams Electronics AD15



Figure 4. Adams Electronics AD15

Person-Borne

RFI Q.#	Survey Question (abbreviated)	Response
Vendor Information		
0	Responded to FRN?	Yes
1.a	Name	Adams Electronics, Inc.
1.b	Address/phone number	1611 South Utica Ave., PMB 408, Tulsa, OK 74104
1.c	Website	www.adamsmetaldetection.com
1.d	Years in business	21 years
1.e	Number and types of customers	State, local, and federal corrections nationwide
1.f	Manufacturing location(s)	United Kingdom

RFI Q.#	Survey Question (abbreviated)	Response
Product Information – Person-borne Contraband Detection		
2.a	Name and model number	Model AD15
2.b	Primary product purpose	Detection and location of small threat objects and/or contraband
2.c	Physical dims (HxWxD, inches)	14.2" H x 4.1" W x 2.1" D
2.d	Operational dims (detection area)	No information provided
2.e	Weight (lbs)	0.6 lbs
2.f	Portability (e.g., fixed, handheld)	Handheld
2.g	Intended environment (e.g., indoor)	Indoor and outdoor
2.h	Operation conditions/limitations	Operating Temperature: -20°C to 65°C (-4 to 149 °F) Humidity: 0-98%

2.i	Ability to detect metal objects	Yes
2.i.i	Types of metals detected	Ferrous and non-ferrous
2.i.ii	Types of metals NOT detected	None known
2.j	Ability to detect non-metal objects	No
2.j.i	Types of non-metals detected	N/A
2.k	Ability to detect in body cavities	Device suitable to detect small to medium objects concealed in body cavities.
2.k.i	Types of body cavities penetrable	Oral, vaginal, and anal
2.l	Ability to detect other contraband	Device detects metal objects only
2.m	Modes of operation	Multi-mode
2.n	Number of detection areas	No information provided
2.o	Type of detector used	The system uses continuous waves (CW) technology.
2.p	Minimum object size detectable	See sensitivity chart
2.p.i	Size on a person	See sensitivity chart
2.p.ii	Size in a body cavity	See sensitivity chart
2.q	Total inspection time (sec/person)	Standard frisk time is 20 sec/person
2.r	Penetration depth (inches)	Penetration depth is dependent upon the size of metal object to be detected. (See sensitivity chart)
2.s	Alert/alarm mechanism	Audio/visual, fully adjustable, turbo control, high/rebar eliminated
2.t	Average time to gen. alarm	0.1 seconds
2.u	Privacy safeguards/features	N/A
2.v	Number of rec. operators	One device, one operator
2.w	Tampering safeguards	N/A
2.x	Sturdiness/fragility of material	Injection molded polycarbonate plastic, extremely rugged
2.y	Ease of storage	Holster supplied, storage is minimal
2.z	Data management	N/A
2.aa	Onboard memory storage	N/A
2.bb	Power requirements	9 volt battery, standard or rechargeable
2.cc	Battery discharge time	280 hours – Audio/visual mode
2.dd	Battery shelf life (months)	No information provided
2.ee	Battery recharge time (hours)	1 hour
2.ff	Battery replacement procedure	In field, standard Phillip's head screwdriver
2.gg	Supplemental charger options	N/A
2.hh	Safety compliances	NIJ Compliance Standard 0602.02, CE Mark to EEC EN5008-1 Table 1. EN50082-1 Table 1:1.1, FCC, IEC and FAA Compliant. Medically tested and approved – No risk to persons with pacemakers. Non-interference to magnetic recorded material.
2.ii	Radiation safety standards	N/A
2.jj	Length of warranty (months)	24 months
2.kk	Auxiliary equipment	Holster/carry case optional
2.ll	Manufacturer suggested retail price	\$375
2.mm	Extended maintenance plans	N/A
2.nn	Service contract costs	N/A
2.oo	Other information	<ul style="list-style-type: none"> Operational frequency 20Khz Audio frequency 3.4Khz, IP64

RFI Q.#	Survey Question (abbreviated)	Response
Usability/Training		
5.a	Usability validation processes	N/A

5.b	User community data	N/A
5.c	User-group meetings and frequency	N/A
5.d	Typical problems reported	N/A
5.d.i	Resolution to problems	Not needed
5.e	Hours of tech. support and location	N/A
5.f	Calibration requirements	N/A
5.g	Training provided (hours)	Web-based training and instruction manuals

RFI Q.#	Survey Question (abbreviated)	Response
Features and Functions		
6.a	Types of formalize reports	N/A
6.b	Types of on-demand reports	N/A

RFI Q.#	Survey Question (abbreviated)	Response
Performance and Security		
7.a	Average installation time	1-2 minutes
7.b	False positive / false negative rates	Being a hand held device and not an installation type product, most observation of false positive/false negatives are attributable to the operator of the device
7.c	Mean time to failure	None observed
7.d	Percent downtime	N/A
7.e	Data protection mechanisms	N/A
7.f	Database record management	N/A

5.5 Adams Electronics AD16



Figure 5. Adams Electronics AD16

Person-Borne

RFI Q.#	Survey Question (abbreviated)	Response
Vendor Information		
0	Responded to FRN?	Yes
1.a	Name	Adams Electronics, Inc.
1.b	Address/phone number	1611 South Utica Ave., PMB 408, Tulsa, OK 74104
1.c	Website	www.adamsmetaldetection.com
1.d	Years in business	21 years
1.e	Number and types of customers	State, local, and federal corrections nationwide
1.f	Manufacturing location(s)	United Kingdom

RFI Q.#	Survey Question (abbreviated)	Response
Product Information – Person-borne Contraband Detection		
2.a	Name and model number	Model AD16
2.b	Primary product purpose	Detection and location of medium to large threat objects and/or contraband
2.c	Physical dims (HxWxD, inches)	14.2" H x 4.1" W x 2.1" D
2.d	Operational dims (detection area)	No information provided
2.e	Weight (lbs)	0.6 lbs
2.f	Portability (e.g., fixed, handheld)	Handheld
2.g	Intended environment (e.g., indoor)	Indoor and outdoor
2.h	Operation conditions/limitations	Operating Temperature: -20°C to 65°C (-4 to 149 °F) Humidity: 0-98%
2.i	Ability to detect metal objects	Yes

2.i.i	Types of metals detected	Ferrous and non-ferrous
2.i.ii	Types of metals NOT detected	None known
2.j	Ability to detect non-metal objects	No
2.j.i	Types of non-metals detected	N/A
2.k	Ability to detect in body cavities	Device suitable to detect medium to large objects concealed in body cavities.
2.k.i	Types of body cavities penetrable	Oral, vaginal, and anal
2.l	Ability to detect other contraband	Device detects metal objects only
2.m	Modes of operation	Multi-mode
2.n	Number of detection areas	No information provided
2.o	Type of detector used	The system uses continuous waves (CW) technology.
2.p	Minimum object size detectable	See sensitivity chart
2.p.i	Size on a person	See sensitivity chart
2.p.ii	Size in a body cavity	See sensitivity chart
2.q	Total inspection time (sec/person)	Standard frisk time is 20 sec/person
2.r	Penetration depth (inches)	Penetration depth is dependent upon the size of metal object to be detected. (See sensitivity chart)
2.s	Alert/alarm mechanism	Audio/visual
2.t	Average time to gen. alarm	0.1 seconds
2.u	Privacy safeguards/features	N/A
2.v	Number of rec. operators	One device, one operator
2.w	Tampering safeguards	N/A
2.x	Sturdiness/fragility of material	Injection molded polycarbonate nylon plastic, extremely rugged
2.y	Ease of storage	Holster supplied, storage is minimal
2.z	Data management	N/A
2.aa	Onboard memory storage	N/A
2.bb	Power requirements	9 volt battery, standard or rechargeable
2.cc	Battery discharge time	280 hours – Audio/visual mode
2.dd	Battery shelf life (months)	No information provided
2.ee	Battery recharge time (hours)	1 hour
2.ff	Battery replacement procedure	In field, standard Phillip's head screwdriver
2.gg	Supplemental charger options	N/A
2.hh	Safety compliances	NIJ Compliance Standard 0602.02, CE Mark to EEC EN5008-1 Table 1. EN50082-1 Table 1:1.1, FCC, IEC and FAA Compliant. Medically tested and approved – No risk to persons with pacemakers. Non-interference to magnetic recorded material.
2.ii	Radiation safety standards	N/A
2.jj	Length of warranty (months)	24 months
2.kk	Auxiliary equipment	Holster/carry case optional
2.ll	Manufacturer suggested retail price	\$300
2.mm	Extended maintenance plans	N/A
2.nn	Service contract costs	N/A
2.oo	Other information	<ul style="list-style-type: none"> Operational frequency 20Khz Audio frequency 3.4Khz, IP64

RFI Q.#	Survey Question (abbreviated)	Response
Usability/Training		
5.a	Usability validation processes	N/A
5.b	User community data	N/A

5.c	User-group meetings and frequency	N/A
5.d	Typical problems reported	N/A
5.d.i	Resolution to problems	Not needed
5.e	Hours of tech. support and location	N/A
5.f	Calibration requirements	N/A
5.g	Training provided (hours)	Web-based training and instruction manuals

RFI Q.#	Survey Question (abbreviated)	Response
Features and Functions		
6.a	Types of formalize reports	N/A
6.b	Types of on-demand reports	N/A

RFI Q.#	Survey Question (abbreviated)	Response
Performance and Security		
7.a	Average installation time	1-2 minutes
7.b	False positive / false negative rates	Being a hand held device and not an installation type product, most observation of false positive/false negatives are attributable to the operator of the device
7.c	Mean time to failure	None observed
7.d	Percent downtime	N/A
7.e	Data protection mechanisms	N/A
7.f	Database record management	N/A

5.6 Adams Electronics AD360



Figure 6. Adams Electronics AD360

Person-Borne

RFI Q.#	Survey Question (abbreviated)	Response
Vendor Information		
0	Responded to FRN?	Yes
1.a	Name	Adams Electronics, Inc.
1.b	Address/phone number	1611 South Utica Ave., PMB 408, Tulsa, OK 74104
1.c	Website	www.adamsmetaldetection.com
1.d	Years in business	21 years
1.e	Number and types of customers	State, local, and federal corrections nationwide
1.f	Manufacturing location(s)	United Kingdom

RFI Q.#	Survey Question (abbreviated)	Response
Product Information – Person-borne Contraband Detection		
2.a	Name and model number	Model AD360
2.b	Primary product purpose	Detection and location of general sized threat objects and/or contraband
2.c	Physical dims (HxWxD, inches)	Length 9.3", Diameter: Probe end: 0.98", Handle End: 1.73"
2.d	Operational dims (detection area)	No information provided
2.e	Weight (lbs)	0.48 lbs
2.f	Portability (e.g., fixed, handheld)	Handheld
2.g	Intended environment (e.g., indoor)	Indoor and outdoor

2.h	Operation conditions/limitations	Operating Temperature: -20°C to 65°C (-4 to 149 °F) Humidity: 0-98%
2.i	Ability to detect metal objects	Yes
2.i.i	Types of metals detected	Ferrous and non-ferrous
2.i.ii	Types of metals NOT detected	None known
2.j	Ability to detect non-metal objects	No
2.j.i	Types of non-metals detected	N/A
2.k	Ability to detect in body cavities	No information provided
2.k.i	Types of body cavities penetrable	N/A
2.l	Ability to detect other contraband	Device detects metal objects only
2.m	Modes of operation	No information provided
2.n	Number of detection areas	No information provided
2.o	Type of detector used	The system uses continuous waves (CW) technology.
2.p	Minimum object size detectable	See sensitivity chart
2.p.i	Size on a person	See sensitivity chart
2.p.ii	Size in a body cavity	See sensitivity chart
2.q	Total inspection time (sec/person)	Standard frisk time is 20 sec/person
2.r	Penetration depth (inches)	Penetration depth is dependent upon the size of metal object to be detected. (See sensitivity chart)
2.s	Alert/alarm mechanism	Vibration alarm in handle
2.t	Average time to gen. alarm	0.1 seconds
2.u	Privacy safeguards/features	N/A
2.v	Number of rec. operators	One device, one operator
2.w	Tampering safeguards	N/A
2.x	Sturdiness/fragility of material	Injection molded high impact ABS plastic, rubberized handle grip
2.y	Ease of storage	Holster supplied, storage is minimal
2.z	Data management	N/A
2.aa	Onboard memory storage	N/A
2.bb	Power requirements	9 volt battery, standard or rechargeable
2.cc	Battery discharge time	100 hours – vibration mode
2.dd	Battery shelf life (months)	No information provided
2.ee	Battery recharge time (hours)	1 hour
2.ff	Battery replacement procedure	In field, no tools required to change battery, screw cap
2.gg	Supplemental charger options	N/A
2.hh	Safety compliances	NIJ Compliance Standard 0602.02, CE Mark to EEC EN5008-1 Table 1. EN50082-1 Table 1:1.1, FCC, IEC and FAA Compliant. Medically tested and approved – No risk to persons with pacemakers. Non-interference to magnetic recorded material.
2.ii	Radiation safety standards	N/A
2.jj	Length of warranty (months)	24 months
2.kk	Auxiliary equipment	<ul style="list-style-type: none"> • Fits in pocket • Single on/off button
2.ll	Manufacturer suggested retail price	\$148
2.mm	Extended maintenance plans	N/A
2.nn	Service contract costs	N/A
2.oo	Other information	<ul style="list-style-type: none"> • Operational frequency 20Khz • Audio frequency 3.4Khz, IP66

RFI Q.#	Survey Question (abbreviated)	Response
Usability/Training		
5.a	Usability validation processes	N/A
5.b	User community data	N/A
5.c	User-group meetings and frequency	N/A
5.d	Typical problems reported	N/A
5.d.i	Resolution to problems	Not needed
5.e	Hours of tech. support and location	N/A
5.f	Calibration requirements	N/A
5.g	Training provided (hours)	Web-based training and instruction manuals

RFI Q.#	Survey Question (abbreviated)	Response
Features and Functions		
6.a	Types of formalize reports	N/A
6.b	Types of on-demand reports	N/A

RFI Q.#	Survey Question (abbreviated)	Response
Performance and Security		
7.a	Average installation time	1-2 minutes
7.b	False positive / false negative rates	Being a hand held device and not an installation type product, most observation of false positive/false negatives are attributable to the operator of the device
7.c	Mean time to failure	None observed
7.d	Percent downtime	N/A
7.e	Data protection mechanisms	N/A
7.f	Database record management	N/A

5.7 Adams Electronics AD2300



Figure 7. Adams Electronics AD2300

Person-Borne

RFI Q.#	Survey Question (abbreviated)	Response
Vendor Information		
0	Responded to FRN?	Yes
1.a	Name	Adams Electronics, Inc.
1.b	Address/phone number	1611 South Utica Ave., PMB 408, Tulsa, OK 74104
1.c	Website	www.adamsmetaldetection.com www.adamsinc.com
1.d	Years in business	21 years
1.e	Number and types of customers	State, local, and federal corrections nationwide
1.f	Manufacturing location(s)	United Kingdom

RFI Q.#	Survey Question (abbreviated)	Response
Product Information – Person-borne Contraband Detection		
2.a	Name and model number	Model AD2300
2.b	Primary product purpose	Detection and location of very small threat objects and/or contraband
2.c	Physical dims (HxWxD, inches)	14.2” H x 2.1” W x 1.3” D
2.d	Operational dims (detection area)	No information provided
2.e	Weight (lbs)	0.6 lbs including battery
2.f	Portability (e.g., fixed, handheld)	Handheld
2.g	Intended environment (e.g., indoor)	Indoor and outdoor
2.h	Operation conditions/limitations	Operating Temperature: -20°C to 65°C (-4 to 149 °F) Humidity: 0-98%

2.i	Ability to detect metal objects	Yes
2.i.i	Types of metals detected	Ferrous and non-ferrous
2.i.ii	Types of metals NOT detected	None known
2.j	Ability to detect non-metal objects	No
2.j.i	Types of non-metals detected	N/A
2.k	Ability to detect in body cavities	Device suitable to detect very small objects concealed in body cavities
2.k.i	Types of body cavities penetrable	Oral, vaginal, and anal
2.l	Ability to detect other contraband	Device detects metal objects only
2.m	Modes of operation	N/A
2.n	Number of detection areas	No information provided
2.o	Type of detector used	The system uses continuous waves (CW) technology.
2.p	Minimum object size detectable	See sensitivity chart
2.p.i	Size on a person	See sensitivity chart
2.p.ii	Size in a body cavity	See sensitivity chart
2.q	Total inspection time (sec/person)	Standard frisk time is 20 sec/person
2.r	Penetration depth (inches)	Penetration depth is dependent upon the size of metal object to be detected. (See sensitivity chart)
2.s	Alert/alarm mechanism	Audio/visual only
2.t	Average time to gen. alarm	0.1 seconds
2.u	Privacy safeguards/features	N/A
2.v	Number of rec. operators	One device, one operator
2.w	Tampering safeguards	N/A
2.x	Sturdiness/fragility of material	Injection molded polycarbonate nylon plastic, extremely rugged
2.y	Ease of storage	Holster supplied, storage is minimal
2.z	Data management	N/A
2.aa	Onboard memory storage	N/A
2.bb	Power requirements	9 volt battery, standard or rechargeable
2.cc	Battery discharge time	360 hours – audio/visual mode
2.dd	Battery shelf life (months)	No information provided
2.ee	Battery recharge time (hours)	1 hour
2.ff	Battery replacement procedure	In field, standard Phillip's head screwdriver
2.gg	Supplemental charger options	N/A
2.hh	Safety compliances	NIJ Compliance Standard 0602.02, CE Mark to EEC EN5008-1 Table 1. EN50082-1 Table 1:1.1, FCC, IEC and FAA Compliant. Medically tested and approved – No risk to persons with pacemakers. Non-interference to magnetic recorded material.
2.ii	Radiation safety standards	N/A
2.jj	Length of warranty (months)	36 months
2.kk	Auxiliary equipment	Holster/carry case optional
2.ll	Manufacturer suggested retail price	\$400
2.mm	Extended maintenance plans	N/A
2.nn	Service contract costs	N/A
2.oo	Other information	<ul style="list-style-type: none"> Operational frequency 20Khz Audio frequency 3.4Khz, IP64

RFI Q.#	Survey Question (abbreviated)	Response
Usability/Training		
5.a	Usability validation processes	N/A

5.b	User community data	N/A
5.c	User-group meetings and frequency	N/A
5.d	Typical problems reported	N/A
5.d.i	Resolution to problems	Not needed
5.e	Hours of tech. support and location	N/A
5.f	Calibration requirements	N/A
5.g	Training provided (hours)	Web-based training and instruction manuals

RFI Q.#	Survey Question (abbreviated)	Response
Features and Functions		
6.a	Types of formalize reports	N/A
6.b	Types of on-demand reports	N/A

RFI Q.#	Survey Question (abbreviated)	Response
Performance and Security		
7.a	Average installation time	1-2 minutes
7.b	False positive / false negative rates	Being a hand held device and not an installation type product, most observation of false positive/false negatives are attributable to the operator of the device
7.c	Mean time to failure	None observed
7.d	Percent downtime	N/A
7.e	Data protection mechanisms	N/A
7.f	Database record management	N/A

5.8 Adams Electronics AD2600S



Figure 8. Adams Electronics AD2600S

Person-Borne

RFI Q.#	Survey Question (abbreviated)	Response
Vendor Information		
0	Responded to FRN?	Yes
1.a	Name	Adams Electronics, Inc.
1.b	Address/phone number	1611 South Utica Ave., PMB 408, Tulsa, OK 74104
1.c	Website	www.adamsmetaldetection.com
1.d	Years in business	21 years
1.e	Number and types of customers	State, local, and federal corrections nationwide
1.f	Manufacturing location(s)	United Kingdom

RFI Q.#	Survey Question (abbreviated)	Response
Product Information – Person-borne Contraband Detection		
2.a	Name and model number	Model AD2600S
2.b	Primary product purpose	Detection and location of small threat objects and/or contraband
2.c	Physical dims (HxWxD, inches)	14.2" x 4.1" Body 2.1", Height 1.3"
2.d	Operational dims (detection area)	No information provided
2.e	Weight (lbs)	0.6 lbs including battery
2.f	Portability (e.g., fixed, handheld)	Handheld
2.g	Intended environment (e.g., indoor)	Indoor and outdoor

2.h	Operation conditions/limitations	Operating Temperature: -20°C to 65°C (-4 to 149 °F) Humidity: 0-98%
2.i	Ability to detect metal objects	Yes
2.i.i	Types of metals detected	Ferrous and non-ferrous
2.i.ii	Types of metals NOT detected	None known
2.j	Ability to detect non-metal objects	No
2.j.i	Types of non-metals detected	N/A
2.k	Ability to detect in body cavities	Device suitable to detect small to medium objects concealed in body cavities
2.k.i	Types of body cavities penetrable	Oral, vaginal, and anal
2.l	Ability to detect other contraband	No; Device detects metal objects only
2.m	Modes of operation	No information provided
2.n	Number of detection areas	No information provided
2.o	Type of detector used	The system uses continuous waves (CW) technology.
2.p	Minimum object size detectable	See sensitivity chart
2.p.i	Size on a person	See sensitivity chart
2.p.ii	Size in a body cavity	See sensitivity chart
2.q	Total inspection time (sec/person)	Standard frisk time is 20 sec/person
2.r	Penetration depth (inches)	Penetration depth is dependent upon the size of metal object to be detected. (See sensitivity chart)
2.s	Alert/alarm mechanism	Audio/visual, visual only, fully adjustable, turbo control
2.t	Average time to gen. alarm	0.1 seconds
2.u	Privacy safeguards/features	N/A
2.v	Number of rec. operators	One device, one operator
2.w	Tampering safeguards	N/A
2.x	Sturdiness/fragility of material	Injection molded polycarbonate nylon plastic, extremely rugged
2.y	Ease of storage	Holster supplied, storage is minimal
2.z	Data management	N/A
2.aa	Onboard memory storage	N/A
2.bb	Power requirements	9 volt battery, standard or rechargeable
2.cc	Battery discharge time	360 hours
2.dd	Battery shelf life (months)	No information provided
2.ee	Battery recharge time (hours)	1 hour
2.ff	Battery replacement procedure	In field, standard Phillip's head screwdriver
2.gg	Supplemental charger options	N/A
2.hh	Safety compliances	NIJ Compliance Standard 0602.02, CE Mark to EEC EN5008-1 Table 1. EN50082-1 Table 1:1.1, FCC, IEC and FAA Compliant. Medically tested and approved – No risk to persons with pacemakers. Non-interference to magnetic recorded material.
2.ii	Radiation safety standards	N/A
2.jj	Length of warranty (months)	24 months
2.kk	Auxiliary equipment	<ul style="list-style-type: none"> Holster/carry case optional Fully adjustable turbo control
2.ll	Manufacturer suggested retail price	\$445
2.mm	Extended maintenance plans	N/A
2.nn	Service contract costs	N/A
2.oo	Other information	<ul style="list-style-type: none"> Operational frequency 20Khz Audio frequency 3.4Khz, IP64 Specifically designed for correctional applications

RFI Q.#	Survey Question (abbreviated)	Response
Usability/Training		
5.a	Usability validation processes	N/A
5.b	User community data	N/A
5.c	User-group meetings and frequency	N/A
5.d	Typical problems reported	N/A
5.d.i	Resolution to problems	Not needed
5.e	Hours of tech. support and location	N/A
5.f	Calibration requirements	N/A
5.g	Training provided (hours)	Web-based training and instruction manuals

RFI Q.#	Survey Question (abbreviated)	Response
Features and Functions		
6.a	Types of formalize reports	N/A
6.b	Types of on-demand reports	N/A

RFI Q.#	Survey Question (abbreviated)	Response
Performance and Security		
7.a	Average installation time	1-2 minutes
7.b	False positive / false negative rates	Being a hand held device and not an installation type product, most observation of false positive/false negatives are attributable to the operator of the device
7.c	Mean time to failure	None observed
7.d	Percent downtime	N/A
7.e	Data protection mechanisms	N/A
7.f	Database record management	N/A

5.9 Adams Electronics AMR11



Figure 9. Adams Electronics AMR11

Person-Borne

RFI Q.#	Survey Question (abbreviated)	Response
Vendor Information		
0	Responded to FRN?	Yes
1.a	Name	Adams Electronics, Inc.
1.b	Address/phone number	1611 South Utica Ave., PMB 408, Tulsa, OK 74104
1.c	Website	www.adamsmetaldetection.com; www.adamsinc.com
1.d	Years in business	21 years
1.e	Number and types of customers	State, local, and federal corrections nationwide
1.f	Manufacturing location(s)	United Kingdom

RFI Q.#	Survey Question (abbreviated)	Response
Product Information – Person-borne Contraband Detection		
2.a	Name and model number	Model AMR-11
2.b	Primary product purpose	Detection and location of very small threat objects and/or contraband
2.c	Physical dims (HxWxD, inches)	14.2” H x 2.1” W x 1.3” D
2.d	Operational dims (detection area)	No information provided
2.e	Weight (lbs)	0.6 lbs including battery
2.f	Portability (e.g., fixed, handheld)	Handheld
2.g	Intended environment (e.g., indoor)	Indoor and outdoor
2.h	Operation conditions/limitations	Operating Temperature: -20°C to 65°C (-4 to 149 °F) Humidity: 0-98%

2.i	Ability to detect metal objects	Yes
2.i.i	Types of metals detected	Ferrous and non-ferrous
2.i.ii	Types of metals NOT detected	None known
2.j	Ability to detect non-metal objects	No
2.j.i	Types of non-metals detected	N/A
2.k	Ability to detect in body cavities	Device suitable to detect very small objects concealed in body cavities
2.k.i	Types of body cavities penetrable	Oral, vaginal, and anal
2.l	Ability to detect other contraband	Device detects metal objects only
2.m	Modes of operation	AMR-11: 11 pre-set programmed settings
2.n	Number of detection areas	No information provided
2.o	Type of detector used	The system uses continuous waves (CW) technology.
2.p	Minimum object size detectable	See sensitivity chart
2.p.i	Size on a person	See sensitivity chart
2.p.ii	Size in a body cavity	See sensitivity chart
2.q	Total inspection time (sec/person)	Standard frisk time is 20 sec/person
2.r	Penetration depth (inches)	Penetration depth is dependent upon the size of metal object to be detected. (See sensitivity chart)
2.s	Alert/alarm mechanism	AMR-11: audio/visual only, in addition 11 pre-set programmed settings
2.t	Average time to gen. alarm	0.1 seconds
2.u	Privacy safeguards/features	N/A
2.v	Number of rec. operators	One device, one operator
2.w	Tampering safeguards	N/A
2.x	Sturdiness/fragility of material	Injection molded polycarbonate nylon plastic, extremely rugged
2.y	Ease of storage	Holster supplied, storage is minimal
2.z	Data management	N/A
2.aa	Onboard memory storage	N/A
2.bb	Power requirements	9 volt battery, standard or rechargeable
2.cc	Battery discharge time	360 hours – audio/visual mode
2.dd	Battery shelf life (months)	No information provided
2.ee	Battery recharge time (hours)	1 hour
2.ff	Battery replacement procedure	In field, standard Phillip's head screwdriver
2.gg	Supplemental charger options	N/A
2.hh	Safety compliances	NIJ Compliance Standard 0602.02, CE Mark to EEC EN5008-1 Table 1. EN50082-1 Table 1:1.1, FCC, IEC and FAA Compliant. Medically tested and approved – No risk to persons with pacemakers. Non-interference to magnetic recorded material.
2.ii	Radiation safety standards	N/A
2.jj	Length of warranty (months)	36 months
2.kk	Auxiliary equipment	Holster/carry case optional
2.ll	Manufacturer suggested retail price	\$497
2.mm	Extended maintenance plans	N/A
2.nn	Service contract costs	N/A
2.oo	Other information	<ul style="list-style-type: none"> Operational frequency 20Khz Audio frequency 3.4Khz, IP64

RFI Q.#	Survey Question (abbreviated)	Response
Usability/Training		
5.a	Usability validation processes	N/A
5.b	User community data	N/A
5.c	User-group meetings and frequency	N/A
5.d	Typical problems reported	N/A
5.d.i	Resolution to problems	Not needed
5.e	Hours of tech. support and location	N/A
5.f	Calibration requirements	N/A
5.g	Training provided (hours)	Web-based training and instruction manuals

RFI Q.#	Survey Question (abbreviated)	Response
Features and Functions		
6.a	Types of formalize reports	N/A
6.b	Types of on-demand reports	N/A

RFI Q.#	Survey Question (abbreviated)	Response
Performance and Security		
7.a	Average installation time	1-2 minutes
7.b	False positive / false negative rates	Being a hand held device and not an installation type product, most observation of false positive/false negatives are attributable to the operator of the device
7.c	Mean time to failure	None observed
7.d	Percent downtime	N/A
7.e	Data protection mechanisms	N/A
7.f	Database record management	N/A

5.10 Adams Electronics AX777



Figure 10. Adams Electronics AX777

Environmental

RFI Q.#	Survey Question (abbreviated)	Response
Vendor Information		
0	Responded to FRN?	Yes
1.a	Name	Adams Electronics, Inc.
1.b	Address/phone number	1611 South Utica Ave., PMB 408, Tulsa, OK 74104
1.c	Website	www.adamsmetaldetection.com
1.d	Years in business	21 years
1.e	Number and types of customers	State, local, and federal corrections nationwide
1.f	Manufacturing location(s)	United Kingdom

RFI Q.#	Survey Question (abbreviated)	Response
Product Information – Environmental-borne Contraband Detection		
4.a	Name and model number	Model AX777 Ground Search
4.b	Primary product purpose	Detection and location of extremely small threat objects and/or contraband
4.c	Physical dims (HxWxD, inches)	36" – handle to floor (short mode) 56" fully extended, probe diameter 8 in
4.d	Operational dims (detection area)	probe diameter 8 in
4.e	Weight (lbs)	3.0 lbs including battery
4.f	Portability (e.g., fixed, handheld)	Handheld

4.g	Operation conditions/limitations	Operating Temperature: -20°C to 65°C (-4 to 149 °F) Humidity: 0-98%
4.h	Ability to detect metal objects	Yes
4.h.i	Types of metals detected	Ferrous and non-ferrous
4.h.ii	Types of metals NOT detected	None known
4.i	Ability to detect non-metal objects	No
4.i.i	Types of non-metals detected	N/A
4.j	Ability to detect other contraband	No; Device detects metal objects only
4.k	Modes of operation	No information provided
4.l	Number of detection areas	No information provided
4.m	Type of detector used	The system uses continuous waves (CW) technology.
4.n	Minimum object size detectable	See sensitivity chart
4.o	Maximum object size detectable	No information provided
4.p	Alert/alarm mechanism	Audio/visual, vibration only, continuously adjustable fine tuning adjustment
4.q	Average time to gen. alarm	0.1 seconds
4.r	Number of rec. operators	One device, one operator
4.s	Tampering safeguards	N/A
4.t	Sturdiness/fragility of material	Injection molded polycarbonate, aluminum, & ABS plastic; extremely rugged
4.u	Ease of storage	Carry case supplied, storage is minimal
4.v	Data management	N/A
4.w	Onboard memory storage	N/A
4.x	Power requirements	9 volt battery, standard or rechargeable
4.y	Battery discharge time	280 hours – Audio/visual; 180 hours – vibration mode
4.z	Battery shelf life (months)	No information provided
4.aa	Battery recharge time (hours)	1 hour
4.bb	Battery replacement procedure	In field, slide drawer battery compartment, no tools required
4.cc	Supplemental charger options	N/A
4.dd	Safety compliances	NIJ Compliance Standard 0602.02, CE Mark to EEC EN5008-1 Table 1. EN50082-1 Table 1:1.1, FCC, IEC and FAA Compliant. Medically tested and approved – No risk to persons with pacemakers. Non-interference to magnetic recorded material.
4.ee	Radiation safety standards	N/A
4.ff	Length of warranty (months)	24 months
4.gg	Auxiliary equipment	<ul style="list-style-type: none"> • Carry case • Continuously adjustable fine tuning adjustment
4.hh	Manufacturer suggested retail price	\$750
4.ii	Extended maintenance plans	N/A
4.jj	Service contract costs	N/A
4.kk	Other information	<ul style="list-style-type: none"> • Operational frequency 20Khz • Audio frequency 3.4Khz, IP64

RFI Q.#	Survey Question (abbreviated)	Response
Usability/Training		
5.a	Usability validation processes	N/A
5.b	User community data	N/A
5.c	User-group meetings and frequency	N/A
5.d	Typical problems reported	N/A
5.d.i	Resolution to problems	Not needed

5.e	Hours of tech. support and location	N/A
5.f	Calibration requirements	N/A
5.g	Training provided (hours)	Web-based training and instruction manuals

RFI Q.#	Survey Question (abbreviated)	Response
Features and Functions		
6.a	Types of formalize reports	N/A
6.b	Types of on-demand reports	N/A

RFI Q.#	Survey Question (abbreviated)	Response
Performance and Security		
7.a	Average installation time	1-2 minutes
7.b	False positive / false negative rates	Being a hand held device and not an installation type product, most observation of false positive/false negatives are attributable to the operator of the device
7.c	Mean time to failure	None observed
7.d	Percent downtime	N/A
7.e	Data protection mechanisms	N/A
7.f	Database record management	N/A

5.11 Adams Electronics ER3000



Figure 11. Adams Electronics ER3000

Person-Borne

RFI Q.#	Survey Question (abbreviated)	Response
Vendor Information		
0	Responded to FRN?	Yes
1.a	Name	Adams Electronics, Inc.
1.b	Address/phone number	1611 South Utica Ave., PMB 408, Tulsa, OK 74104
1.c	Website	www.adamsmetaldetection.com
1.d	Years in business	21 years
1.e	Number and types of customers	State, local, and federal corrections nationwide
1.f	Manufacturing location(s)	United Kingdom

RFI Q.#	Survey Question (abbreviated)	Response
Product Information – Person-borne Contraband Detection		
2.a	Name and model number	Model ER3000
2.b	Primary product purpose	Detection and location of extremely small threat objects and/or contraband
2.c	Physical dims (HxWxD, inches)	14.2" x 4.1" Body 2.1", Height 1.3"
2.d	Operational dims (detection area)	No information provided
2.e	Weight (lbs)	0.6 lbs including battery
2.f	Portability (e.g., fixed, handheld)	Handheld
2.g	Intended environment (e.g., indoor)	Indoor and outdoor

2.h	Operation conditions/limitations	Operating Temperature: -20°C to 65°C (-4 to 149 °F) Humidity: 0-98%
2.i	Ability to detect metal objects	Yes
2.i.i	Types of metals detected	Ferrous and non-ferrous
2.i.ii	Types of metals NOT detected	None known
2.j	Ability to detect non-metal objects	No
2.j.i	Types of non-metals detected	N/A
2.k	Ability to detect in body cavities	Device suitable of extremely small threat objects concealed in body cavities.
2.k.i	Types of body cavities penetrable	Oral, vaginal, and anal
2.l	Ability to detect other contraband	No; Device detects metal objects only
2.m	Modes of operation	No information provided
2.n	Number of detection areas	No information provided
2.o	Type of detector used	The system uses continuous waves (CW) technology.
2.p	Minimum object size detectable	See sensitivity chart
2.p.i	Size on a person	See sensitivity chart
2.p.ii	Size in a body cavity	See sensitivity chart
2.q	Total inspection time (sec/person)	Standard frisk time 20 sec/person
2.r	Penetration depth (inches)	Penetration depth is dependent upon the size of metal object to be detected. (See sensitivity chart)
2.s	Alert/alarm mechanism	Audio/visual, continuously adjustable fine tuning adjustment
2.t	Average time to gen. alarm	0.1 seconds
2.u	Privacy safeguards/features	N/A
2.v	Number of rec. operators	One device, one operator
2.w	Tampering safeguards	N/A
2.x	Sturdiness/fragility of material	Injection molded polycarbonate; extremely rugged
2.y	Ease of storage	Holster supplied, optional extra; storage is minimal
2.z	Data management	N/A
2.aa	Onboard memory storage	N/A
2.bb	Power requirements	9 volt battery, standard or rechargeable
2.cc	Battery discharge time	360 hours – Audio/visual mode
2.dd	Battery shelf life (months)	Information not found on website
2.ee	Battery recharge time (hours)	1 hour
2.ff	Battery replacement procedure	In field, standard Phillip's head screwdriver
2.gg	Supplemental charger options	N/A
2.hh	Safety compliances	NIJ Compliance Standard 0602.02, CE Mark to EEC EN5008-1 Table 1. EN50082-1 Table 1:1.1, FCC, IEC and FAA Compliant. Medically tested and approved – No risk to persons with pacemakers. Non-interference to magnetic recorded material.
2.ii	Radiation safety standards	N/A
2.jj	Length of warranty (months)	36 months
2.kk	Auxiliary equipment	Continuously adjustable fine tuning adjustment
2.ll	Manufacturer suggested retail price	\$497
2.mm	Extended maintenance plans	N/A
2.nn	Service contract costs	N/A
2.oo	Other information	<ul style="list-style-type: none"> Operational frequency 20Khz Audio frequency 3.4Khz, IP64

RFI Q.#	Survey Question (abbreviated)	Response
Usability/Training		
5.a	Usability validation processes	N/A
5.b	User community data	N/A
5.c	User-group meetings and frequency	N/A
5.d	Typical problems reported	N/A
5.d.i	Resolution to problems	Not needed
5.e	Hours of tech. support and location	N/A
5.f	Calibration requirements	N/A
5.g	Training provided (hours)	Web-based training and instruction manuals

RFI Q.#	Survey Question (abbreviated)	Response
Features and Functions		
6.a	Types of formalize reports	N/A
6.b	Types of on-demand reports	N/A

RFI Q.#	Survey Question (abbreviated)	Response
Performance and Security		
7.a	Average installation time	1-2 minutes
7.b	False positive / false negative rates	Being a hand held device and not an installation type product, most observation of false positive/false negatives are attributable to the operator of the device
7.c	Mean time to failure	None observed
7.d	Percent downtime	N/A
7.e	Data protection mechanisms	N/A
7.f	Database record management	N/A

5.12 Adams Electronics MIT



Figure 12. Adams Electronics MIT

Person-Borne

RFI Q.#	Survey Question (abbreviated)	Response
Vendor Information		
0	Responded to FRN?	Yes
1.a	Name	Adams Electronics, Inc.
1.b	Address/phone number	1611 South Utica Ave., PMB 408, Tulsa, OK 74104
1.c	Website	www.adamsmetaldetection.com
1.d	Years in business	21 years
1.e	Number and types of customers	State, local, and federal corrections nationwide
1.f	Manufacturing location(s)	United Kingdom

RFI Q.#	Survey Question (abbreviated)	Response
Product Information – Person-borne Contraband Detection		
2.a	Name and model number	Model MIT Hand Worn
2.b	Primary product purpose	Detection and location of general sized threat objects and/or contraband
2.c	Physical dims (HxWxD, inches)	Device is worn on hand, dims are equivalent to a hand
2.d	Operational dims (detection area)	No information provided
2.e	Weight (lbs)	0.33 lbs including battery
2.f	Portability (e.g., fixed, handheld)	Handheld
2.g	Intended environment (e.g., indoor)	Indoor and outdoor
2.h	Operation conditions/limitations	Operating Temperature: -20°C to 65°C (-4 to 149 °F) Humidity: 0-98%
2.i	Ability to detect metal objects	Yes

2.i.i	Types of metals detected	Ferrous and non-ferrous
2.i.ii	Types of metals NOT detected	None known
2.j	Ability to detect non-metal objects	No
2.j.i	Types of non-metals detected	N/A
2.k	Ability to detect in body cavities	Device suitable to detect medium to large threat objects concealed in body cavities.
2.k.i	Types of body cavities penetrable	Oral
2.l	Ability to detect other contraband	No; Device detects metal objects only
2.m	Modes of operation	No information provided
2.n	Number of detection areas	No information provided
2.o	Type of detector used	The system uses continuous waves (CW) technology.
2.p	Minimum object size detectable	See sensitivity chart
2.p.i	Size on a person	See sensitivity chart
2.p.ii	Size in a body cavity	See sensitivity chart
2.q	Total inspection time (sec/person)	Standard frisk time 20 sec/person
2.r	Penetration depth (inches)	Penetration depth is dependent upon the size of metal object to be detected. (See sensitivity chart)
2.s	Alert/alarm mechanism	Vibration only
2.t	Average time to gen. alarm	0.1 seconds
2.u	Privacy safeguards/features	N/A
2.v	Number of rec. operators	One device, one operator
2.w	Tampering safeguards	N/A
2.x	Sturdiness/fragility of material	Neoprene
2.y	Ease of storage	Storage is minimal
2.z	Data management	N/A
2.aa	Onboard memory storage	N/A
2.bb	Power requirements	9 volt battery, standard or rechargeable
2.cc	Battery discharge time	48 hours
2.dd	Battery shelf life (months)	No information provided
2.ee	Battery recharge time (hours)	1 hour
2.ff	Battery replacement procedure	In field, Velcro access
2.gg	Supplemental charger options	N/A
2.hh	Safety compliances	NIJ Compliance Standard 0602.02, CE Mark to EEC EN5008-1 Table 1. EN50082-1 Table 1:1.1, FCC, IEC and FAA Compliant. Medically tested and approved – No risk to persons with pacemakers. Non-interference to magnetic recorded material.
2.ii	Radiation safety standards	N/A
2.jj	Length of warranty (months)	24 months
2.kk	Auxiliary equipment	<ul style="list-style-type: none"> • Can be worn on either left or right hand • Machine washable
2.ll	Manufacturer suggested retail price	\$175
2.mm	Extended maintenance plans	N/A
2.nn	Service contract costs	N/A
2.oo	Other information	<ul style="list-style-type: none"> • Operational frequency 20Khz • Audio frequency 3.4Khz, IP64

RFI Q.#	Survey Question (abbreviated)	Response
Usability/Training		
5.a	Usability validation processes	N/A

5.b	User community data	N/A
5.c	User-group meetings and frequency	N/A
5.d	Typical problems reported	N/A
5.d.i	Resolution to problems	Not needed
5.e	Hours of tech. support and location	N/A
5.f	Calibration requirements	N/A
5.g	Training provided (hours)	Web-based training and instruction manuals

RFI Q.#	Survey Question (abbreviated)	Response
Features and Functions		
6.a	Types of formalize reports	N/A
6.b	Types of on-demand reports	N/A

RFI Q.#	Survey Question (abbreviated)	Response
Performance and Security		
7.a	Average installation time	1-2 minutes
7.b	False positive / false negative rates	Being a hand held device and not an installation type product, most observation of false positive/false negatives are attributable to the operator of the device
7.c	Mean time to failure	None observed
7.d	Percent downtime	N/A
7.e	Data protection mechanisms	N/A
7.f	Database record management	N/A

5.13 Adani Compass Dual View



Figure 13. Adani Compass Dual View

Person-Borne

RFI Q.#	Survey Question (abbreviated)	Response
Vendor Information		
0	Responded to FRN?	No
1.a	Name	Adani
1.b	Address/phone number	5731 NW 151 At, Miami Lakes, FL 33014
1.c	Website	www.adanisystems.com
1.d	Years in business	25 years
1.e	Number and types of customers	Customers from over 50 countries
1.f	Manufacturing location(s)	Information not found on website

RFI Q.#	Survey Question (abbreviated)	Response
Product Information – Person-borne Contraband Detection		
2.a	Name and model number	Adani Compass Dual View
2.b	Primary product purpose	High throughput detection for metal weapons, bomb components, and contraband
2.c	Physical dims (HxWxD, inches)	98.4" H x 78374.0" W x 89.0" D
2.d	Operational dims (detection area)	Information not found on website
2.e	Weight (lbs)	1984 lbs
2.f	Portability (e.g., fixed, handheld)	Fixed

2.g	Intended environment (e.g., indoor)	Indoor
2.h	Operation conditions/limitations	Operating Temperature: 0°C to 35°C (32 to 95 °F) Humidity: 10-90% (non-condensing)
2.i	Ability to detect metal objects	Yes
2.i.i	Types of metals detected	All metals including rare metals
2.i.ii	Types of metals NOT detected	Information not found on website
2.j	Ability to detect non-metal objects	Yes
2.j.i	Types of non-metals detected	Guns, knives, explosives, electronic devices, small precious stones, etc.
2.k	Ability to detect in body cavities	Yes
2.k.i	Types of body cavities penetrable	All
2.l	Ability to detect other contraband	Yes, ceramics and plastic blades
2.m	Modes of operation	6 independently configurable modes
2.n	Number of detection areas	Information not found on website
2.o	Type of detector used	The system uses digital x-ray detection.
2.p	Minimum object size detectable	0.004"
2.p.i	Size on a person	Information not found on website
2.p.ii	Size in a body cavity	Information not found on website
2.q	Total inspection time (sec/person)	7 sec/person
2.r	Penetration depth (inches)	Information not found on website
2.s	Alert/alarm mechanism	Information not found on website
2.t	Average time to gen. alarm	Information not found on website
2.u	Privacy safeguards/features	Built in privacy software
2.v	Number of rec. operators	Information not found on website
2.w	Tampering safeguards	Information not found on website
2.x	Sturdiness/fragility of material	Information not found on website
2.y	Ease of storage	Information not found on website
2.z	Data management	Barcode, RFID, passport reader; USB or IP camera
2.aa	Onboard memory storage	Integration with Data Management System, server for additional data storage
2.bb	Power requirements	90-450 VAC +10% -15%, 50/60 Hz, 20 Amp dedicated circuit [1.1 kVA]
2.cc	Battery discharge time	N/A
2.dd	Battery shelf life (months)	N/A
2.ee	Battery recharge time (hours)	N/A
2.ff	Battery replacement procedure	N/A
2.gg	Supplemental charger options	N/A
2.hh	Safety compliances	Meets ANSI 43.17.2009 standard Comply with applicable international health and safety regulations including USA FDA X-ray systems (Federal Standard 21CFR 1020.40)
2.ii	Radiation safety standards	Fully adjustable 0.10 - 4.5 μ Sv 0.25 μ Sv - for single view, 2.0 μ Sv - for dual view, extra low dose dual view setting of 0.50 μ Sv [on request]
2.jj	Length of warranty (months)	Information not found on website
2.kk	Auxiliary equipment	<ul style="list-style-type: none"> • Remote viewing compatible • Zoom, b/w reverse. Edge enhance, color overlay, auto filters, and brightness/contrast image manipulation features • 32 AWG typical (full body view) • 38 AWG typical (torso view) • 100% - 24 hour continuous operation
2.ll	Manufacturer suggested retail price	Information not found on website

2.mm	Extended maintenance plans	Information not found on website
2.nn	Service contract costs	Information not found on website
2.oo	Other information	Software fully compatible with most access control systems

RFI Q.#	Survey Question (abbreviated)	Response
Usability/Training		
5.a	Usability validation processes	Information not found on website
5.b	User community data	Information not found on website
5.c	User-group meetings and frequency	Information not found on website
5.d	Typical problems reported	Information not found on website
5.d.i	Resolution to problems	Information not found on website
5.e	Hours of tech. support and location	Support for the life of a system
5.f	Calibration requirements	Information not found on website
5.g	Training provided (hours)	Classroom and hands-on training

RFI Q.#	Survey Question (abbreviated)	Response
Features and Functions		
6.a	Types of formalize reports	Information not found on website
6.b	Types of on-demand reports	Information not found on website

RFI Q.#	Survey Question (abbreviated)	Response
Performance and Security		
7.a	Average installation time	Information not found on website
7.b	False positive / false negative rates	Information not found on website
7.c	Mean time to failure	Information not found on website
7.d	Percent downtime	0% - 24 hour continuous use
7.e	Data protection mechanisms	Information not found on website
7.f	Database record management	Integrated data management system

5.14 Adani DTP 7500 LV



Figure 14. Adani DTP 7500 LV

Vehicle-Borne

RFI Q.#	Survey Question (abbreviated)	Response
Vendor Information		
0	Responded to FRN?	No
1.a	Name	Adani
1.b	Address/phone number	5731 NW 151 At, Miami Lakes, FL 33014
1.c	Website	www.adanisystems.com
1.d	Years in business	25 years
1.e	Number and types of customers	Customers from over 50 countries
1.f	Manufacturing location(s)	Information not found on website

RFI Q.#	Survey Question (abbreviated)	Response
Product Information – Vehicle-borne Contraband Detection		
3.a	Name and model number	Adani DTP 7500 LV
3.b	Primary product purpose	High-energy low dose X-ray scanner with portal-shaped detection system specially designed for the inspection of loaded vehicles (container or general cargo).
3.c	Physical dims (HxWxD, inches)	Maximum Vehicle Dimensions: 173.2" H x 118.1" W x ≤ 984.3" D Tunnel Size: 137.8" W x 177.2" H Footprint: 1574.8" x 1181.1"
3.d	Operational dims (detection area)	138" x 177.6"
3.e	Weight (lbs)	Information not found on website
3.f	Portability (e.g., fixed, handheld)	Fixed, but relocatable
3.g	Operation conditions/limitations	Operating Temperature: -10°C to 40°C (14 to 104 °F)

3.h	Ability to detect metal objects	Yes; guns and explosives	
3.i	Ability to detect drugs/alcohol/chems	Yes; narcotics, alcohol, and other organic materials.	
3.j	Ability to detect people or animals	Yes; people and animals	
3.k	Ability to detect other contraband	Yes	
3.l	Modes of operation	Information not found on website	
3.m	Number of detection areas	Information not found on website	
3.n	Type of detector used	The system uses an X-ray tube.	
3.o	Minimum object size detectable	Information not found on website	
3.p	Total inspection time (sec/vehicle)	3 ±6 mph scanning speed	
3.q	Alert/alarm mechanism	Information not found on website	
3.r	Average time to gen. alarm	Information not found on website	
3.s	Number of rec. operators	Information not found on website	
3.t	Tampering safeguards	Information not found on website	
3.u	Sturdiness/fragility of material	Information not found on website	
3.v	Ease of storage	N/A	
3.w	Data management	Software integration capability	
3.x	Onboard memory storage	Information not found on website	
3.y	Power requirements	Information not found on website	
3.z	Battery discharge time	No battery required	
3.aa	Battery shelf life (months)	No battery required	
3.bb	Battery recharge time (hours)	No battery required	
3.cc	Battery replacement procedure	No battery required	
3.dd	Supplemental charger options	N/A	
3.ee	Safety compliances	ANSI Standard N43.17.2009	ANSI Radiation Safety for Personnel Security Screening Systems Using X-rays
3.ff	Radiation safety standards	Maximum dose: with scanning of cabin < 1.0 µSv/scan at 7 km/h (4.3 mph); without scanning of cabin < 0.02 µSv/scan at 7 km/h (4.3 mph)	
3.gg	Length of warranty (months)	Information not found on website	
3.hh	Auxiliary equipment	<ul style="list-style-type: none"> • Hardware flexibility allows the system to be used as a covert solution • X-ray source module containing the X-ray tube assembly in protective shielding, control system and diesel generator • Control module for operators • Detector module • Emergency stop buttons, flashing beacon, CCTV system, traffic lights 	
3.ii	Manufacturer suggested retail price	Information not found on website	
3.jj	Extended maintenance plans	Information not found on website	
3.kk	Service contract costs	Information not found on website	
3.ll	Other information	<ul style="list-style-type: none"> • One lateral view projection • Multiscreen and remote viewing compatible 	

RFI Q.#	Survey Question (abbreviated)	Response
Usability/Training		
5.a	Usability validation processes	Information not found on website
5.b	User community data	Information not found on website
5.c	User-group meetings and frequency	Information not found on website
5.d	Typical problems reported	Information not found on website

5.d.i	Resolution to problems	Information not found on website
5.e	Hours of tech. support and location	Support for the life of a system
5.f	Calibration requirements	Information not found on website
5.g	Training provided (hours)	Classroom and hands-on training

RFI Q.#	Survey Question (abbreviated)	Response
Features and Functions		
6.a	Types of formalize reports	Information not found on website
6.b	Types of on-demand reports	Information not found on website

RFI Q.#	Survey Question (abbreviated)	Response
Performance and Security		
7.a	Average installation time	2-3 days
7.b	False positive / false negative rates	Information not found on website
7.c	Mean time to failure	Information not found on website
7.d	Percent downtime	Information not found on website
7.e	Data protection mechanisms	Information not found on website
7.f	Database record management	Integrated data management system

5.15 Adani DTP 7500 UV

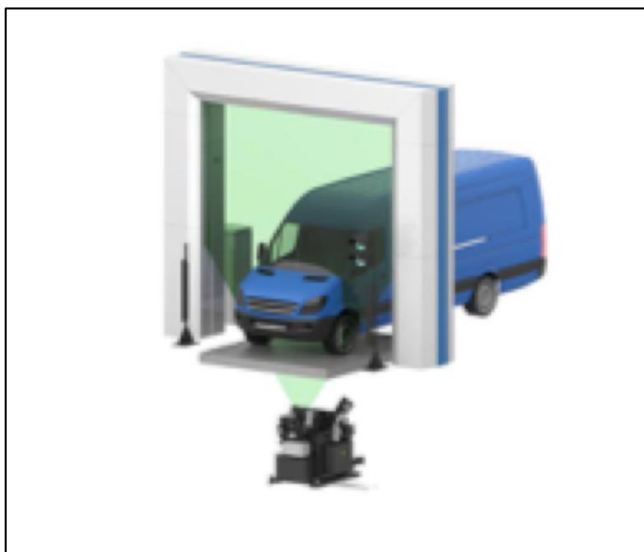


Figure 15. Adani DTP 7500 UV

Vehicle-Borne

RFI Q.#	Survey Question (abbreviated)	Response
Vendor Information		
0	Responded to FRN?	No
1.a	Name	Adani
1.b	Address/phone number	5731 NW 151 At, Miami Lakes, FL 33014
1.c	Website	www.adanisystems.com
1.d	Years in business	25 years
1.e	Number and types of customers	Customers from over 50 countries
1.f	Manufacturing location(s)	Information not found on website

RFI Q.#	Survey Question (abbreviated)	Response
Product Information – Vehicle-borne Contraband Detection		
3.a	Name and model number	Adani DTP 7500 UV
3.b	Primary product purpose	X-ray scanner specially designed for the inspection of large vehicles, cargo containers, tankers, and loaded trucks.
3.c	Physical dims (HxWxD, inches)	Maximum Vehicle Dimensions: 157.4" H x 118.1" W x ≤ 984" D Tunnel Size: 168.1" H x 163.2" W
3.d	Operational dims (detection area)	163.2" x 168.5"
3.e	Weight (lbs)	Information not found on website
3.f	Portability (e.g., fixed, handheld)	Fixed
3.g	Operation conditions/limitations	Operating Temperature: -10°C to 40°C (14 to 104 °F)
3.h	Ability to detect metal objects	Yes; guns and explosives
3.i	Ability to detect	Yes; narcotics, alcohol, and other organic materials.

	drugs/alcohol/chems	
3.j	Ability to detect people or animals	Yes; people and animals
3.k	Ability to detect other contraband	Yes
3.l	Modes of operation	Information not found on website
3.m	Number of detection areas	Information not found on website
3.n	Type of detector used	The system uses a 7.5 MeV accelerator ionizing radiation source.
3.o	Minimum object size detectable	Information not found on website
3.p	Total inspection time (sec/vehicle)	3 ± 6 mph scanning speed
3.q	Alert/alarm mechanism	Information not found on website
3.r	Average time to gen. alarm	Information not found on website
3.s	Number of rec. operators	Information not found on website
3.t	Tampering safeguards	Information not found on website
3.u	Sturdiness/fragility of material	Information not found on website
3.v	Ease of storage	N/A
3.w	Data management	Software integration capability
3.x	Onboard memory storage	Information not found on website
3.y	Power requirements	Information not found on website
3.z	Battery discharge time	No battery required
3.aa	Battery shelf life (months)	No battery required
3.bb	Battery recharge time (hours)	No battery required
3.cc	Battery replacement procedure	No battery required
3.dd	Supplemental charger options	N/A
3.ee	Safety compliances	Information not found on website
3.ff	Radiation safety standards	Maximum dose: with scanning of cabin ≤ 1.0 μSv/scan at 7 km/h (4.3 mph); without scanning of cabin ≤ 0.02 μSv/scan at 7 km/h (4.3 mph)
3.gg	Length of warranty (months)	Information not found on website
3.hh	Auxiliary equipment	<ul style="list-style-type: none"> • Ionizing radiation source, control system and diesel generator • Control module for operators • X-ray detector module
3.ii	Manufacturer suggested retail price	Information not found on website
3.jj	Extended maintenance plans	Information not found on website
3.kk	Service contract costs	Information not found on website
3.ll	Other information	<ul style="list-style-type: none"> • One upright view projection • Multiscreen and remote viewing compatible

RFI Q.#	Survey Question (abbreviated)	Response
Usability/Training		
5.a	Usability validation processes	Information not found on website
5.b	User community data	Information not found on website
5.c	User-group meetings and frequency	Information not found on website
5.d	Typical problems reported	Information not found on website
5.d.i	Resolution to problems	Information not found on website
5.e	Hours of tech. support and location	Support for the life of a system
5.f	Calibration requirements	Information not found on website
5.g	Training provided (hours)	Classroom and hands-on training

RFI Q.#	Survey Question (abbreviated)	Response
Features and Functions		
6.a	Types of formalize reports	Information not found on website
6.b	Types of on-demand reports	Information not found on website

RFI Q.#	Survey Question (abbreviated)	Response
Performance and Security		
7.a	Average installation time	Information not found on website
7.b	False positive / false negative rates	Information not found on website
7.c	Mean time to failure	Information not found on website
7.d	Percent downtime	Information not found on website
7.e	Data protection mechanisms	Information not found on website
7.f	Database record management	Integrated data management system

5.16 Adani Security Compass DTP 200S



Figure 16. Adani Security Compass DTP 200S

Vehicle-Borne

RFI Q.#	Survey Question (abbreviated)	Response
Vendor Information		
0	Responded to FRN?	No
1.a	Name	Adani
1.b	Address/phone number	5731 NW 151 At, Miami Lakes, FL 33014
1.c	Website	www.adanisystems.com
1.d	Years in business	25 years
1.e	Number and types of customers	Customers from over 50 countries
1.f	Manufacturing location(s)	Information not found on website

RFI Q.#	Survey Question (abbreviated)	Response
Product Information – Vehicle-borne Contraband Detection		
3.a	Name and model number	Adani Compass DTP 200S
3.b	Primary product purpose	Drive-thru passenger vehicle and van X-ray inspection system
3.c	Physical dims (HxWxD, inches)	Maximum Vehicle Dimensions: 110.2" H x 98.4" W x >196.9" D Tunnel Size: 118.1" W x 118.1" H
3.d	Operational dims (detection area)	98.4" x 110.3" x ≤ 315
3.e	Weight (lbs)	Information not found on website
3.f	Portability (e.g., fixed, handheld)	Fixed
3.g	Operation conditions/limitations	Operating Temperature: -10°C to 40°C (14 to 104 °F); optional weather packages extending the operational limits are available
3.h	Ability to detect metal objects	Yes
3.i	Ability to detect	Yes; narcotics, alcohol, explosives, weapons, and other

	drugs/alcohol/chems	contraband items hidden inside.	
3.j	Ability to detect people or animals	Yes; people and animals	
3.k	Ability to detect other contraband	Yes; the system has the ability x-ray the entire vehicle.	
3.l	Modes of operation	Information not found on website	
3.m	Number of detection areas	Information not found on website	
3.n	Type of detector used	The system uses transmission X-ray.	
3.o	Minimum object size detectable	Information not found on website	
3.p	Total inspection time (sec/vehicle)	Up to 150 vehicles/hour	
3.q	Alert/alarm mechanism	Information not found on website	
3.r	Average time to gen. alarm	Information not found on website	
3.s	Number of rec. operators	Information not found on website	
3.t	Tampering safeguards	Information not found on website	
3.u	Sturdiness/fragility of material	Information not found on website	
3.v	Ease of storage	N/A	
3.w	Data management	Information not found on website	
3.x	Onboard memory storage	Information not found on website	
3.y	Power requirements	Information not found on website	
3.z	Battery discharge time	Information not found on website	
3.aa	Battery shelf life (months)	Information not found on website	
3.bb	Battery recharge time (hours)	Information not found on website	
3.cc	Battery replacement procedure	Information not found on website	
3.dd	Supplemental charger options	Information not found on website	
3.ee	Safety compliances	ANSI Standard N43.17	ANSI Radiation Safety for Personnel Security Screening Systems Using X-rays
3.ff	Radiation safety standards	Maximum dose to passengers: < 0.2 µSv/scan at 7 km/h (4.3 mph) vehicle speed	
3.gg	Length of warranty (months)	Information not found on website	
3.hh	Auxiliary equipment	<ul style="list-style-type: none"> • Hardware flexibility • Software integration capability • Multi-screen and remote viewing compatible • Emergency stop buttons, flashing beacon, CCTV system, traffic lights • Steel penetration up to 25mm of steel • 20 AWG Wire detectability • 3.0 mm (0.12 in) spatial resolution • 2% contrast sensitivity • 7 + 1.5 km/h (4.3 ± 0.9 mph) scanning speed 	
3.ii	Manufacturer suggested retail price	Information not found on website	
3.jj	Extended maintenance plans	Information not found on website	
3.kk	Service contract costs	Information not found on website	
3.ll	Other information	<ul style="list-style-type: none"> • Hardware flexibility allows the system to be used as a covert solution • Low radiation so passengers can remain in vehicles during scan • Can be customized to meet user needs • Image quality: steel penetration up to 25 mm (1.0 in), 1.0 mm (0.04 in) guaranteed copper wire resolution, 2.5 mm (0.1 in) spatial resolution, 2% contrast sensitivity 	

RFI Q.#	Survey Question (abbreviated)	Response
Usability/Training		
5.a	Usability validation processes	Information not found on website
5.b	User community data	Information not found on website
5.c	User-group meetings and frequency	Information not found on website
5.d	Typical problems reported	Information not found on website
5.d.i	Resolution to problems	Information not found on website
5.e	Hours of tech. support and location	Support for the life of a system
5.f	Calibration requirements	Information not found on website
5.g	Training provided (hours)	Classroom and hands-on training

RFI Q.#	Survey Question (abbreviated)	Response
Features and Functions		
6.a	Types of formalize reports	Information not found on website
6.b	Types of on-demand reports	Information not found on website

RFI Q.#	Survey Question (abbreviated)	Response
Performance and Security		
7.a	Average installation time	Information not found on website
7.b	False positive / false negative rates	Information not found on website
7.c	Mean time to failure	Information not found on website
7.d	Percent downtime	Information not found on website
7.e	Data protection mechanisms	Information not found on website
7.f	Database record management	Information not found on website

5.17 American Science and Engineering (AS&E) CarView



Figure 17. AS&E CarView

Vehicle-Borne

RFI Q.#	Survey Question (abbreviated)	Response
Vendor Information		
0	Responded to FRN?	Yes
1.a	Name	American Science and Engineering (AS&E), Inc.
1.b	Address/phone number	829 Middlesex Turnpike, Billerica, MA 01821 (978) 262-8700
1.c	Website	www.as-e.com
1.d	Years in business	57 years
1.e	Number and types of customers	Security inspection markets: ports, government, stadiums and events, borders and checkpoints, high-threat facilities, prisons, military, airports, public safety and law enforcement.
1.f	Manufacturing location(s)	829 Middlesex Turnpike, Billerica, MA 01821

RFI Q.#	Survey Question (abbreviated)	Response
Product Information – Vehicle-borne Contraband Detection		
3.a	Name and model number	CarView
3.b	Primary product purpose	High throughput passenger vehicle scanning system that produces two high quality X-ray images for the detection of threats and contraband, including drugs, weapons, currency, explosives, and humans.

3.c	Physical dims (HxWxD, inches)	Maximum Vehicle Dimensions: 96.8" H x 96.8" W Tunnel Size: 132.1" W x 108.2" H Footprint: 168.5" H x 180.7" W x 168" D	
3.d	Operational dims (detection area)	No information provided	
3.e	Weight (lbs)	8000 lbs	
3.f	Portability (e.g., fixed, handheld)	Fixed, but relocatable	
3.g	Operation conditions/limitations	Operating Temperature: -30°C to 60°C (-22°F to 140°F) Storage Temperature: -40°C to 70°C (-40°F to 158°F) Operating Conditions: Operable in rain, snow, wind, and blowing sand.	
3.h	Ability to detect metal objects	Yes; guns and explosives	
3.i	Ability to detect drugs/alcohol/chems	Yes; narcotics, alcohol, and other organic materials.	
3.j	Ability to detect people or animals	Yes; people and animals	
3.k	Ability to detect other contraband	The system has the ability to highlight low and high atomic number material with varying densities.	
3.l	Modes of operation	No information provided	
3.m	Number of detection areas	No information provided	
3.n	Type of detector used	225 keV X-ray tube, collimator, and shutter assembly	
3.o	Minimum object size detectable	A typical handgun can be highlighted within parts of the vehicle. 2lbs of high explosives with a nominal size of 5" x 5" x 5" just below the surface of the vehicle (i.e., fender or doors)	
3.p	Total inspection time (sec/vehicle)	80 trucks/hr or greater depending on options.	
3.q	Alert/alarm mechanism	More information is required.	
3.r	Average time to gen. alarm	N/A	
3.s	Number of rec. operators	One	
3.t	Tampering safeguards	The system does not need to be connected in any way to an external network. There is no wireless functionality that can lead to jamming.	
3.u	Sturdiness/fragility of material	N/A	
3.v	Ease of storage	N/A	
3.w	Data management	Comply	
3.x	Onboard memory storage	Approximately 5 MB/vehicle data set. >150,000 vehicle data sets	
3.y	Power requirements	400 VAC (+/-10 %), 50 Hz (+/- 3Hz) or 60 Hz (+/- 3 Hz), 3-phase, 5-wire: 4 leads and ground	
3.z	Battery discharge time	No battery required	
3.aa	Battery shelf life (months)	No battery required	
3.bb	Battery recharge time (hours)	No battery required	
3.cc	Battery replacement procedure	No battery required	
3.dd	Supplemental charger options	N/A	
3.ee	Safety compliances	ANSI Standard N43.17	ANSI Radiation Safety for Personnel Security Screening Systems Using X-rays
		96/29/Euratom European Council Directive – 1996	European Council Certification of Conformance
		ICRP Publication 60	International Commission on Radiological Protection Safety Documentation and Certification
		2004/108/EC	Electromagnetic Compatibility Directive for EC Marketing
		2006/95/EC	Low Voltage Directive

		IEC 61010	Safety Requirements for Electrical Equipment for Measurement, Control, and Laboratory Use
		IEC 60204	Safety of Machinery-Electrical Equipment of Machines
		ISO 9001:2008	International Standards Organization
		NEC 2008	National Electrical Code
		ANSI N42.46:2008	Determination of the Imaging Performance of X-ray and Gamma-ray Systems for Cargo and Vehicle Security Screening
		EN 61326-1:2006	Electrical Equipment for Measurement, Control, and Laboratory Use
		EN 61000-6-2:2001	EMC Standards for Immunity for Industrial Environments
		EN 61000-6-4:2006	EMC Emission Standard for Industrial Environments
3.ff	Radiation safety standards	See answer above	
3.gg	Length of warranty (months)	12 month warranty	
3.hh	Auxiliary equipment	N/A	
3.ii	Manufacturer suggested retail price	Please contact for details	
3.jj	Extended maintenance plans	Available	
3.kk	Service contract costs	Please contact for details	
3.ll	Other information	None	

RFI Q.#	Survey Question (abbreviated)	Response
Usability/Training		
5.a	Usability validation processes	The initial user interface (UI) design is based on a formal analysis of the previous major software release, including feedback from customers and internal stakeholders. A formal analysis of major use cases and related data is performed to provide guidance during UI design. As prototype UI components were developed, stakeholder feedback was solicited. Once initial development versions of the software were available, AS&E observed customer and internal users as they interacted with the software in order to highlight possible areas for improvement. This “check and adjust” approach was part of the plan for enhancing usability. AS&E conducted studies of keystroke/click counts for frequently performed tasks and provided selecting support of beginner/expert paths as appropriate based on feedback. AS&E also worked with an external graphic designer on the “look and feel” of the UI to ensure that it would be optimal for operators who would interact with the UI for extended periods and who need to focus on the critical data (and not the UI itself). Moving forward, AS&E intends to continue to refine and improve usability by continuing to solicit feedback and observing deployed product usage.
5.b	User community data	AS&E observes students during hands-on training and during the practical test (when a trainee takes the

		instructor through a series of scenarios to demonstrated proficiency and system knowledge). Each trainee completes a course evaluation at the end of the course. After training is completed, AS&E requests that trainees complete a 3-6 month evaluation in order to collect feedback from operators who are currently operating the system. AS&E also requests feedback whenever an operator is due for re-certification. Field Service Engineers also conduct ad-hoc observation when visiting customer sites.						
5.c	User-group meetings and frequency	AS&E hosts a users' conference each year and invite end users to share their feedback and experiences from the field with other users. AS&E collects and evaluates this feedback in order to plan future improvements to products and services.						
5.d	Typical problems reported	Problems incurred include everything from operator error to faulty components associated with the reported failure.						
5.d.i	Resolution to problems	<p>Average time to Complete a Repair with Engineer On-Site, Part in Hand (# of hours)</p> <table border="1"> <tr> <td>FY14</td> <td>FY15</td> <td>FY16</td> </tr> <tr> <td>N/A</td> <td>N/A</td> <td>No Data</td> </tr> </table> <p>Note: Resolutions to the problems incurred includes everything from operator error to remove and & replace faulty components associated with the reported failure.</p>	FY14	FY15	FY16	N/A	N/A	No Data
FY14	FY15	FY16						
N/A	N/A	No Data						
5.e	Hours of tech. support and location	Varies on complexity of problem, most calls are triaged by the Technical Support department to identify and resolve issues at first contact. Items deemed to be beyond the scope of an operator-enabled repair require a Field Service Engineer to be dispatched to the site location.						
5.f	Calibration requirements	N/A						
5.g	Training provided (hours)	The training hours depend on the system type that is being completed. It can range from one day up to two weeks depending on system complexity. The training provided encompasses a variety of mediums, which includes instructor-led, web-based, hands-on and experimental learning.						

RFI Q.#	Survey Question (abbreviated)	Response
Features and Functions		
6.a	Types of formalize reports	Utilization and threat reports are available.
6.b	Types of on-demand reports	Reports can be customized.

RFI Q.#	Survey Question (abbreviated)	Response
Performance and Security		
7.a	Average installation time	No information provided
7.b	False positive / false negative rates	N/A
7.c	Mean time to failure	No Data
7.d	Percent downtime	Average Operational Availability (stated in terms of %)

		FY14	FY15	FY16	
		N/A	N/A	No Data	
7.e	Data protection mechanisms	All systems can be password protected using standard MS Windows features.			
7.f	Database record management	Archiving is available on all systems.			

5.18 American Science and Engineering (AS&E) MiniZ



Figure 18. AS&E Mini Z

Vehicle-Borne

Environmental

RFI Q.#	Survey Question (abbreviated)	Response
Vendor Information		
0	Responded to FRN?	Yes
1.a	Name	American Science and Engineering (AS&E), Inc.
1.b	Address/phone number	829 Middlesex Turnpike, Billerica, MA 01821 (978) 262-8700
1.c	Website	www.as-e.com
1.d	Years in business	57 years
1.e	Number and types of customers	Security inspection markets: ports, government, stadiums & events, borders & checkpoints, high-threat facilities, prisons, military, airports, public safety and law enforcement.
1.f	Manufacturing location(s)	829 Middlesex Turnpike, Billerica, MA 01821

RFI Q.#	Survey Question (abbreviated)	Response
Product Information – Vehicle-borne Contraband Detection		
3.a	Name and model number	Mini Z Handheld Z Backscatter Imaging System
3.b	Primary product purpose	Lightweight, ergonomic imaging system that provides fast, portable, real-time detection of hidden organic threats and contraband, such as drugs, plastic guns, ceramic knives, and explosives behind non-metallic surfaces.
3.c	Physical dims (HxWxD, inches)	84.6" H x 108.8" W x 132.5" D
3.d	Operational dims (detection area)	No information provided
3.e	Weight (lbs)	9 lbs
3.f	Portability (e.g., fixed, handheld)	Portable

3.g	Operation conditions/limitations	Operating Temperature: 0°C to 45°C (32°F to 113°F) Storage Temperature: -40°C to 60°C (-40°F to 140°F) Humidity: 5-95% relative humidity	
3.h	Ability to detect metal objects	Yes; the system is designed to highlight organic materials such as explosives, drugs, and currency. Metallic weapons are also highlighted on a limited basis.	
3.i	Ability to detect drugs/alcohol/chems	Yes; high density low atomic number materials (i.e., organics) are highlighted, including narcotics, alcohol, and chemicals.	
3.j	Ability to detect people or animals	Yes; animals	
3.k	Ability to detect other contraband	High density low atomic number materials (i.e., organics) are highlighted.	
3.l	Modes of operation	No information provided	
3.m	Number of detection areas	No information provided	
3.n	Type of detector used	X-ray Source: 70 KeV, 10 W Backscatter Detectors: Backscatter detectors using scintillators and photomultipliers optimized for detection of low Z materials.	
3.o	Minimum object size detectable	2 lbs of explosives can be detected inside the seat of a car.	
3.p	Total inspection time (sec/vehicle)	Scan speed is 6" per second with a field of view of 4." The system is designed to scan parts of a vehicle but not the entire vehicle.	
3.q	Alert/alarm mechanism	N/A	
3.r	Average time to gen. alarm	N/A	
3.s	Number of rec. operators	One	
3.t	Tampering safeguards	The system is not connected to the internet. The wireless function is WPA2 with AES encryption.	
3.u	Sturdiness/fragility of material	The system is rated as IP54.	
3.v	Ease of storage	The system can be stored within its protective carrying case when not in use.	
3.w	Data management	All image and data management is performed at the operator interface.	
3.x	Onboard memory storage	64 Gb of memory is available, which is sufficient for 100,000 images.	
3.y	Power requirements	14.4 V, 3.4 A, Lithium Ion Smart Battery, rated to 4 hours	
3.z	Battery discharge time	4-8 hours (depends on system utilization)	
3.aa	Battery shelf life (months)	2 months	
3.bb	Battery recharge time (hours)	4 hours estimated time	
3.cc	Battery replacement procedure	Field	
3.dd	Supplemental charger options	System comes with 2 rechargeable batteries and 1 charger	
3.ee	Safety compliances	CE	IEC 61010, IEC 62133
		ISO	9001:2008
		ANSI	IP54
		AS&E	Certification of conformance to product specification
		OSHA	29 CFR 1910 (as applicable)
		UL/TUV	Tested and qualified to UL 61010-1:2004 by a Nationally Recognized Test Laboratory (TUV)
		Radio Frequency Emissions	EN61000-4-3

3.ff	Radiation safety standards	See answer above
3.gg	Length of warranty (months)	12 months
3.hh	Auxiliary equipment	None
3.ii	Manufacturer suggested retail price	Please contact for details
3.jj	Extended maintenance plans	Available
3.kk	Service contract costs	Please contact for details
3.ll	Other information	None

RFI Q.#	Survey Question (abbreviated)	Response
Product Information – Environmental-borne Contraband Detection		
4.a	Name and model number	Mini Z Handheld Z Backscatter Imaging System
4.b	Primary product purpose	Lightweight, ergonomic imaging system that provides fast, portable, real-time detection of hidden organic threats and contraband, such as drugs, plastic guns, ceramic knives, and explosives behind non-metallic surfaces. The unit interfaces with a dedicated Windows 8.1 Tablet PC via Wi-Fi or direct Ethernet tether.
4.c	Physical dims (HxWxD, inches)	84.6" H x 108.8" W x 132.5" D
4.d	Operational dims (detection area)	No information provided
4.e	Weight (lbs)	9 lbs
4.f	Portability (e.g., fixed, handheld)	Portable
4.g	Operation conditions/limitations	Operating Temperature: 0°C to 45°C (32°F to 113°F) Storage Temperature: -40°C to 60°C (-40°F to 140°F) Humidity: 5-95% relative humidity
4.h	Ability to detect metal objects	Only when the metallic material is against organic material.
4.h.i	Types of metals detected	All types as long as the metallic material is in front of organic material.
4.h.ii	Types of metals NOT detected	None, depending on the position of the metallic material.
4.i	Ability to detect non-metal objects	The system can highlight organic materials.
4.i.i	Types of non-metals detected	MINI Z is capable of detecting narcotics, alcohol, and other organic materials.
4.j	Ability to detect other contraband	High density low atomic number materials (i.e., organics) are highlighted.
4.k	Modes of operation	No information provided
4.l	Number of detection areas	No information provided
4.m	Type of detector used	X-ray Source: 70 KeV, 10 W Backscatter Detectors: Backscatter detectors using scintillators and photomultipliers optimized for detection of low Z materials.
4.n	Minimum object size detectable	2 lbs of explosives can be detected inside the seat of a car.
4.o	Maximum object size detectable	Scan speed is 6" per second with a field of view of 4." The system is designed to scan parts of a vehicle, not the entire vehicle.
4.p	Alert/alarm mechanism	N/A
4.q	Average time to gen. alarm	N/A
4.r	Number of rec. operators	Only one, the user
4.s	Tampering safeguards	The system is not connected to the internet. The wireless function is WPA2 with AES encryption.
4.t	Sturdiness/fragility of material	The system is rated as IP54.
4.u	Ease of storage	The system can be stored within its protective carrying case when not in use.

4.v	Data management	All image and data management is performed at the operator interface.	
4.w	Onboard memory storage	64 Gb of memory is available, which is sufficient for 100,000 images.	
4.x	Power requirements	14.4 V, 3.4 A, Lithium Ion Smart Battery, rated to 4 hours	
4.y	Battery discharge time	4-8 hours (depends on system utilization)	
4.z	Battery shelf life (months)	2 months	
4.aa	Battery recharge time (hours)	4 hours estimated time	
4.bb	Battery replacement procedure	Field	
4.cc	Supplemental charger options	System comes with 2 rechargeable batteries and 1 charger	
4.dd	Safety compliances	CE	IEC 61010, IEC 62133
		ISO	9001:2008
		ANSI	IP54
		AS&E	Certification of conformance to product specification
		OSHA	29 CFR 1910 (as applicable)
		UL/TUV	Tested and qualified to UL 61010-1:2004 by a Nationally Recognized Test Laboratory (TUV)
	Radio Frequency Emissions	EN61000-4-3	
4.ee	Radiation safety standards	See answer above	
4.ff	Length of warranty (months)	12 months	
4.gg	Auxiliary equipment	None	
4.hh	Manufacturer suggested retail price	Please contact for details	
4.ii	Extended maintenance plans	Available	
4.jj	Service contract costs	Please contact for details	
4.kk	Other information	None	

RFI Q.#	Survey Question (abbreviated)	Response
Usability/Training		
5.a	Usability validation processes	The initial user interface (UI) design is based on a formal analysis of the previous major software release, including feedback from customers and internal stakeholders. A formal analysis of major use cases and related data is performed to provide guidance during UI design. As prototype UI components were developed, stakeholder feedback was solicited by AS&E. Once initial development versions of the software were available, AS&E observed customer and internal users as they interacted with the software in order to highlight possible areas for improvement. This “check and adjust” approach was part of the plan for enhancing usability. AS&E conducted studies of keystroke/click counts for frequently performed tasks and provided selecting support of beginner/expert paths as appropriate based on feedback. AS&E also worked with an external graphic designer on the “look and feel” of the UI to ensure that it would be optimal for operators who would interact with

		the UI for extended periods and who need to focus on the critical data (and not the UI itself). Moving forward, AS&E intends to continue to refine and improve usability by continuing to solicit feedback and observing deployed product usage.						
5.b	User community data	AS&E observes students during hands-on training and during the practical test (when a trainee takes the instructor through a series of scenarios to demonstrated proficiency and system knowledge). Each trainee completes a course evaluation at the end of the course. After training is completed, AS&E requests that trainees complete a 3-6 month evaluation in order to collect feedback from operators who are currently operating the system. AS&E also requests feedback whenever an operator is due for re-certification. Field Service Engineers also conduct ad-hoc observation when visiting customer sites.						
5.c	User-group meetings and frequency	AS&E hosts a users' conference each year and invite end users to share their feedback and experiences from the field with other users. AS&E collects and evaluates this feedback in order to plan future improvements to products and services.						
5.d	Typical problems reported	Problems incurred include everything from operator error to faulty components associated with the reported failure.						
5.d.i	Resolution to problems	<p>Average time to Complete a Repair with Engineer On-Site, Part in Hand (# of hours)</p> <table border="1"> <tr> <td>FY14</td> <td>FY15</td> <td>FY16</td> </tr> <tr> <td>N/A</td> <td>Return to Factory</td> <td>Return to Factory</td> </tr> </table> <p>Note: Resolutions to the problems incurred includes everything from operator error to remove and & replace faulty components associated with the reported failure.</p>	FY14	FY15	FY16	N/A	Return to Factory	Return to Factory
FY14	FY15	FY16						
N/A	Return to Factory	Return to Factory						
5.e	Hours of tech. support and location	Varies on complexity of problem, most calls are triaged by AS&E's Technical Support department to identify and resolve issues at first contact. Items deemed to be beyond the scope of an operator-enabled repair require a Field Service Engineer to be dispatched to the site location.						
5.f	Calibration requirements	N/A						
5.g	Training provided (hours)	The training hours depends on the system type that is being completed. It can range from one day up to two weeks depending on system complexity. The training that is provided encompasses a variety of mediums, which includes instructor-led, web-based, hands-on and experimental learning.						

RFI Q.#	Survey Question (abbreviated)	Response
Features and Functions		
6.a	Types of formalize reports	Utilization and threat reports are not available.
6.b	Types of on-demand reports	Reports cannot be customized.

RFI Q.#	Survey Question (abbreviated)	Response		
Performance and Security				
7.a	Average installation time	5 min		
7.b	False positive / false negative rates	N/A		
7.c	Mean time to failure	2000 operating hours		
7.d	Percent downtime	Average Operational Availability (stated in terms of %)		
		FY14	FY15	FY16
		N/A	Return to Factory	Return to Factory
7.e	Data protection mechanisms	All systems can be password protected using standard MS Windows features.		
7.f	Database record management	Archiving is available on all systems.		

5.19 American Science and Engineering (AS&E) Sentry Portal



Figure 19. AS&E Sentry Portal

Vehicle-Borne

RFI Q.#	Survey Question (abbreviated)	Response
Vendor Information		
0	Responded to FRN?	Yes
1.a	Name	American Science and Engineering (AS&E), Inc.
1.b	Address/phone number	829 Middlesex Turnpike, Billerica, MA 01821 (978) 262-8700
1.c	Website	www.as-e.com
1.d	Years in business	57 years
1.e	Number and types of customers	Security inspection markets: ports, government, stadiums & events, borders & checkpoints, high-threat facilities, prisons, military, airports, public safety and law enforcement.
1.f	Manufacturing location(s)	829 Middlesex Turnpike, Billerica, MA 01821

RFI Q.#	Survey Question (abbreviated)	Response
Product Information – Vehicle-borne Contraband Detection		
3.a	Name and model number	Sentry Portal Inspection System
3.b	Primary product purpose	High-throughput, high-penetration drive-through cargo inspection system. Capable of detecting threats and contraband hidden in densely packed trucks, cargo containers, and tankers while maintaining the flow of commerce, the Sentry Portal is ideal for scanning operations at high-volume seaports, border crossings, and security checkpoints.
3.c	Physical dims (HxWxD, inches)	120.2" H x 324.0" W x 228.0" D
3.d	Operational dims (detection area)	No information provided

3.e	Weight (lbs)	46,200 lbs	
3.f	Portability (e.g., fixed, handheld)	Fixed, but relocatable	
3.g	Operation conditions/limitations	Operating Temperature: -20°C to 50°C (-4°F to 122°F) Storage Temperature: -30°C to 55°C (-22°F to 131°F) Relative Humidity: 0-100% relative humidity Operation Conditions: Ability to operate outside in rain, snow, fog, hail, sleet, and 20 m/s wind (45 mph). Lighting Protection: Use transient voltage surge suppressor (TVSS) where appropriate Wind Loading: Heavy winds (>100km/hr)	
3.h	Ability to detect metal objects	Yes; provided with dual-energy feature	
3.i	Ability to detect drugs/alcohol/chems	Yes; provided with dual-energy feature	
3.j	Ability to detect people or animals	Comply	
3.k	Ability to detect other contraband	The system has the ability to highlight low and high atomic number material with varying densities.	
3.l	Modes of operation	No information provided	
3.m	Number of detection areas	No information provided	
3.n	Type of detector used	7.5 MeV Betatron	
3.o	Minimum object size detectable	Depending on position and relative cargo, a handgun is detectable.	
3.p	Total inspection time (sec/vehicle)	80 trucks/hr or 45 sec/scan	
3.q	Alert/alarm mechanism	More information is required	
3.r	Average time to gen. alarm	N/A	
3.s	Number of rec. operators	One	
3.t	Tampering safeguards	The system does not require internet access and does not have wireless functionality.	
3.u	Sturdiness/fragility of material	The structure is rated at IP65.	
3.v	Ease of storage	N/A	
3.w	Data management	Both imaging and data are stored on the system and can be archived to a networked archival system.	
3.x	Onboard memory storage	Approximately 1.8 MB/vehicle data set. >400,000 scan record capacity	
3.y	Power requirements	Consumption: 20 KVA US: 480 VAC +/- 10%, 60 Hz, 3-phase, 5-wire (Y) International: 380 VAC +/- 10%, 50 Hz, 3-phase, 5-wire (Y)	
3.z	Battery discharge time	No battery required	
3.aa	Battery shelf life (months)	No battery required	
3.bb	Battery recharge time (hours)	No battery required	
3.cc	Battery replacement procedure	No battery required	
3.dd	Supplemental charger options	No battery required	
3.ee	Safety compliances	ANSI/HPS N43.3-1993	General Radiation Safety – Installations using non-medical X-ray and sealed Gamma Ray sources energies up to 10 MeV
		96/29/Euratom European Council Directive – 1996	European Council Certification of Conformance
		ICRP Publication 60	International Commission on Radiological Protection Safety Documentation and Certification
		CE	CE mark per Electromagnetic Compatibility Directive

			2004/108/EC and Low Voltage Directive 2006/95/EC
		IEC 55011	Information Technology Equipment – Radio Disturbance Characteristics
		NEC 2005	National Electrical Code
3.ff	Radiation safety standards	See answer above	
3.gg	Length of warranty (months)	12 months	
3.hh	Auxiliary equipment	None	
3.ii	Manufacturer suggested retail price	Please contact for details	
3.jj	Extended maintenance plans	Available	
3.kk	Service contract costs	Please contact for details	
3.ll	Other information	None	

RFI Q.#	Survey Question (abbreviated)	Response
Usability/Training		
5.a	Usability validation processes	The initial user interface (UI) design is based on a formal analysis of the previous major software release, including feedback from customers and internal stakeholders. A formal analysis of major use cases and related data is performed by AS&E to provide guidance during UI design. As prototype UI components were developed, stakeholder feedback was solicited. Once initial development versions of the software were available, AS&E observed customer and internal users as they interacted with the software in order to highlight possible areas for improvement. This “check and adjust” approach was part of the plan for enhancing usability. AS&E conducted studies of keystroke/click counts for frequently performed tasks and provided selecting support of beginner/expert paths as appropriate based on feedback. AS&E also worked with an external graphic designer on the “look and feel” of the UI to ensure that it would be optimal for operators who would interact with the UI for extended periods and who need to focus on the critical data (and not the UI itself). Moving forward, AS&E intends to continue to refine and improve usability by continuing to solicit feedback and observing deployed product usage.
5.b	User community data	AS&E observes students during hands-on training and during the practical test (when a trainee takes the instructor through a series of scenarios to demonstrated proficiency and system knowledge). Each trainee completes a course evaluation at the end of the course. After training is completed, AS&E requests that trainees complete a 3-6 month evaluation in order to collect feedback from operators who are currently operating the system. AS&E also requests feedback whenever an operator is due for re-certification. Field Service Engineers also conduct ad-hoc observation when visiting customer sites.
5.c	User-group meetings and frequency	AS&E hosts a users’ conference each year and invite end users to share their feedback and experiences from the

		field with other users. AS&E collects and evaluates this feedback in order to plan future improvements to products and services.						
5.d	Typical problems reported	Problems incurred include everything from operator error to faulty components associated with the reported failure.						
5.d.i	Resolution to problems	<p>Average time to Complete a Repair with Engineer On-Site, Part in Hand (# of hours)</p> <table border="1"> <tr> <td>FY14</td> <td>FY15</td> <td>FY16</td> </tr> <tr> <td>N/A</td> <td>5.05</td> <td>6.5</td> </tr> </table> <p>Note: Resolutions to the problems incurred includes everything from operator error to remove and & replace faulty components associated with the reported failure.</p>	FY14	FY15	FY16	N/A	5.05	6.5
FY14	FY15	FY16						
N/A	5.05	6.5						
5.e	Hours of tech. support and location	Varies on complexity of problem, most calls are triaged by AS&E's Technical Support department to identify and resolve issues at first contact. Items deemed to be beyond the scope of an operator enabled repair require a Field Service Engineer to be dispatched to the site location.						
5.f	Calibration requirements	N/A						
5.g	Training provided (hours)	The training hours depend on the system type that is being completed. It can range from one day up to two weeks depending on system complexity. The training that is provided by AS&E encompasses a variety of mediums, which includes instructor-led, web-based, hands-on and experimental learning.						

RFI Q.#	Survey Question (abbreviated)	Response
Features and Functions		
6.a	Types of formalize reports	Utilization and threat reports are available.
6.b	Types of on-demand reports	Reports can be customized.

RFI Q.#	Survey Question (abbreviated)	Response						
Performance and Security								
7.a	Average installation time	2 weeks after site is prepared and ready						
7.b	False positive / false negative rates	N/A						
7.c	Mean time to failure	>2000 hours; excludes replacement of consumable items (x-ray tube, filters, etc.)						
7.d	Percent downtime	<p>Average Operational Availability (stated in terms of %)</p> <table border="1"> <tr> <td>FY14</td> <td>FY15</td> <td>FY16</td> </tr> <tr> <td>N/A</td> <td>95.7</td> <td>98</td> </tr> </table>	FY14	FY15	FY16	N/A	95.7	98
FY14	FY15	FY16						
N/A	95.7	98						
7.e	Data protection mechanisms	All systems can be password protected using standard MS Windows features.						
7.f	Database record management	Archiving is available on all systems.						

5.20 American Science and Engineering (AS&E) SmartCheck



Figure 20. AS&E SmartCheck

Person-Borne

RFI Q.#	Survey Question (abbreviated)	Response
Vendor Information		
0	Responded to FRN?	Yes
1.a	Name	American Science and Engineering (AS&E), Inc.
1.b	Address/phone number	829 Middlesex Turnpike, Billerica, MA 01821 (978) 262-8700
1.c	Website	www.as-e.com
1.d	Years in business	57 years
1.e	Number and types of customers	Security inspection markets: ports, government, stadiums & events, borders & checkpoints, high-threat facilities, prisons, military, airports, public safety and law enforcement.
1.f	Manufacturing location(s)	829 Middlesex Turnpike, Billerica, MA 01821

RFI Q.#	Survey Question (abbreviated)	Response
Product Information – Person-borne Contraband Detection		
2.a	Name and model number	SmartCheck
2.b	Primary product purpose	Non-intrusive personnel scanning system designed to detect threats and contraband hidden under a person's clothing using Z Backscatter X-ray technology.
2.c	Physical dims (HxWxD, inches)	768" D x 552" W x 1080" H
2.d	Operational dims (detection area)	N/A

2.e	Weight (lbs)	1500 lbs
2.f	Portability (e.g., fixed, handheld)	Fixed
2.g	Intended environment (e.g., indoor)	Indoor
2.h	Operation conditions/limitations	Operating Temperature: 0°C to 42°C (32°F to 104°F) Storage Temperature: -40°C to 60°C (-40°F to 140F) Humidity: 5-95% (non-condensing) Noise: 70dBA
2.i	Ability to detect metal objects	Yes
2.i.i	Types of metals detected	All types, including stainless steel, copper, iron, bronze, gold, and silver.
2.i.ii	Types of metals NOT detected	None
2.j	Ability to detect non-metal objects	Yes
2.j.i	Types of non-metals detected	Ceramic, drugs (including heroin, cocaine, ecstasy), all liquids, explosives, gels, plastic, wood, powder, paper, and currency.
2.k	Ability to detect in body cavities	None
2.k.i	Types of body cavities penetrable	None
2.l	Ability to detect other contraband	The systems are designed to highlight differences in density and atomic number compared to parts of the human body. As a result, any material (existing or future) that has a different density and atomic number can be highlighted.
2.m	Modes of operation	None
2.n	Number of detection areas	None
2.o	Type of detector used	The systems use two types of detectors: 1) a large panel detector for collecting Backscatter X-rays (organic detection); and 2) a detector that captures X-rays that are transmitted through the target (metallic detection).
2.p	Minimum object size detectable	
2.p.i	Size on a person	Metallic objects placed flat on the body can be as small as 1 cm x 1 cm x 50 mm (0.39 x 0.39 x 2.0 in). Organic objects of 3.5 oz with a size of 0.5" x 0.5" x 0.5" placed flat on the body can be highlighted.
2.p.ii	Size in a body cavity	The SmartCheck system does not penetrate the body, therefore internal detection is not possible.
2.q	Total inspection time (sec/person)	8 seconds (one side)
2.r	Penetration depth (inches)	The systems will penetrate all clothing and will penetrate just below the skin.
2.s	Alert/alarm mechanism	None
2.t	Average time to gen. alarm	N/A
2.u	Privacy safeguards/features	A privacy filter is available to protect privacy while allowing threat detection. Customers can specify the privacy setting to meet their specific threat detection/privacy threshold requirements.
2.v	Number of rec. operators	One
2.w	Tampering safeguards	The systems are not connected to an external network. There is no wireless functionality that can lead to jamming.
2.x	Sturdiness/fragility of material	The systems are full sized self-standing cabinet X-ray systems.
2.y	Ease of storage	The systems are on wheels but do not require storage.
2.z	Data management	Supervisors can select any of these options: <ul style="list-style-type: none"> • Save all • Save none

		<ul style="list-style-type: none"> Save selected images 	
2.aa	Onboard memory storage	Up to 15,000 images can be stored in system non-volatile memory. Access to the database and image export is restricted to authorized users only. The system displays the four most recent images.	
2.bb	Power requirements	<p>Electric options:</p> <ul style="list-style-type: none"> 115 VAC +/- 10% (50/60Hz) requires dedicated 20 A circuit 220 VAC +/- 10% (50/60Hz) requires dedicated 15 A circuit 	
2.cc	Battery discharge time	No battery required	
2.dd	Battery shelf life (months)	No battery required	
2.ee	Battery recharge time (hours)	No battery required	
2.ff	Battery replacement procedure	No battery required	
2.gg	Supplemental charger options	No battery required	
2.hh	Safety compliances	ANSI	ANSI Standard N43.17-2002
		CE	European Union NE61000 US Federal Communications Commission (FCC) Part 15 Class A
		CDRH	US Bureau of Radiation Health Standards for Cabinet X-ray Systems (21 CFR 1020.40)
		ISO	9001:2000
		AS&E	Certification of conformance to product specification
		OSHA	29 CFR 1910 (as applicable)
		TUV	TUV certified European Union EN-61010-1 US UL61010-1A Canada CSA C22.2 1010.1-97
		Film Safety	Safe for film speeds up to and including ISO 1600 (DIN33)
2.ii	Radiation safety standards	See answers above	
2.jj	Length of warranty (months)	12 months	
2.kk	Auxiliary equipment	None	
2.ll	Manufacturer suggested retail price	\$98,751	
2.mm	Extended maintenance plans	Available	
2.nn	Service contract costs	Please contact for details	
2.oo	Other information	None	

RFI Q.#	Survey Question (abbreviated)	Response
Usability/Training		
5.a	Usability validation processes	The initial user interface (UI) design is based on a formal analysis of the previous major software release, including feedback from customers and internal stakeholders. A formal analysis of major use cases and related data is performed by AS&E to provide guidance during UI design. As prototype UI components were developed, stakeholder feedback was solicited. Once initial development versions of the software were available, AS&E observed customer and internal users as they

		interacted with the software in order to highlight possible areas for improvement. This “check and adjust” approach was part of the plan for enhancing usability. AS&E conducted studies of keystroke/click counts for frequently performed tasks and provided selecting support of beginner/expert paths as appropriate based on feedback. AS&E also worked with an external graphic designer on the “look and feel” of the UI to ensure that it would be optimal for operators who would interact with the UI for extended periods and who need to focus on the critical data (and not the UI itself). Moving forward, AS&E intends to continue to refine and improve usability by continuing to solicit feedback and observing deployed product usage.						
5.b	User community data	AS&E observes students during hands-on training and during the practical test (when a trainee takes the instructor through a series of scenarios to demonstrated proficiency and system knowledge). Each trainee completes a course evaluation at the end of the course. After training is completed, AS&E requests that trainees complete a 3-6 month evaluation in order to collect feedback from operators who are currently operating the system. AS&E also requests feedback whenever an operator is due for re-certification. Field Service Engineers also conduct ad-hoc observation when visiting customer sites.						
5.c	User-group meetings and frequency	AS&E hosts a users’ conference each year and invite end users to share their feedback and experiences from the field with other users. AS&E collects and evaluates this feedback in order to plan future improvements to products and services.						
5.d	Typical problems reported	Problems incurred include everything from operator error to faulty components associated with the reported failure.						
5.d.i	Resolution to problems	<p>Average time to Complete a Repair with Engineer On-Site, Part in Hand (# of hours)</p> <table border="1"> <thead> <tr> <th>FY14</th> <th>FY15</th> <th>FY16</th> </tr> </thead> <tbody> <tr> <td>0</td> <td>1</td> <td>1</td> </tr> </tbody> </table> <p>Note: Resolutions to the problems incurred includes everything from operator error to remove and & replace faulty components associated with the reported failure.</p>	FY14	FY15	FY16	0	1	1
FY14	FY15	FY16						
0	1	1						
5.e	Hours of tech. support and location	Varies on complexity of problem, most calls are triaged by the Technical Support department to identify and resolve issues at first contact. Items deemed to be beyond the scope of an operator enabled repair require a Field Service Engineer to be dispatched to the site location.						
5.f	Calibration requirements	N/A						
5.g	Training provided (hours)	The training hours depends on the system type that is being completed. It can range from one day up to two weeks depending on system complexity. The training that is provided encompasses a variety of mediums, which includes instructor-led, web-based, hands-on and experimental learning.						

RFI Q.#	Survey Question (abbreviated)	Response
Features and Functions		
6.a	Types of formalize reports	Utilization and threat reports are available.
6.b	Types of on-demand reports	Reports can be customized.

RFI Q.#	Survey Question (abbreviated)	Response				
Performance and Security						
7.a	Average installation time	2 hours				
7.b	False positive / false negative rates	N/A				
7.c	Mean time to failure	1254 hours				
7.d	Percent downtime	Average Operational Availability (stated in terms of %)				
		<table border="1"> <thead> <tr> <th>FY14</th> <th>FY15</th> <th>FY16</th> </tr> </thead> <tbody> <tr> <td>100</td> <td>99.7</td> <td>99.5</td> </tr> </tbody> </table>	FY14	FY15	FY16	100
FY14	FY15	FY16				
100	99.7	99.5				
7.e	Data protection mechanisms	All systems can be password protected using standard MS Windows features.				
7.f	Database record management	Archiving is available on all systems.				

5.21 American Science and Engineering (AS&E) SmartCheck HT



Figure 21. AS&E SmartCheck HT

Person-Borne

RFI Q.#	Survey Question (abbreviated)	Response
Vendor Information		
0	Responded to FRN?	Yes
1.a	Name	American Science and Engineering (AS&E), Inc.
1.b	Address/phone number	829 Middlesex Turnpike, Billerica, MA 01821 (978) 262-8700
1.c	Website	www.as-e.com
1.d	Years in business	57 years
1.e	Number and types of customers	Security inspection markets: ports, government, stadiums & events, borders & checkpoints, high-threat facilities, prisons, military, airports, public safety and law enforcement.
1.f	Manufacturing location(s)	829 Middlesex Turnpike, Billerica, MA 01821

RFI Q.#	Survey Question (abbreviated)	Response
Product Information – Person-borne Contraband Detection		
2.a	Name and model number	SmartCheck High-Throughput (HT) Personnel Screening System
2.b	Primary product purpose	Non-intrusive personnel scanning system designed to detect threats and contraband hidden under a person's clothing using Z Backscatter X-ray technology.
2.c	Physical dims (HxWxD, inches)	768" D x 1158" W x 1080" H
2.d	Operational dims (detection area)	N/A
2.e	Weight (lbs)	3000 lbs

2.f	Portability (e.g., fixed, handheld)	Fixed
2.g	Intended environment (e.g., indoor)	Indoor
2.h	Operation conditions/limitations	Operating Temperature: 0°C to 42°C (32°F to 104°F) Storage Temperature: -40°C to 60°C (-40°F to 140°F) Humidity: 5-95% (non-condensing) Noise: 70dBA
2.i	Ability to detect metal objects	Yes
2.i.i	Types of metals detected	All types, including stainless steel, copper, iron, bronze, gold, and silver.
2.i.ii	Types of metals NOT detected	None
2.j	Ability to detect non-metal objects	Yes
2.j.i	Types of non-metals detected	Ceramic, drugs (including heroin, cocaine, ecstasy), all liquids, explosives, gels, plastic, wood, powder, paper, and currency.
2.k	Ability to detect in body cavities	None
2.k.i	Types of body cavities penetrable	None
2.l	Ability to detect other contraband	The systems are designed to highlight differences in density and atomic number compared to parts of the human body. As a result, any material (existing or future) that has a different density and atomic number can be highlighted.
2.m	Modes of operation	None
2.n	Number of detection areas	None
2.o	Type of detector used	The systems use two types of detectors: 1) a large panel detector for collecting Backscatter X-rays (organic detection); and 2) a detector that captures X-rays that are transmitted through the target (metallic detection).
2.p	Minimum object size detectable	
2.p.i	Size on a person	Metallic objects placed flat on the body can be as small as 1 cm x 1 cm x 50 mm (0.39 x 0.39 x 2.0 in). Organic objects of 3.5 oz with a size of 0.5" x 0.5" x 0.5" placed flat on the body can be highlighted.
2.p.ii	Size in a body cavity	The SmartCheck system does not penetrate the body, therefore internal detection is not possible.
2.q	Total inspection time (sec/person)	10 seconds
2.r	Penetration depth (inches)	The systems will penetrate all clothing and will penetrate just below the skin.
2.s	Alert/alarm mechanism	None
2.t	Average time to gen. alarm	N/A
2.u	Privacy safeguards/features	A privacy filter is available to protect privacy while allowing threat detection. Customers can specify the privacy setting to meet their specific threat detection/privacy threshold requirements.
2.v	Number of rec. operators	One
2.w	Tampering safeguards	The systems are not connected to an external network. There is no wireless functionality that can lead to jamming.
2.x	Sturdiness/fragility of material	The systems are full sized self-standing cabinet X-ray systems.
2.y	Ease of storage	The systems are on wheels but do not require storage.
2.z	Data management	Supervisors can select any of these options: <ul style="list-style-type: none"> • Save all • Save none • Save selected images

2.aa	Onboard memory storage	Up to 15,000 images can be stored in system non-volatile memory. Access to the database and image export is restricted to authorized users only. The system displays the four most recent images.	
2.bb	Power requirements	Electric options: <ul style="list-style-type: none"> • 115 VAC +/- 10% (50/60Hz) requires dedicated 20 A circuit • 220 VAC +/- 10% (50/60Hz) requires dedicated 15 A circuit 	
2.cc	Battery discharge time	No battery required	
2.dd	Battery shelf life (months)	No battery required	
2.ee	Battery recharge time (hours)	No battery required	
2.ff	Battery replacement procedure	No battery required	
2.gg	Supplemental charger options	No battery required	
2.hh	Safety compliances	ANSI	ANSI Standard N43.17-2002
		CE	European Union NE61000 US Federal Communications Commission (FCC) Part 15 Class A
		CDRH	US Bureau of Radiation Health Standards for Cabinet X-ray Systems (21 CFR 1020.40)
		ISO	9001:2000
		AS&E	Certification of conformance to product specification
		OSHA	29 CFR 1910 (as applicable)
		TUV	TUV certified European Union EN-61010-1 US UL61010-1A Canada CSA C22.2 1010.1-97
		Film Safety	Safe for film speeds up to and including ISO 1600 (DIN33)
2.ii	Radiation safety standards	See answers above	
2.jj	Length of warranty (months)	12 months	
2.kk	Auxiliary equipment	None	
2.ll	Manufacturer suggested retail price	Please contact for details	
2.mm	Extended maintenance plans	Available	
2.nn	Service contract costs	Please contact for details	
2.oo	Other information	None	

RFI Q.#	Survey Question (abbreviated)	Response
Usability/Training		
5.a	Usability validation processes	The initial user interface (UI) design is based on a formal analysis of the previous major software release, including feedback from customers and internal stakeholders. A formal analysis of major use cases and related data is performed by AS&E to provide guidance during UI design. As prototype UI components were developed, stakeholder feedback was solicited. Once initial development versions of the software were available, AS&E observed customer and internal users as they interacted with the software in order to highlight possible

		areas for improvement. This “check and adjust” approach was part of the plan for enhancing usability. AS&E conducted studies of keystroke/click counts for frequently performed tasks and provided selecting support of beginner/expert paths as appropriate based on feedback. AS&E also worked with an external graphic designer on the “look and feel” of the UI to ensure that it would be optimal for operators who would interact with the UI for extended periods and who need to focus on the critical data (and not the UI itself). Moving forward, AS&E intends to continue to refine and improve usability by continuing to solicit feedback and observing deployed product usage.						
5.b	User community data	AS&E observes students during hands-on training and during the practical test (when a trainee takes the instructor through a series of scenarios to demonstrated proficiency and system knowledge). Each trainee completes a course evaluation at the end of the course. After training is completed, AS&E requests that trainees complete a 3-6 month evaluation in order to collect feedback from operators who are currently operating the system. AS&E also requests feedback whenever an operator is due for re-certification. Field Service Engineers also conduct ad-hoc observation when visiting customer sites.						
5.c	User-group meetings and frequency	AS&E hosts a users’ conference each year and invite end users to share their feedback and experiences from the field with other users. AS&E collects and evaluates this feedback in order to plan future improvements to products and services.						
5.d	Typical problems reported	Problems incurred include everything from operator error to faulty components associated with the reported failure.						
5.d.i	Resolution to problems	<p>Average time to Complete a Repair with Engineer On-Site, Part in Hand (# of hours)</p> <table border="1"> <thead> <tr> <th>FY14</th> <th>FY15</th> <th>FY16</th> </tr> </thead> <tbody> <tr> <td>0</td> <td>1</td> <td>1</td> </tr> </tbody> </table> <p>Note: Resolutions to the problems incurred includes everything from operator error to remove and & replace faulty components associated with the reported failure.</p>	FY14	FY15	FY16	0	1	1
FY14	FY15	FY16						
0	1	1						
5.e	Hours of tech. support and location	Varies on complexity of problem, most calls are triaged by the Technical Support department to identify and resolve issues at first contact. Items deemed to be beyond the scope of an operator enabled repair require a Field Service Engineer to be dispatched to the site location.						
5.f	Calibration requirements	N/A						
5.g	Training provided (hours)	The training hours depends on the system type that is being completed. It can range from one day up to two weeks depending on system complexity. The training that is provided encompasses a variety of mediums, which includes instructor-led, web-based, hands-on and experimental learning.						

RFI Q.#	Survey Question (abbreviated)	Response
Features and Functions		
6.a	Types of formalize reports	Utilization and threat reports are available.
6.b	Types of on-demand reports	Reports can be customized.

RFI Q.#	Survey Question (abbreviated)	Response				
Performance and Security						
7.a	Average installation time	2 hours				
7.b	False positive / false negative rates	N/A				
7.c	Mean time to failure	1254 hours				
7.d	Percent downtime	Average Operational Availability (stated in terms of %)				
		<table border="1"> <tr> <td>FY14</td> <td>FY15</td> <td>FY16</td> </tr> <tr> <td>100</td> <td>99.7</td> <td>99.5</td> </tr> </table>	FY14	FY15	FY16	100
FY14	FY15	FY16				
100	99.7	99.5				
7.e	Data protection mechanisms	All systems can be password protected using standard MS Windows features.				
7.f	Database record management	Archiving is available on all systems.				

5.22 American Science and Engineering (AS&E) Z Portal Passenger Vehicles



Figure 22. AS&E Z Portal Passenger Vehicles

Vehicle-Borne

RFI Q.#	Survey Question (abbreviated)	Response
Vendor Information		
0	Responded to FRN?	Yes
1.a	Name	American Science and Engineering (AS&E), Inc.
1.b	Address/phone number	829 Middlesex Turnpike, Billerica, MA 01821 (978) 262-8700
1.c	Website	www.as-e.com
1.d	Years in business	57 years
1.e	Number and types of customers	Security inspection markets: ports, government, stadiums & events, borders & checkpoints, high-threat facilities, prisons, military, airports, public safety and law enforcement.
1.f	Manufacturing location(s)	829 Middlesex Turnpike, Billerica, MA 01821

RFI Q.#	Survey Question (abbreviated)	Response
Product Information – Vehicle-borne Contraband Detection		
3.a	Name and model number	Z Portal Vehicle Inspection System
3.b	Primary product purpose	Multi-view, multi-technology drive-through inspection system for screening cars, pickup trucks, SUVs, and motorcycles.
3.c	Physical dims (HxWxD, inches)	210.0" H x 228.4" W x 156.5" D
3.d	Operational dims (detection area)	No information provided
3.e	Weight (lbs)	22,000 lbs

3.f	Portability (e.g., fixed, handheld)	Fixed, but relocatable	
3.g	Operation conditions/limitations	Operating Temperature: -18°C to 55°C (0°F to 131°F) Humidity: 5-95% relative humidity non-condensing Noise: <67 dBA Time Weighted Average, < 80 dBA Peak	
3.h	Ability to detect metal objects	Yes; guns and explosives	
3.i	Ability to detect drugs/alcohol/chems	Yes; narcotics, alcohol, and other organic materials.	
3.j	Ability to detect people or animals	Yes; people and animals	
3.k	Ability to detect other contraband	The system has the ability to highlight low and high atomic number material with varying densities.	
3.l	Modes of operation	No information provided	
3.m	Number of detection areas	No information provided	
3.n	Type of detector used	225 keV X-ray tube, collimator, and shutter assembly	
3.o	Minimum object size detectable	A typical handgun can be highlighted within parts of the vehicle. 2 lbs of high explosives with a nominal size of 5" x 5" x 5" just below the surface of the vehicle (i.e., fender or doors)	
3.p	Total inspection time (sec/vehicle)	80 trucks/hr or greater depending on options.	
3.q	Alert/alarm mechanism	More information is required.	
3.r	Average time to gen. alarm	N/A	
3.s	Number of rec. operators	One	
3.t	Tampering safeguards	The system does not need to be connected in any way to an external network. There is no wireless functionality that can lead to jamming.	
3.u	Sturdiness/fragility of material	N/A	
3.v	Ease of storage	N/A	
3.w	Data management	Comply	
3.x	Onboard memory storage	Approximately 25 MB/vehicle data set. >34,000 vehicle data sets	
3.y	Power requirements	System: 240 VAC, 60/50 Hz, 3 phase, 45 kVA Operator Console: 120 VAC, 60/50 Hz, 1 phase, 20 A or 240 VAC, 60/50 Hz, 1 phase, 10 A	
3.z	Battery discharge time	No battery required	
3.aa	Battery shelf life (months)	No battery required	
3.bb	Battery recharge time (hours)	No battery required	
3.cc	Battery replacement procedure	No battery required	
3.dd	Supplemental charger options	No battery required	
3.ee	Safety compliances	ANSI	ANSI Standard N43.17, Radiation Safety for Personnel Security Screening Systems Using X-rays
		96/29/Euratom European Council Directive – 1996	European Council Certification of Conformance
		ICRP Publication 60	International Commission on Radiological Protection Safety Documentation and Certification
		2004/108/EC	Electromagnetic Compatibility Directive for EC Marketing
		2006/95/EC	Low Voltage Directive
		IEC 61010	Safety Requirements for Electrical Equipment for Measurement, Control, and Laboratory Use
		IEC 60204	Safety of Machinery-Electrical Equipment of Machines

		ISO 9001:2008	International Standards Organization
		NEC 2008	National Electrical Code
		ANSI N42.46:2008	Determination of the Imaging Performance of X-ray and Gamma-ray Systems for Cargo and Vehicle Security Screening
		EN 61326-1:2006	Electrical Equipment for Measurement, Control, and Laboratory Use
		EN 61000-6-2:2001	EMC Standards for Immunity for Industrial Environments
		EN 61000-6-4:2006	EMC Emission Standard for Industrial Environments
3.ff	Radiation safety standards	See answer above	
3.gg	Length of warranty (months)	12 months	
3.hh	Auxiliary equipment	None	
3.ii	Manufacturer suggested retail price	\$1,615,310	
3.jj	Extended maintenance plans	Available.	
3.kk	Service contract costs	Please contact for details	
3.ll	Other information	None	

RFI Q.#	Survey Question (abbreviated)	Response
Usability/Training		
5.a	Usability validation processes	The initial user interface (UI) design is based on a formal analysis of the previous major software release, including feedback from customers and internal stakeholders. A formal analysis of major use cases and related data is performed by AS&E to provide guidance during UI design. As prototype UI components were developed, stakeholder feedback was solicited. Once initial development versions of the software were available, AS&E observed customer and internal users as they interacted with the software in order to highlight possible areas for improvement. This “check and adjust” approach was part of the plan for enhancing usability. AS&E conducted studies of keystroke/click counts for frequently performed tasks and provided selecting support of beginner/expert paths as appropriate based on feedback. AS&E also worked with an external graphic designer on the “look and feel” of the UI to ensure that it would be optimal for operators who would interact with the UI for extended periods and who need to focus on the critical data (and not the UI itself). Moving forward, AS&E intends to continue to refine and improve usability by continuing to solicit feedback and observing deployed product usage.
5.b	User community data	AS&E observes students during hands-on training and during the practical test (when a trainee takes the instructor through a series of scenarios to demonstrated proficiency and system knowledge). Each trainee completes a course evaluation at the end of the course. After training is completed, AS&E requests that trainees

		complete a 3-6 month evaluation in order to collect feedback from operators who are currently operating the system. AS&E also requests feedback whenever an operator is due for re-certification. Field Service Engineers also conduct ad-hoc observation when visiting customer sites.						
5.c	User-group meetings and frequency	AS&E hosts a users' conference each year and invite end users to share their feedback and experiences from the field with other users. AS&E collects and evaluates this feedback in order to plan future improvements to products and services.						
5.d	Typical problems reported	Problems incurred include everything from operator error to faulty components associated with the reported failure.						
5.d.i	Resolution to problems	<p>Average time to Complete a Repair with Engineer On-Site, Part in Hand (# of hours)</p> <table border="1"> <tr> <td>FY14</td> <td>FY15</td> <td>FY16</td> </tr> <tr> <td>14.6</td> <td>9.7</td> <td>7</td> </tr> </table> <p>Note: Resolutions to the problems incurred includes everything from operator error to remove and & replace faulty components associated with the reported failure.</p>	FY14	FY15	FY16	14.6	9.7	7
FY14	FY15	FY16						
14.6	9.7	7						
5.e	Hours of tech. support and location	Varies on complexity of problem, most calls are triaged by the Technical Support department to identify and resolve issues at first contact. Items deemed to be beyond the scope of an operator enabled repair require a Field Service Engineer to be dispatched to the site location.						
5.f	Calibration requirements	N/A						
5.g	Training provided (hours)	The training hours depends on the system type that is being completed. It can range from one day up to two weeks depending on system complexity. The training that is provided encompasses a variety of mediums, which includes instructor-led, web-based, hands-on and experimental learning.						

RFI Q.#	Survey Question (abbreviated)	Response
Features and Functions		
6.a	Types of formalize reports	Utilization and threat reports are available.
6.b	Types of on-demand reports	Reports can be customized.

RFI Q.#	Survey Question (abbreviated)	Response						
Performance and Security								
7.a	Average installation time	1 week						
7.b	False positive / false negative rates	N/A						
7.c	Mean time to failure	>2000 hours						
7.d	Percent downtime	<p>Average Operational Availability (stated in terms of %)</p> <table border="1"> <tr> <td>FY14</td> <td>FY15</td> <td>FY16</td> </tr> <tr> <td>95.9</td> <td>98.9</td> <td>99.5</td> </tr> </table>	FY14	FY15	FY16	95.9	98.9	99.5
FY14	FY15	FY16						
95.9	98.9	99.5						
7.e	Data protection mechanisms	All systems can be password protected using standard MS Windows features.						
7.f	Database record management	Archiving is available on all systems.						

5.23 American Science and Engineering (AS&E) Z Portal Trucks and Cargo



Figure 23. AS&E Z Portal Trucks and Cargo

Vehicle-Borne

RFI Q.#	Survey Question (abbreviated)	Response
Vendor Information		
0	Responded to FRN?	Yes
1.a	Name	American Science and Engineering (AS&E), Inc.
1.b	Address/phone number	829 Middlesex Turnpike, Billerica, MA 01821 (978) 262-8700
1.c	Website	www.as-e.com
1.d	Years in business	57 years
1.e	Number and types of customers	Security inspection markets: ports, government, stadiums & events, borders & checkpoints, high-threat facilities, prisons, military, airports, public safety and law enforcement.
1.f	Manufacturing location(s)	829 Middlesex Turnpike, Billerica, MA 01821

RFI Q.#	Survey Question (abbreviated)	Response
Product Information – Vehicle-borne Contraband Detection		
3.a	Name and model number	Z Portal Cargo Inspection System
3.b	Primary product purpose	Multi-view, multi-technology drive-through inspection system for screening trucks, trailers, buses, vans, campers, and their cargo.
3.c	Physical dims (HxWxD, inches)	264.0" H x 252.7" W x 228.7" D
3.d	Operational dims (detection area)	No information provided
3.e	Weight (lbs)	27,000 lbs

3.f	Portability (e.g., fixed, handheld)	Fixed, but relocatable	
3.g	Operation conditions/limitations	Operating Temperature: -18°C to 55°C (0°F to 131°F) Humidity: 5-95% relative humidity non-condensing Noise: <67 dBA Time Weighted Average, < 80 dBA Peak	
3.h	Ability to detect metal objects	Yes; guns and explosives	
3.i	Ability to detect drugs/alcohol/chems	Yes; narcotics, alcohol, and other organic materials.	
3.j	Ability to detect people or animals	Yes; people and animals	
3.k	Ability to detect other contraband	The system has the ability to highlight low and high atomic number material with varying densities.	
3.l	Modes of operation	No information provided	
3.m	Number of detection areas	No information provided	
3.n	Type of detector used	225 keV X-ray tube, collimator, and shutter assembly	
3.o	Minimum object size detectable	A typical handgun can be highlighted within parts of the vehicle. 2lbs of high explosives with a nominal size of 5" x 5" x 5" just below the surface of the vehicle (i.e., fender or doors)	
3.p	Total inspection time (sec/vehicle)	80 trucks/hr or greater depending on options.	
3.q	Alert/alarm mechanism	N/A	
3.r	Average time to gen. alarm	N/A	
3.s	Number of rec. operators	One	
3.t	Tampering safeguards	The system does not need to be connected in any way to an external network. There is no wireless functionality that can lead to jamming.	
3.u	Sturdiness/fragility of material	N/A	
3.v	Ease of storage	N/A	
3.w	Data management	Comply	
3.x	Onboard memory storage	Approximately 25 MB/vehicle data set. >34,000 vehicle data sets	
3.y	Power requirements	System: 240 VAC, 60/50 Hz, 3 phase, 45 kVA Operator Console: 120 VAC, 60/50 Hz, 1 phase, 20 A or 240 VAC, 60/50 Hz, 1 phase, 10 A	
3.z	Battery discharge time	No battery required	
3.aa	Battery shelf life (months)	No battery required	
3.bb	Battery recharge time (hours)	No battery required	
3.cc	Battery replacement procedure	No battery required	
3.dd	Supplemental charger options	No battery required	
3.ee	Safety compliances	ANSI	ANSI Standard N43.17, Radiation Safety for Personnel Security Screening Systems Using X-rays
		96/29/Euratom European Council Directive – 1996	European Council Certification of Conformance
		ICRP Publication 60	International Commission on Radiological Protection Safety Documentation and Certification
		2004/108/EC	Electromagnetic Compatibility Directive for EC Marketing
		2006/95/EC	Low Voltage Directive
		IEC 61010	Safety Requirements for Electrical Equipment for Measurement, Control, and Laboratory Use
		IEC 60204	Safety of Machinery-Electrical Equipment of Machines

		ISO 9001:2008	International Standards Organization
		NEC 2008	National Electrical Code
		ANSI N42.46:2008	Determination of the Imaging Performance of X-ray and Gamma-ray Systems for Cargo and Vehicle Security Screening
		EN 61326-1:2006	Electrical Equipment for Measurement, Control, and Laboratory Use
		EN 61000-6-2:2001	EMC Standards for Immunity for Industrial Environments
		EN 61000-6-4:2006	EMC Emission Standard for Industrial Environments
3.ff	Radiation safety standards	See answer above	
3.gg	Length of warranty (months)	12 months	
3.hh	Auxiliary equipment	None	
3.ii	Manufacturer suggested retail price	\$1,703,284	
3.jj	Extended maintenance plans	Available.	
3.kk	Service contract costs	Please contact AS&E for details	
3.ll	Other information	None	

RFI Q.#	Survey Question (abbreviated)	Response
Usability/Training		
5.a	Usability validation processes	The initial user interface (UI) design is based on a formal analysis of the previous major software release, including feedback from customers and internal stakeholders. A formal analysis of major use cases and related data is performed by AS&E to provide guidance during UI design. As prototype UI components were developed, stakeholder feedback was solicited. Once initial development versions of the software were available, AS&E observed customer and internal users as they interacted with the software in order to highlight possible areas for improvement. This “check and adjust” approach was part of the plan for enhancing usability. AS&E conducted studies of keystroke/click counts for frequently performed tasks and provided selecting support of beginner/expert paths as appropriate based on feedback. AS&E also worked with an external graphic designer on the “look and feel” of the UI to ensure that it would be optimal for operators who would interact with the UI for extended periods and who need to focus on the critical data (and not the UI itself). Moving forward, AS&E intends to continue to refine and improve usability by continuing to solicit feedback and observing deployed product usage.
5.b	User community data	AS&E observes students during hands-on training and during the practical test (when a trainee takes the instructor through a series of scenarios to demonstrated proficiency and system knowledge). Each trainee completes a course evaluation at the end of the course. After training is completed, AS&E requests that trainees

		complete a 3-6 month evaluation in order to collect feedback from operators who are currently operating the system. AS&E also requests feedback whenever an operator is due for re-certification. Field Service Engineers also conduct ad-hoc observation when visiting customer sites.						
5.c	User-group meetings and frequency	AS&E hosts a users' conference each year and invite end users to share their feedback and experiences from the field with other users. AS&E collects and evaluates this feedback in order to plan future improvements to products and services.						
5.d	Typical problems reported	Problems incurred include everything from operator error to faulty components associated with the reported failure.						
5.d.i	Resolution to problems	<p>Average time to Complete a Repair with Engineer On-Site, Part in Hand (# of hours)</p> <table border="1"> <tr> <td>FY14</td> <td>FY15</td> <td>FY16</td> </tr> <tr> <td>14.6</td> <td>9.7</td> <td>7</td> </tr> </table> <p>Note: Resolutions to the problems incurred includes everything from operator error to remove and & replace faulty components associated with the reported failure.</p>	FY14	FY15	FY16	14.6	9.7	7
FY14	FY15	FY16						
14.6	9.7	7						
5.e	Hours of tech. support and location	Varies on complexity of problem, most calls are triaged by the Technical Support department to identify and resolve issues at first contact. Items deemed to be beyond the scope of an operator enabled repair require a Field Service Engineer to be dispatched to the site location.						
5.f	Calibration requirements	N/A						
5.g	Training provided (hours)	The training hours depends on the system type that is being completed. It can range from one day up to two weeks depending on system complexity. The training that is provided encompasses a variety of mediums, which includes instructor-led, web-based, hands-on and experimental learning.						

RFI Q.#	Survey Question (abbreviated)	Response
Features and Functions		
6.a	Types of formalize reports	Utilization and threat reports are available.
6.b	Types of on-demand reports	Reports can be customized.

RFI Q.#	Survey Question (abbreviated)	Response						
Performance and Security								
7.a	Average installation time	1 week						
7.b	False positive / false negative rates	N/A						
7.c	Mean time to failure	>2000 hours						
7.d	Percent downtime	<p>Average Operational Availability (stated in terms of %)</p> <table border="1"> <tr> <td>FY14</td> <td>FY15</td> <td>FY16</td> </tr> <tr> <td>95.9</td> <td>98.9</td> <td>99.5</td> </tr> </table>	FY14	FY15	FY16	95.9	98.9	99.5
FY14	FY15	FY16						
95.9	98.9	99.5						
7.e	Data protection mechanisms	All systems can be password protected using standard MS Windows features.						
7.f	Database record management	Archiving is available on all systems.						

5.24 Autoclear 8000P



Figure 24. Autoclear 8000P

Person-Borne

RFI Q.#	Survey Question (abbreviated)	Response
Vendor Information		
0	Responded to FRN?	No
1.a	Name	Autoclear LLC
1.b	Address/phone number	2 Gardner Road, Fairfield, NJ 07004 (973) 276-6161
1.c	Website	www.a-clear.com
1.d	Years in business	75 years
1.e	Number and types of customers	66,000 customers
1.f	Manufacturing location(s)	Information not found on website

RFI Q.#	Survey Question (abbreviated)	Response
Product Information – Person-borne Contraband Detection		
2.a	Name and model number	8000P Detection Portal
2.b	Primary product purpose	High throughput detection for metal weapons, bomb components, and contraband
2.c	Physical dims (HxWxD, inches)	24" D x 35" W x 87" H
2.d	Operational dims (detection area)	28.0" W x 79.5" H
2.e	Weight (lbs)	105 lbs
2.f	Portability (e.g., fixed, handheld)	Fixed
2.g	Intended environment (e.g., indoor)	Indoor

2.h	Operation conditions/limitations	Operating Temperature: -10°C to 55°C (14 to 131 °F) Humidity: 0-98% (non-condensing)
2.i	Ability to detect metal objects	Yes
2.i.i	Types of metals detected	Information not found on website
2.i.ii	Types of metals NOT detected	Information not found on website
2.j	Ability to detect non-metal objects	Yes
2.j.i	Types of non-metals detected	Bomb components and contraband
2.k	Ability to detect in body cavities	Information not found on website
2.k.i	Types of body cavities penetrable	Information not found on website
2.l	Ability to detect other contraband	Information not found on website
2.m	Modes of operation	Information not found on website
2.n	Number of detection areas	Information not found on website
2.o	Type of detector used	The system uses pulsed field metal detection.
2.p	Minimum object size detectable	Information not found on website
2.p.i	Size on a person	Information not found on website
2.p.ii	Size in a body cavity	Information not found on website
2.q	Total inspection time (sec/person)	Information not found on website
2.r	Penetration depth (inches)	Information not found on website
2.s	Alert/alarm mechanism	LED power and audio/visual alarm status indicators
2.t	Average time to gen. alarm	Information not found on website
2.u	Privacy safeguards/features	Information not found on website
2.v	Number of rec. operators	Information not found on website
2.w	Tampering safeguards	Information not found on website
2.x	Sturdiness/fragility of material	Thermoplastic housing
2.y	Ease of storage	The system comes with wheels option for storage.
2.z	Data management	Information not found on website
2.aa	Onboard memory storage	Information not found on website
2.bb	Power requirements	90-265 VAC; 50-60Hz ±3Hz
2.cc	Battery discharge time	Information not found on website
2.dd	Battery shelf life (months)	Information not found on website
2.ee	Battery recharge time (hours)	Information not found on website
2.ff	Battery replacement procedure	Information not found on website
2.gg	Supplemental charger options	Information not found on website
2.hh	Safety compliances	Information not found on website
2.ii	Radiation safety standards	Information not found on website
2.jj	Length of warranty (months)	12 months
2.kk	Auxiliary equipment	<ul style="list-style-type: none"> • Remote command center • 24 inch and custom widths • Battery backup • Matching key side table • Remote annunciator panel • Sensor • Floor anchor kit • Wheels • Tools-free hardware • Weatherization • Custom laminate housing color • Traffic counter
2.ll	Manufacturer suggested retail price	Information not found on website
2.mm	Extended maintenance plans	Information not found on website
2.nn	Service contract costs	Information not found on website
2.oo	Other information	<ul style="list-style-type: none"> • RFI rejection from 25 to 1000 MHz • Digital signal processing circuitry

		<ul style="list-style-type: none"> • 0-99 selectable sensitivity range settings • 70 standard programs • LCD indicates settings, operational menus, and diagnostic functions • Built-in diagnostics
--	--	---

RFI Q.#	Survey Question (abbreviated)	Response
Usability/Training		
5.a	Usability validation processes	Information not found on website
5.b	User community data	Information not found on website
5.c	User-group meetings and frequency	Information not found on website
5.d	Typical problems reported	Information not found on website
5.d.i	Resolution to problems	Information not found on website
5.e	Hours of tech. support and location	Information not found on website
5.f	Calibration requirements	Information not found on website
5.g	Training provided (hours)	Information not found on website

RFI Q.#	Survey Question (abbreviated)	Response
Features and Functions		
6.a	Types of formalize reports	Information not found on website
6.b	Types of on-demand reports	Information not found on website

RFI Q.#	Survey Question (abbreviated)	Response
Performance and Security		
7.a	Average installation time	Information not found on website
7.b	False positive / false negative rates	Information not found on website
7.c	Mean time to failure	Information not found on website
7.d	Percent downtime	Information not found on website
7.e	Data protection mechanisms	Information not found on website
7.f	Database record management	Information not found on website

5.25 Autoclear 9000P



Figure 25. Autoclear 9000P

Person-Borne

RFI Q.#	Survey Question (abbreviated)	Response
Vendor Information		
0	Responded to FRN?	No
1.a	Name	Autoclear LLC
1.b	Address/phone number	2 Gardner Road, Fairfield, NJ 07004 (973) 276-6161
1.c	Website	www.a-clear.com
1.d	Years in business	75 years
1.e	Number and types of customers	66,000 customers
1.f	Manufacturing location(s)	Information not found on website

RFI Q.#	Survey Question (abbreviated)	Response
Product Information – Person-borne Contraband Detection		
2.a	Name and model number	9000P Detection Portal
2.b	Primary product purpose	Detection for ferrous and non-ferrous metal weapons, bomb components, and contraband
2.c	Physical dims (HxWxD, inches)	24" D x 35" W x 87" H
2.d	Operational dims (detection area)	28" W x 79.5" H
2.e	Weight (lbs)	100 lbs
2.f	Portability (e.g., fixed, handheld)	Fixed

2.g	Intended environment (e.g., indoor)	Indoor
2.h	Operation conditions/limitations	Operating Temperature: -10°C to 55°C (14 to 131 °F) Humidity: 0-98% (non-condensing)
2.i	Ability to detect metal objects	Yes
2.i.i	Types of metals detected	Ferrous and non-ferrous metals
2.i.ii	Types of metals NOT detected	Information not found on website
2.j	Ability to detect non-metal objects	Yes
2.j.i	Types of non-metals detected	Bomb components and contraband
2.k	Ability to detect in body cavities	Information not found on website
2.k.i	Types of body cavities penetrable	Information not found on website
2.l	Ability to detect other contraband	Information not found on website
2.m	Modes of operation	Information not found on website
2.n	Number of detection areas	Information not found on website
2.o	Type of detector used	Information not found on website
2.p	Minimum object size detectable	Information not found on website
2.p.i	Size on a person	Information not found on website
2.p.ii	Size in a body cavity	Information not found on website
2.q	Total inspection time (sec/person)	Information not found on website
2.r	Penetration depth (inches)	Information not found on website
2.s	Alert/alarm mechanism	LED power and audio/visual alarm status indicators
2.t	Average time to gen. alarm	Information not found on website
2.u	Privacy safeguards/features	Information not found on website
2.v	Number of rec. operators	Information not found on website
2.w	Tampering safeguards	Information not found on website
2.x	Sturdiness/fragility of material	Thermoplastic housing
2.y	Ease of storage	The system comes with wheels option for storage.
2.z	Data management	Information not found on website
2.aa	Onboard memory storage	Information not found on website
2.bb	Power requirements	90-265 VAC; 50-60Hz ±3Hz
2.cc	Battery discharge time	Information not found on website
2.dd	Battery shelf life (months)	Information not found on website
2.ee	Battery recharge time (hours)	Information not found on website
2.ff	Battery replacement procedure	Information not found on website
2.gg	Supplemental charger options	Information not found on website
2.hh	Safety compliances	Information not found on website
2.ii	Radiation safety standards	Information not found on website
2.jj	Length of warranty (months)	12 months
2.kk	Auxiliary equipment	<ul style="list-style-type: none"> • Remote command center • 24 inch and custom widths • Battery backup • Matching key side table • Remote annunciator panel • Sensor • Floor anchor kit • Wheels • Tools-free hardware • Weatherization • Custom laminate housing color • Traffic counter
2.ll	Manufacturer suggested retail price	Information not found on website
2.mm	Extended maintenance plans	Information not found on website
2.nn	Service contract costs	Information not found on website
2.oo	Other information	<ul style="list-style-type: none"> • Digital signal processing circuitry

		<ul style="list-style-type: none"> • 0-99 selectable sensitivity range settings • 100 standard programs • LCD indicates settings, operational menus, and diagnostic functions • Built-in diagnostics • Cable-free installation with four selectable audio ringtones
--	--	--

RFI Q.#	Survey Question (abbreviated)	Response
Usability/Training		
5.a	Usability validation processes	Information not found on website
5.b	User community data	Information not found on website
5.c	User-group meetings and frequency	Information not found on website
5.d	Typical problems reported	Information not found on website
5.d.i	Resolution to problems	Information not found on website
5.e	Hours of tech. support and location	Information not found on website
5.f	Calibration requirements	Information not found on website
5.g	Training provided (hours)	Information not found on website

RFI Q.#	Survey Question (abbreviated)	Response
Features and Functions		
6.a	Types of formalize reports	Information not found on website
6.b	Types of on-demand reports	Information not found on website

RFI Q.#	Survey Question (abbreviated)	Response
Performance and Security		
7.a	Average installation time	Information not found on website
7.b	False positive / false negative rates	Information not found on website
7.c	Mean time to failure	Information not found on website
7.d	Percent downtime	Information not found on website
7.e	Data protection mechanisms	Information not found on website
7.f	Database record management	Information not found on website

5.26 Autoclear Models 20 and 21



Figure 26. Autoclear Models 20 and 21

Person-Borne

RFI Q.#	Survey Question (abbreviated)	Response
Vendor Information		
0	Responded to FRN?	No
1.a	Name	Autoclear LLC
1.b	Address/phone number	2 Gardner Road, Fairfield, NJ 07004 (973) 276-6161
1.c	Website	www.a-clear.com
1.d	Years in business	75 years
1.e	Number and types of customers	66,000 customers
1.f	Manufacturing location(s)	Information not found on website

RFI Q.#	Survey Question (abbreviated)	Response
Product Information – Person-borne Contraband Detection		
2.a	Name and model number	Handwand Models 20 and 21
2.b	Primary product purpose	Fully digital handwand designed to resist extreme impact, temperature, and humidity conditions while searching for metal weapons and contraband
2.c	Physical dims (HxWxD, inches)	2.4" H x 3.6" W x 17.0" D
2.d	Operational dims (detection area)	0.8" H x 3.4" W x 8.5" D
2.e	Weight (lbs)	0.7 lbs with battery
2.f	Portability (e.g., fixed, handheld)	Handheld
2.g	Intended environment (e.g., indoor)	Indoor or outdoor
2.h	Operation conditions/limitations	Humidity: 0-98% (non-condensing)
2.i	Ability to detect metal objects	Yes
2.i.i	Types of metals detected	Ferrous and non-ferrous metals
2.i.ii	Types of metals NOT detected	Information not found on website

2.j	Ability to detect non-metal objects	No
2.j.i	Types of non-metals detected	N/A
2.k	Ability to detect in body cavities	Information not found on website
2.k.i	Types of body cavities penetrable	Information not found on website
2.l	Ability to detect other contraband	Information not found on website
2.m	Modes of operation	Information not found on website
2.n	Number of detection areas	Information not found on website
2.o	Type of detector used	Information not found on website
2.p	Minimum object size detectable	Information not found on website
2.p.i	Size on a person	Information not found on website
2.p.ii	Size in a body cavity	Information not found on website
2.q	Total inspection time (sec/person)	Information not found on website
2.r	Penetration depth (inches)	Depth depends on the size of the metal object
2.s	Alert/alarm mechanism	Top mounted red LED; audio alarm with medium or high volume settings and three selectable audio ringtones; vibration mode
2.t	Average time to gen. alarm	Information not found on website
2.u	Privacy safeguards/features	Information not found on website
2.v	Number of rec. operators	Information not found on website
2.w	Tampering safeguards	Internal controls eliminate tampering
2.x	Sturdiness/fragility of material	Seamless, 0.12 in thick high-impact thermoplastic
2.y	Ease of storage	Information not found on website
2.z	Data management	Information not found on website
2.aa	Onboard memory storage	Information not found on website
2.bb	Power requirements	9 volt alkaline battery
2.cc	Battery discharge time	130 hours
2.dd	Battery shelf life (months)	Information not found on website
2.ee	Battery recharge time (hours)	Information not found on website
2.ff	Battery replacement procedure	Tool-free battery replacement
2.gg	Supplemental charger options	Information not found on website
2.hh	Safety compliances	Information not found on website
2.ii	Radiation safety standards	Information not found on website
2.jj	Length of warranty (months)	12 months parts and labor; lifetime warranty on case
2.kk	Auxiliary equipment	<ul style="list-style-type: none"> Digital circuitry Programmable sensitivity Internal sensitivity adjustment
2.ll	Manufacturer suggested retail price	Information not found on website
2.mm	Extended maintenance plans	Information not found on website
2.nn	Service contract costs	Information not found on website
2.oo	Other information	<ul style="list-style-type: none"> Variable tone rate differentiates real targets from harmless objects Model 21 comes with a weighted case

RFI Q.#	Survey Question (abbreviated)	Response
Usability/Training		
5.a	Usability validation processes	Information not found on website
5.b	User community data	Information not found on website
5.c	User-group meetings and frequency	Information not found on website
5.d	Typical problems reported	Information not found on website
5.d.i	Resolution to problems	Information not found on website
5.e	Hours of tech. support and location	Information not found on website
5.f	Calibration requirements	Information not found on website

5.g	Training provided (hours)	Information not found on website
-----	---------------------------	----------------------------------

RFI Q.#	Survey Question (abbreviated)	Response
Features and Functions		
6.a	Types of formalize reports	Information not found on website
6.b	Types of on-demand reports	Information not found on website

RFI Q.#	Survey Question (abbreviated)	Response
Performance and Security		
7.a	Average installation time	Information not found on website
7.b	False positive / false negative rates	Low false alarm rates
7.c	Mean time to failure	Information not found on website
7.d	Percent downtime	Information not found on website
7.e	Data protection mechanisms	Information not found on website
7.f	Database record management	Information not found on website

5.27 Autoclear MZ4



Figure 27. Autoclear MZ4

Person-Borne

RFI Q.#	Survey Question (abbreviated)	Response
Vendor Information		
0	Responded to FRN?	No
1.a	Name	Autoclear LLC
1.b	Address/phone number	2 Gardner Road, Fairfield, NJ 07004 (973) 276-6161
1.c	Website	www.a-clear.com
1.d	Years in business	75 years
1.e	Number and types of customers	66,000 customers
1.f	Manufacturing location(s)	Information not found on website

RFI Q.#	Survey Question (abbreviated)	Response
Product Information – Person-borne Contraband Detection		
2.a	Name and model number	MZ4 Detection Portal
2.b	Primary product purpose	Multi-zone detection for guns, knives, and bomb parts
2.c	Physical dims (HxWxD, inches)	24" H x 35" W x 87" D
2.d	Operational dims (detection area)	28" W x 79.5" H
2.e	Weight (lbs)	140 lbs
2.f	Portability (e.g., fixed, handheld)	Fixed
2.g	Intended environment (e.g., indoor)	Indoor
2.h	Operation conditions/limitations	Operating Temperature: -10°C to 55°C (14 to 131 °F)

		Humidity: 0-98% (non-condensing)
2.i	Ability to detect metal objects	Yes
2.i.i	Types of metals detected	Guns, knives, and bomb parts
2.i.ii	Types of metals NOT detected	Information not found on website
2.j	Ability to detect non-metal objects	Yes
2.j.i	Types of non-metals detected	Bomb components and contraband
2.k	Ability to detect in body cavities	Information not found on website
2.k.i	Types of body cavities penetrable	Information not found on website
2.l	Ability to detect other contraband	Information not found on website
2.m	Modes of operation	Information not found on website
2.n	Number of detection areas	Information not found on website
2.o	Type of detector used	Information not found on website
2.p	Minimum object size detectable	Information not found on website
2.p.i	Size on a person	Information not found on website
2.p.ii	Size in a body cavity	Information not found on website
2.q	Total inspection time (sec/person)	Information not found on website
2.r	Penetration depth (inches)	Information not found on website
2.s	Alert/alarm mechanism	LED power and audio/visual alarm status indicators
2.t	Average time to gen. alarm	Information not found on website
2.u	Privacy safeguards/features	Information not found on website
2.v	Number of rec. operators	Information not found on website
2.w	Tampering safeguards	Information not found on website
2.x	Sturdiness/fragility of material	Architectural plastic housing
2.y	Ease of storage	Information not found on website
2.z	Data management	Information not found on website
2.aa	Onboard memory storage	Information not found on website
2.bb	Power requirements	90-265 VAC; 50-60Hz ±3Hz
2.cc	Battery discharge time	Information not found on website
2.dd	Battery shelf life (months)	Information not found on website
2.ee	Battery recharge time (hours)	Information not found on website
2.ff	Battery replacement procedure	Information not found on website
2.gg	Supplemental charger options	Information not found on website
2.hh	Safety compliances	Information not found on website
2.ii	Radiation safety standards	Information not found on website
2.jj	Length of warranty (months)	12 months
2.kk	Auxiliary equipment	<ul style="list-style-type: none"> • Remote command center • 24 inch and custom widths • Battery backup • Matching key side table • Remote annunciator panel • Sensor • Floor anchor kit • Tools-free hardware • Weatherization • Custom laminate housing color
2.ll	Manufacturer suggested retail price	Information not found on website
2.mm	Extended maintenance plans	Information not found on website
2.nn	Service contract costs	Information not found on website
2.oo	Other information	<ul style="list-style-type: none"> • Digital signal processing circuitry • 0-99 selectable sensitivity range settings • 100 standard programs • LCD indicates settings, operational menus, and diagnostic functions

		• Traffic counter
--	--	-------------------

RFI Q.#	Survey Question (abbreviated)	Response
Usability/Training		
5.a	Usability validation processes	Information not found on website
5.b	User community data	Information not found on website
5.c	User-group meetings and frequency	Information not found on website
5.d	Typical problems reported	Information not found on website
5.d.i	Resolution to problems	Information not found on website
5.e	Hours of tech. support and location	Information not found on website
5.f	Calibration requirements	Information not found on website
5.g	Training provided (hours)	Information not found on website

RFI Q.#	Survey Question (abbreviated)	Response
Features and Functions		
6.a	Types of formalize reports	Information not found on website
6.b	Types of on-demand reports	Information not found on website

RFI Q.#	Survey Question (abbreviated)	Response
Performance and Security		
7.a	Average installation time	Information not found on website
7.b	False positive / false negative rates	Information not found on website
7.c	Mean time to failure	Information not found on website
7.d	Percent downtime	Information not found on website
7.e	Data protection mechanisms	Information not found on website
7.f	Database record management	Information not found on website

5.28 Autoclear MZ8



Figure 28. Autoclear MZ8

Person-Borne

RFI Q.#	Survey Question (abbreviated)	Response
Vendor Information		
0	Responded to FRN?	No
1.a	Name	Autoclear LLC
1.b	Address/phone number	2 Gardner Road, Fairfield, NJ 07004 (973) 276-6161
1.c	Website	www.a-clear.com
1.d	Years in business	75 years
1.e	Number and types of customers	66,000 customers
1.f	Manufacturing location(s)	Information not found on website

RFI Q.#	Survey Question (abbreviated)	Response
Product Information – Person-borne Contraband Detection		
2.a	Name and model number	MZ8 Detection Portal
2.b	Primary product purpose	Multi-zone detection for metal weapons, bomb parts, and contraband within eight horizontal zones
2.c	Physical dims (HxWxD, inches)	24" H x 35" W x 87" D
2.d	Operational dims (detection area)	28" W x 79.5" H
2.e	Weight (lbs)	140 lbs
2.f	Portability (e.g., fixed, handheld)	Fixed
2.g	Intended environment (e.g., indoor)	Indoor

2.h	Operation conditions/limitations	Operating Temperature: -10°C to 55°C (14 to 131 °F) Humidity: 0-98% (non-condensing)
2.i	Ability to detect metal objects	Yes
2.i.i	Types of metals detected	Metal weapons, bomb parts
2.i.ii	Types of metals NOT detected	Information not found on website
2.j	Ability to detect non-metal objects	Yes
2.j.i	Types of non-metals detected	Bomb components and contraband
2.k	Ability to detect in body cavities	Information not found on website
2.k.i	Types of body cavities penetrable	Information not found on website
2.l	Ability to detect other contraband	Information not found on website
2.m	Modes of operation	Information not found on website
2.n	Number of detection areas	Information not found on website
2.o	Type of detector used	Information not found on website
2.p	Minimum object size detectable	Information not found on website
2.p.i	Size on a person	Information not found on website
2.p.ii	Size in a body cavity	Information not found on website
2.q	Total inspection time (sec/person)	Information not found on website
2.r	Penetration depth (inches)	Information not found on website
2.s	Alert/alarm mechanism	LED power and audio/visual alarm status indicators
2.t	Average time to gen. alarm	Information not found on website
2.u	Privacy safeguards/features	Information not found on website
2.v	Number of rec. operators	Information not found on website
2.w	Tampering safeguards	Information not found on website
2.x	Sturdiness/fragility of material	Architectural plastic housing
2.y	Ease of storage	Information not found on website
2.z	Data management	Information not found on website
2.aa	Onboard memory storage	Information not found on website
2.bb	Power requirements	90-265 VAC; 50-60Hz ±3Hz
2.cc	Battery discharge time	Information not found on website
2.dd	Battery shelf life (months)	Information not found on website
2.ee	Battery recharge time (hours)	Information not found on website
2.ff	Battery replacement procedure	Information not found on website
2.gg	Supplemental charger options	Information not found on website
2.hh	Safety compliances	Information not found on website
2.ii	Radiation safety standards	Information not found on website
2.jj	Length of warranty (months)	12 months
2.kk	Auxiliary equipment	<ul style="list-style-type: none"> • Remote command center • 24 inch and custom widths • Battery backup • Matching key side table • Floor anchor kit • Built-in power conditioner • Tools-free hardware • Weatherization • Custom laminate housing color
2.ll	Manufacturer suggested retail price	Information not found on website
2.mm	Extended maintenance plans	Information not found on website
2.nn	Service contract costs	Information not found on website
2.oo	Other information	<ul style="list-style-type: none"> • Digital signal processing circuitry • 0-99 selectable sensitivity range settings • 100 standard programs • Multi-field antennas • LCD indicates settings, operational menus, and

		diagnostic functions <ul style="list-style-type: none"> Traffic counter
--	--	--

RFI Q.#	Survey Question (abbreviated)	Response
Usability/Training		
5.a	Usability validation processes	Information not found on website
5.b	User community data	Information not found on website
5.c	User-group meetings and frequency	Information not found on website
5.d	Typical problems reported	Information not found on website
5.d.i	Resolution to problems	Information not found on website
5.e	Hours of tech. support and location	Information not found on website
5.f	Calibration requirements	Information not found on website
5.g	Training provided (hours)	Information not found on website

RFI Q.#	Survey Question (abbreviated)	Response
Features and Functions		
6.a	Types of formalize reports	Information not found on website
6.b	Types of on-demand reports	Information not found on website

RFI Q.#	Survey Question (abbreviated)	Response
Performance and Security		
7.a	Average installation time	Information not found on website
7.b	False positive / false negative rates	Information not found on website
7.c	Mean time to failure	Information not found on website
7.d	Percent downtime	Information not found on website
7.e	Data protection mechanisms	Information not found on website
7.f	Database record management	Information not found on website

5.29 Autoclear SuperOmniPlus



Figure 29. Autoclear SuperOmniPlus

Person-Borne

RFI Q.#	Survey Question (abbreviated)	Response
Vendor Information		
0	Responded to FRN?	No
1.a	Name	Autoclear LLC
1.b	Address/phone number	2 Gardner Road, Fairfield, NJ 07004 (973) 276-6161
1.c	Website	www.a-clear.com
1.d	Years in business	75 years
1.e	Number and types of customers	66,000 customers
1.f	Manufacturing location(s)	Information not found on website

RFI Q.#	Survey Question (abbreviated)	Response
Product Information – Person-borne Contraband Detection		
2.a	Name and model number	Autoclear SuperOmniPlus
2.b	Primary product purpose	Detects the complete range of ferrous and non-ferrous metals from every direction, no matter how the grip is held
2.c	Physical dims (HxWxD, inches)	18.5" H x 2.5" W x 1.0" D
2.d	Operational dims (detection area)	Probe length: 10"
2.e	Weight (lbs)	0.9 lbs with battery
2.f	Portability (e.g., fixed, handheld)	Handheld
2.g	Intended environment (e.g., indoor)	Indoor or outdoor

2.h	Operation conditions/limitations	Operating Temperature: -10° C to 60° C (14 to 140 °F) Humidity: 95% (non-condensing)
2.i	Ability to detect metal objects	Yes
2.i.i	Types of metals detected	Ferrous and non-ferrous metals
2.i.ii	Types of metals NOT detected	Information not found on website
2.j	Ability to detect non-metal objects	No
2.j.i	Types of non-metals detected	N/A
2.k	Ability to detect in body cavities	Information not found on website
2.k.i	Types of body cavities penetrable	Information not found on website
2.l	Ability to detect other contraband	Information not found on website
2.m	Modes of operation	Information not found on website
2.n	Number of detection areas	360 degrees of detection performance
2.o	Type of detector used	Information not found on website
2.p	Minimum object size detectable	Information not found on website
2.p.i	Size on a person	Information not found on website
2.p.ii	Size in a body cavity	Information not found on website
2.q	Total inspection time (sec/person)	Information not found on website
2.r	Penetration depth (inches)	Depth depends on the size of the metal object
2.s	Alert/alarm mechanism	Piezo audio output: 80-85 dB
2.t	Average time to gen. alarm	Information not found on website
2.u	Privacy safeguards/features	Information not found on website
2.v	Number of rec. operators	One
2.w	Tampering safeguards	Internal controls eliminate tampering
2.x	Sturdiness/fragility of material	ABS-free thermoplastic housing; virtually unbreakable
2.y	Ease of storage	Information not found on website
2.z	Data management	Information not found on website
2.aa	Onboard memory storage	Information not found on website
2.bb	Power requirements	9 volt alkaline battery or rechargeable
2.cc	Battery discharge time	Information not found on website
2.dd	Battery shelf life (months)	Information not found on website
2.ee	Battery recharge time (hours)	Information not found on website
2.ff	Battery replacement procedure	Information not found on website
2.gg	Supplemental charger options	Battery charger (110 v 60 Hz)
2.hh	Safety compliances	Information not found on website
2.ii	Radiation safety standards	Information not found on website
2.jj	Length of warranty (months)	Information not found on website
2.kk	Auxiliary equipment	<ul style="list-style-type: none"> Advanced microprocessor design Piezo audio output: 80-85 dB
2.ll	Manufacturer suggested retail price	Information not found on website
2.mm	Extended maintenance plans	Information not found on website
2.nn	Service contract costs	Information not found on website
2.oo	Other information	<ul style="list-style-type: none"> No false alarms due to rapid movement

RFI Q.#	Survey Question (abbreviated)	Response
Usability/Training		
5.a	Usability validation processes	Information not found on website
5.b	User community data	Information not found on website
5.c	User-group meetings and frequency	Information not found on website
5.d	Typical problems reported	Information not found on website
5.d.i	Resolution to problems	Information not found on website
5.e	Hours of tech. support and location	Information not found on website
5.f	Calibration requirements	Information not found on website

5.g	Training provided (hours)	Information not found on website
-----	---------------------------	----------------------------------

RFI Q.#	Survey Question (abbreviated)	Response
Features and Functions		
6.a	Types of formalize reports	N/A
6.b	Types of on-demand reports	N/A

RFI Q.#	Survey Question (abbreviated)	Response
Performance and Security		
7.a	Average installation time	Information not found on website
7.b	False positive / false negative rates	Low false alarm rates
7.c	Mean time to failure	Information not found on website
7.d	Percent downtime	Information not found on website
7.e	Data protection mechanisms	Information not found on website
7.f	Database record management	Information not found on website

5.30 Berkeley Varitronics (BV) Systems MantaRay



Figure 30. BV Systems MantaRay

Person-Borne **Environmental**

RFI Q.#	Survey Question (abbreviated)	Response
Vendor Information		
0	Responded to FRN?	Yes
1.a	Name	Berkeley Varitronics Systems, Inc.
1.b	Address/phone number	255 Liberty Street, Metuchen, NJ 08840
1.c	Website	www.bvsystems.com
1.d	Years in business	43 years
1.e	Number and types of customers	No information provided
1.f	Manufacturing location(s)	255 Liberty Street, Metuchen, NJ 08840

RFI Q.#	Survey Question (abbreviated)	Response
Product Information – Person-borne Contraband Detection		
2.a	Name and model number	MantaRay 0086-MR
2.b	Primary product purpose	Detect hidden cell phones under clothes, in body cavities and in containers not exceeding 12 inches in the largest dimension. Detection of cell phones hidden in walls up to 6 inches deep.
2.c	Physical dims (HxWxD, inches)	7" H x 3" W x 2" D
2.d	Operational dims (detection area)	Maximum 6" from head-end of unit in the manual mode, 12" maximum from head-end of unit in the static (table-

		top) mode.
2.e	Weight (lbs)	0.6 lbs
2.f	Portability (e.g., fixed, handheld)	Portable, hand-held and fixed modes
2.g	Intended environment (e.g., indoor)	Indoor use but may be used outdoors in non-extreme environments. Not for use in rain, snow, extreme heat or cold.
2.h	Operation conditions/limitations	Most applications are for room temperature and humidity.
2.i	Ability to detect metal objects	Yes
2.i.i	Types of metals detected	Ferrous metals (contains Iron).
2.i.ii	Types of metals NOT detected	Non-Ferrous metals such as coins and fine jewelry.
2.j	Ability to detect non-metal objects	No
2.j.i	Types of non-metals detected	None
2.k	Ability to detect in body cavities	Detection of cell phones or ferrous metals to a depth of 6 inches.
2.k.i	Types of body cavities penetrable	Rectum, vagina, mouth
2.l	Ability to detect other contraband	Detection of other electronic devices that can transmit radio frequencies such as Bluetooth earpiece, MP3 player, remote control key fob for automobiles, etc.
2.m	Modes of operation	1) Manual swipe mode, and 2) Table-top static mode
2.n	Number of detection areas	Single detection area at the head-end of the unit.
2.o	Type of detector used	MantaRay employs the use of a passive ferromagnetic detection sensor.
2.p	Minimum object size detectable	Subjective due to the amount of magnetic charge the contraband item may have.
2.p.i	Size on a person	N/A
2.p.ii	Size in a body cavity	N/A
2.q	Total inspection time (sec/person)	On average, about 90 seconds per person.
2.r	Penetration depth (inches)	Maximum of six inches.
2.s	Alert/alarm mechanism	Audible alarm, bullseye on LCD screen and flashing blue LED lights on head-end of unit.
2.t	Average time to gen. alarm	Instantaneous when swiped over qualifying contraband.
2.u	Privacy safeguards/features	N/A
2.v	Number of rec. operators	Only one, the user
2.w	Tampering safeguards	N/A
2.x	Sturdiness/fragility of material	Durable plastic case, lanyard, clip.
2.y	Ease of storage	Can hang from belt or lanyard when not in use.
2.z	Data management	N/A
2.aa	Onboard memory storage	N/A
2.bb	Power requirements	9 volts DC via disposable or rechargeable battery. DC supply adapter included for static use on table-top.
2.cc	Battery discharge time	Up to 3 hours on a single 9 volt battery.
2.dd	Battery shelf life (months)	N/A or not known.
2.ee	Battery recharge time (hours)	N/A
2.ff	Battery replacement procedure	Field replaceable standard 9 volt DC battery performed by the user.
2.gg	Supplemental charger options	MantaRay ships with an external DC power supply for when the unit is used in the static mode.
2.hh	Safety compliances	N/A. The unit generates no energy field or disturbances.
2.ii	Radiation safety standards	N/A
2.jj	Length of warranty (months)	12 months
2.kk	Auxiliary equipment	None
2.ll	Manufacturer suggested retail price	\$599
2.mm	Extended maintenance plans	1 and 2-year extended warranty plans available.

2.nn	Service contract costs	Repair costs quoted on an as-needed basis after the unit is returned to BVS under an RMA number.
2.oo	Other information	None

RFI Q.#	Survey Question (abbreviated)	Response
Product Information – Environmental-borne Contraband Detection		
4.a	Name and model number	MantaRay 0086-MR
4.b	Primary product purpose	Detect hidden cell phones under clothes, in body cavities and in containers not exceeding 12 inches in the largest dimension. Detection of cell phones hidden in walls up to 6 inches deep.
4.c	Physical dims (HxWxD, inches)	7" H x 3" W x 2" D
4.d	Operational dims (detection area)	Maximum 6" from head-end of unit in the manual mode, 12" maximum from head-end of unit in the static (table-top) mode.
4.e	Weight (lbs)	0.63 lbs
4.f	Portability (e.g., fixed, handheld)	Portable, hand-held and fixed modes
4.g	Operation conditions/limitations	Most applications are for room temperature and humidity.
4.h	Ability to detect metal objects	Yes
4.h.i	Types of metals detected	Ferrous metals (contains Iron).
4.h.ii	Types of metals NOT detected	Non-Ferrous metals such as coins and fine jewelry.
4.i	Ability to detect non-metal objects	No
4.i.i	Types of non-metals detected	None
4.j	Ability to detect other contraband	Detection of other electronic devices that can transmit radio frequencies such as Bluetooth earpiece, MP3 player, remote control key fob for automobiles, etc.
4.k	Modes of operation	1) Manual swipe mode, and 2) Table-top static mode
4.l	Number of detection areas	Single detection area at the head-end of the unit.
4.m	Type of detector used	MantaRay employs the use of a passive ferromagnetic detection sensor.
4.n	Minimum object size detectable	Subjective due to the amount of magnetic charge the contraband item may have.
4.o	Maximum object size detectable	No information provided
4.p	Alert/alarm mechanism	Audible alarm, bullseye on LCD screen and flashing blue LED lights on head-end of unit.
4.q	Average time to gen. alarm	Instantaneous when swiped over qualifying contraband.
4.r	Number of rec. operators	Only one, the user
4.s	Tampering safeguards	N/A
4.t	Sturdiness/fragility of material	Durable plastic case, lanyard, clip.
4.u	Ease of storage	Can hang from belt or lanyard when not in use.
4.v	Data management	N/A
4.w	Onboard memory storage	N/A
4.x	Power requirements	9 volts DC via disposable or rechargeable battery. DC supply adapter included for static use on table-top.
4.y	Battery discharge time	Up to 3 hours on a single 9 volt battery.
4.z	Battery shelf life (months)	N/A or not known.
4.aa	Battery recharge time (hours)	N/A
4.bb	Battery replacement procedure	Field replaceable standard 9 volt DC battery performed by the user.
4.cc	Supplemental charger options	MantaRay ships with an external DC power supply for when the unit is used in the static mode.
4.dd	Safety compliances	N/A. The unit generates no energy field or disturbances.

4.ee	Radiation safety standards	N/A
4.ff	Length of warranty (months)	12 month warranty
4.gg	Auxiliary equipment	None
4.hh	Manufacturer suggested retail price	\$599
4.ii	Extended maintenance plans	1 and 2-year extended warranty plans available.
4.jj	Service contract costs	Repair costs quoted on an as-needed basis after the unit is returned to BVS under an RMA number.
4.kk	Other information	None

RFI Q.#	Survey Question (abbreviated)	Response
Usability/Training		
5.a	Usability validation processes	Requirements gathering, sensor technology reviews, battery technology design review, ergonomics, beta testing by target market prospect clients.
5.b	User community data	Surveys from prospect clients, hands-on evaluation of beta prototype unit. Info collected, reviewed and implemented prior to production phase.
5.c	User-group meetings and frequency	In-person demo usually at the beginning or during the concept phase. Custom designs are also offered to clients that are entertaining a large quantity order with BVS.
5.d	Typical problems reported	Battery life (same problems as cell phone batteries).
5.d.i	Resolution to problems	Replaced internal battery under warranty.
5.e	Hours of tech. support and location	BVS Customer Support is open from Monday-Friday from 8:30AM - 5:00 PM via telephone, e-mail or SKYPE
5.f	Calibration requirements	No calibration is required for the BVS cell phone detection models offered in this RFI.
5.g	Training provided (hours)	Formal Factory Authorized Training is available on any BVS product for a fee. Training may take place at the customer's site (preferred) or at BVS' Headquarters in Metuchen, NJ. In most cases, 4 hours to a full day on each model will suffice. This time includes hands-on use with the instrument.

RFI Q.#	Survey Question (abbreviated)	Response
Features and Functions		
6.a	Types of formalize reports	Ad-hoc graphical reports of cell phone detection statistics as well as SQL database queries are available.
6.b	Types of on-demand reports	Graphical format with "events" on the Y-axis and "time" on the X-axis.

RFI Q.#	Survey Question (abbreviated)	Response
Performance and Security		
7.a	Average installation time	Less than 5 minutes
7.b	False positive / false negative rates	A recent study performed by NLECTC/NIJ contains some very exhaustive testing of the three models offered in this RFI. The title of this document is "TEST AND EVALUATION OF HAND-HELD CELL PHONE DETECTION DEVICES GUIDEBOOK." Prepared for National Law Enforcement and Corrections Technology Center. By John S. Shaffer, Ph.D., Institutional

		Corrections Program Manager, Corrections Technology Center of Excellence, Joe Russo, Director, Corrections Technology Center of Excellence. June 2015
7.c	Mean time to failure	BVS has found that the Li-Ion battery technology is the primary cause of any failure with devices. Cell phones use the same type of battery technology. Company reports an average of every 2 years for replacing these internal battery systems.
7.d	Percent downtime	Barring a battery problem, percent availability is at or near 100%.
7.e	Data protection mechanisms	No data protection mechanisms are applicable.
7.f	Database record management	None

5.31 Berkeley Varitronics (BV) Systems PocketHound



Figure 31. BV Systems PocketHound

Person-Borne

Environmental

RFI Q.#	Survey Question (abbreviated)	Response
Vendor Information		
0	Responded to FRN?	Yes
1.a	Name	Berkeley Varitronics Systems, Inc.
1.b	Address/phone number	255 Liberty Street, Metuchen, NJ 08840
1.c	Website	www.bvsystems.com
1.d	Years in business	43 years
1.e	Number and types of customers	No information provided
1.f	Manufacturing location(s)	255 Liberty Street, Metuchen, NJ 08840

RFI Q.#	Survey Question (abbreviated)	Response
Product Information – Person-borne Contraband Detection		
2.a	Name and model number	PocketHound 0060-PH
2.b	Primary product purpose	Detect cell phones that are switched "on" and in use.
2.c	Physical dims (HxWxD, inches)	4.3" H x 2.8" W x 0.8" D
2.d	Operational dims (detection area)	Maximum 75 feet from front of the PocketHound.
2.e	Weight (lbs)	0.5 lbs
2.f	Portability (e.g., fixed, handheld)	Portable, hand-held and fixed modes
2.g	Intended environment (e.g., indoor)	Indoor use but may be used outdoors in non-extreme environments. Not for use in rain, snow, extreme heat or cold.

2.h	Operation conditions/limitations	Most applications are for room temperature and humidity.
2.i	Ability to detect metal objects	No
2.i.i	Types of metals detected	N/A
2.i.ii	Types of metals NOT detected	N/A
2.j	Ability to detect non-metal objects	No; None of these listed materials are detected by the PocketHound.
2.j.i	Types of non-metals detected	None
2.k	Ability to detect in body cavities	Detection of operating cell phones from a maximum distance of 75 feet.
2.k.i	Types of body cavities penetrable	Rectum, vagina, mouth
2.l	Ability to detect other contraband	N/A
2.m	Modes of operation	1) Manual threshold setting, and 2) Auto threshold setting.
2.n	Number of detection areas	PocketHound will alert on the cell phone with the strongest signal present in a given area.
2.o	Type of detector used	PocketHound employs a radio frequency continuous wave detector and proprietary envelope algorithms.
2.p	Minimum object size detectable	N/A
2.p.i	Size on a person	N/A
2.p.ii	Size in a body cavity	N/A
2.q	Total inspection time (sec/person)	N/A
2.r	Penetration depth (inches)	N/A
2.s	Alert/alarm mechanism	Vibration alarm and flashing blue LED lights for cell phone signal strength on head-end of unit.
2.t	Average time to gen. alarm	Instantaneous when cell phones are placed into use in the detection area (maximum distance away is 75 feet).
2.u	Privacy safeguards/features	N/A
2.v	Number of rec. operators	Only one, the user
2.w	Tampering safeguards	N/A
2.x	Sturdiness/fragility of material	Durable plastic case. One-piece design.
2.y	Ease of storage	Can be placed in a drawer, pocket or glove box when not in use.
2.z	Data management	N/A
2.aa	Onboard memory storage	N/A
2.bb	Power requirements	Internal rechargeable battery. DC charging adapter for 120 VAC included.
2.cc	Battery discharge time	Up to 2 hours.
2.dd	Battery shelf life (months)	N/A
2.ee	Battery recharge time (hours)	Approximately 2-3 hours.
2.ff	Battery replacement procedure	Internal battery must be serviced/replaced at BVS' factory in NJ.
2.gg	Supplemental charger options	PocketHound ships with a DC charging adapter but additional adapters may be ordered as spares.
2.hh	Safety compliances	N/A. The unit generates no energy field or disturbances.
2.ii	Radiation safety standards	N/A
2.jj	Length of warranty (months)	12 months
2.kk	Auxiliary equipment	External booster battery available as an option.
2.ll	Manufacturer suggested retail price	\$499
2.mm	Extended maintenance plans	1 and 2-year extended warranty plans available.
2.nn	Service contract costs	Repair costs quoted on an as-needed basis after the unit is returned to BVS under an RMA number.
2.oo	Other information	Cell phones must be switched to the "on" mode and in use in order for them to be detected by the

		PocketHound. The PocketHound will not work on cell phones that are switched "off".
--	--	--

RFI Q.#	Survey Question (abbreviated)	Response
Product Information – Environmental-borne Contraband Detection		
4.a	Name and model number	PocketHound 0060-PH
4.b	Primary product purpose	Detect cell phones that are switched "on" and in use.
4.c	Physical dims (HxWxD, inches)	4.3" H x 2.8" W x 0.8" D
4.d	Operational dims (detection area)	Maximum 75 feet from front of the PocketHound.
4.e	Weight (lbs)	0.5 lbs
4.f	Portability (e.g., fixed, handheld)	Portable, hand-held and fixed modes
4.g	Operation conditions/limitations	Indoor use but may be used outdoors in non-extreme environments. Not for use in rain, snow, extreme heat or cold. Most applications are for room temperature and humidity.
4.h	Ability to detect metal objects	No
4.h.i	Types of metals detected	N/A
4.h.ii	Types of metals NOT detected	N/A
4.i	Ability to detect non-metal objects	N/A
4.i.i	Types of non-metals detected	N/A
4.j	Ability to detect other contraband	Cell phones
4.k	Modes of operation	1) Manual threshold setting, and 2) Auto threshold setting.
4.l	Number of detection areas	PocketHound will alert on the cell phone with the strongest signal present in a given area.
4.m	Type of detector used	PocketHound employs a radio frequency continuous wave detector and proprietary envelope algorithms.
4.n	Minimum object size detectable	N/A
4.o	Maximum object size detectable	N/A
4.p	Alert/alarm mechanism	Vibration alarm and flashing blue LED lights for cell phone signal strength on head-end of unit.
4.q	Average time to gen. alarm	Instantaneous when cell phones are placed into use in the detection area (maximum distance away is 75 feet).
4.r	Number of rec. operators	Only one, the user
4.s	Tampering safeguards	N/A
4.t	Sturdiness/fragility of material	Durable plastic case. One-piece design
4.u	Ease of storage	Can be placed in a drawer, pocket or glove box when not in use.
4.v	Data management	N/A
4.w	Onboard memory storage	N/A
4.x	Power requirements	Internal rechargeable battery. DC charging adapter for 120 VAC included.
4.y	Battery discharge time	Up to 2 hours.
4.z	Battery shelf life (months)	N/A
4.aa	Battery recharge time (hours)	Approximately 2-3 hours.
4.bb	Battery replacement procedure	Internal battery must be serviced/replaced at BVS' factory in NJ.
4.cc	Supplemental charger options	PocketHound ships with a DC charging adapter but additional adapters may be ordered as spares.
4.dd	Safety compliances	N/A. The unit generates no energy field or disturbances.
4.ee	Radiation safety standards	N/A
4.ff	Length of warranty (months)	12 months

4.gg	Auxiliary equipment	External booster battery available as an option.
4.hh	Manufacturer suggested retail price	\$499
4.ii	Extended maintenance plans	1 and 2-year extended warranty plans available.
4.jj	Service contract costs	Repair costs quoted on an as-needed basis after the unit is returned to BVS under an RMA number.
4.kk	Other information	Cell phones must be switched to the "on" mode and in use in order for them to be detected by the PocketHound. The PocketHound will not work on cell phones that are switched "off".

RFI Q.#	Survey Question (abbreviated)	Response
Usability/Training		
5.a	Usability validation processes	Requirements gathering, sensor technology reviews, battery technology design review, ergonomics, beta testing by target market prospect clients.
5.b	User community data	Surveys from prospect clients, hands-on evaluation of beta prototype unit. Info collected, reviewed and implemented prior to production phase.
5.c	User-group meetings and frequency	In-person demo usually at the beginning or during the concept phase. Custom designs are also offered to clients that are entertaining a large quantity order with BVS.
5.d	Typical problems reported	Battery life (same problems as cell phone batteries).
5.d.i	Resolution to problems	Replaced internal battery under warranty.
5.e	Hours of tech. support and location	BVS Customer Support is open from Monday-Friday from 8:30AM - 5:00 PM via telephone, e-mail or SKYPE
5.f	Calibration requirements	No calibration is required for the BVS cell phone detection models offered in this RFI.
5.g	Training provided (hours)	Formal Factory Authorized Training is available on any BVS product for a fee. Training may take place at the customer's site (preferred) or at BVS' Headquarters in Metuchen, NJ. In most cases, 4 hours to a full day on each model will suffice. This time includes hands-on use with the instrument.

RFI Q.#	Survey Question (abbreviated)	Response
Features and Functions		
6.a	Types of formalize reports	Ad-hoc graphical reports of cell phone detection statistics as well as SQL database queries are available.
6.b	Types of on-demand reports	Graphical format with "events" on the Y-axis and "time" on the X-axis.

RFI Q.#	Survey Question (abbreviated)	Response
Performance and Security		
7.a	Average installation time	Less than 5 minutes
7.b	False positive / false negative rates	A recent study performed by NLECTC/NIJ contains some very exhaustive testing of the three models offered in this RFI. The title of this document is "TEST AND EVALUATION OF HAND-HELD CELL PHONE DETECTION DEVICES GUIDEBOOK." Prepared for National Law Enforcement and Corrections Technology

		Center. By John S. Shaffer, Ph.D., Institutional Corrections Program Manager, Corrections Technology Center of Excellence, Joe Russo, Director, Corrections Technology Center of Excellence. June 2015
7.c	Mean time to failure	BVS has found that the Li-Ion battery technology is the primary cause of any failure with devices. Cell phones use the same type of battery technology. Company reports an average of every 2 years for replacing these internal battery systems.
7.d	Percent downtime	Barring a battery problem, percent availability is at or near 100%.
7.e	Data protection mechanisms	No data protection mechanisms are applicable.
7.f	Database record management	None

5.32 Berkeley Varitronics (BV) Systems WolfHound



Figure 32. BV Systems WolfHound

Person-Borne Vehicle-Borne Environmental

RFI Q.#	Survey Question (abbreviated)	Response
Vendor Information		
0	Responded to FRN?	Yes
1.a	Name	Berkeley Varitronics Systems, Inc.
1.b	Address/phone number	255 Liberty Street, Metuchen, NJ 08840
1.c	Website	www.bvsystems.com
1.d	Years in business	43 years
1.e	Number and types of customers	No information provided
1.f	Manufacturing location(s)	255 Liberty Street, Metuchen, NJ 08840

RFI Q.#	Survey Question (abbreviated)	Response
Product Information – Person-borne Contraband Detection		
2.a	Name and model number	Wolfhound-Pro 0060-P-USEU
2.b	Primary product purpose	Detect and locate cell phones that are switched "on" and in use.
2.c	Physical dims (HxWxD, inches)	With DF antenna and Laser bracket attached (typical configuration), 10.0" H x 5.5" W x 7.5" D.
2.d	Operational dims (detection area)	Maximum 150 feet from front of the Wolfhound-Pro's direction finding (DF) antenna.
2.e	Weight (lbs)	1.9 lbs
2.f	Portability (e.g., fixed, handheld)	Portable, hand-held and fixed modes
2.g	Intended environment (e.g., indoor)	Indoor use but may be used outdoors in non-extreme

		environments. Not for use in rain, snow, extreme heat or cold.
2.h	Operation conditions/limitations	Most applications are for room temperature and humidity.
2.i	Ability to detect metal objects	No
2.i.i	Types of metals detected	N/A
2.i.ii	Types of metals NOT detected	N/A
2.j	Ability to detect non-metal objects	No
2.j.i	Types of non-metals detected	None
2.k	Ability to detect in body cavities	Detection of operating cell phones from a maximum distance of 150 feet.
2.k.i	Types of body cavities penetrable	Rectum, vagina, mouth
2.l	Ability to detect other contraband	N/A
2.m	Modes of operation	Wolfhound-Pro has many adjustable modes for RF detection threshold, alarm type, direction-finding and frequency band scanning.
2.n	Number of detection areas	Wolfhound-Pro will alert on the cell phone with the strongest signal present in a given area and display its signal strength and operating frequency.
2.o	Type of detector used	Wolfhound-Pro employs a radio frequency continuous wave detector and proprietary envelope algorithms.
2.p	Minimum object size detectable	N/A
2.p.i	Size on a person	N/A
2.p.ii	Size in a body cavity	N/A
2.q	Total inspection time (sec/person)	N/A
2.r	Penetration depth (inches)	N/A
2.s	Alert/alarm mechanism	Graphical LCD display with bar graphs, vibration alarm, audible beep alarm and green flashing laser light on head-end of unit.
2.t	Average time to gen. alarm	Instantaneous when cell phones are placed into use in the detection area (maximum distance away is 150 feet).
2.u	Privacy safeguards/features	N/A
2.v	Number of rec. operators	Only one, the user
2.w	Tampering safeguards	N/A
2.x	Sturdiness/fragility of material	Durable plastic case. Rugged attaché-type Pelican carrying case.
2.y	Ease of storage	Attaché-type Pelican carrying case stores safely and securely (has key locks).
2.z	Data management	Optional software available for displaying and recording cell phone detection events. SQL database is also created by this optional software. Each copy is registered to a specific serial number unit of the Wolfhound-Pro.
2.aa	Onboard memory storage	N/A
2.bb	Power requirements	Internal rechargeable battery. DC charging adapter for 120 VAC included.
2.cc	Battery discharge time	On average, about 6 hours.
2.dd	Battery shelf life (months)	N/A
2.ee	Battery recharge time (hours)	Approximately 3-4 hours.
2.ff	Battery replacement procedure	Internal battery must be serviced/replaced at BVS' factory in NJ.
2.gg	Supplemental charger options	Wolfhound-Pro ships with a DC charging adapter but additional adapters may be ordered as spares.
2.hh	Safety compliances	N/A. The unit generates no energy field or disturbances.
2.ii	Radiation safety standards	N/A
2.jj	Length of warranty (months)	12 months

2.kk	Auxiliary equipment	Optional software available to display and log cell phone detection events.
2.ll	Manufacturer suggested retail price	\$2,400. The optional display and logging software is \$250 per unit and is registered to a specific Wolfhound-Pro by serial number.
2.mm	Extended maintenance plans	1 and 2-year extended warranty plans available.
2.nn	Service contract costs	Repair costs quoted on an as-needed basis after the unit is returned to BVS under an RMA number.
2.oo	Other information	Cell phones must be switched to the "on" mode and in use in order for them to be detected by the Wolfhound-Pro. The Wolfhound-Pro will not work on cell phones that are switched "off".

RFI Q.#	Survey Question (abbreviated)	Response
Product Information – Vehicle-borne Contraband Detection		
3.a	Name and model number	Wolfhound-Pro 0060-P-USEU
3.b	Primary product purpose	Detect and locate cell phones that are switched "on" and in use.
3.c	Physical dims (HxWxD, inches)	With DF antenna and Laser bracket attached (typical configuration), 10.0" H x 5.5" W x 7.5" D.
3.d	Operational dims (detection area)	Maximum 150 feet from front of the Wolfhound-Pro's direction finding (DF) antenna.
3.e	Weight (lbs)	1.88 lbs
3.f	Portability (e.g., fixed, handheld)	Portable, hand-held and fixed modes
3.g	Operation conditions/limitations	Most applications are for room temperature and humidity.
3.h	Ability to detect metal objects	No information provided
3.i	Ability to detect drugs/alcohol/chems	No information provided
3.j	Ability to detect people or animals	No information provided
3.k	Ability to detect other contraband	No information provided
3.l	Modes of operation	Wolfhound-Pro has adjustable modes for RF detection threshold, alarm type, direction-finding and frequency band scanning.
3.m	Number of detection areas	Wolfhound-Pro will alert on the cell phone with the strongest signal present in a given area and display its signal strength and operating frequency.
3.n	Type of detector used	Wolfhound-Pro employs a radio frequency continuous wave detector and proprietary envelope algorithms.
3.o	Minimum object size detectable	N/A
3.p	Total inspection time (sec/vehicle)	N/A
3.q	Alert/alarm mechanism	Graphical LCD display with bar graphs, vibration alarm, audible beep alarm and green flashing laser light on head-end of unit.
3.r	Average time to gen. alarm	Instantaneous when cell phones are placed into use in the detection area (maximum distance away is 150 feet).
3.s	Number of rec. operators	Only one, the user
3.t	Tampering safeguards	N/A
3.u	Sturdiness/fragility of material	Durable plastic case. Rugged attaché-type Pelican carrying case.
3.v	Ease of storage	Attaché-type Pelican carrying case stores safely and securely (has key locks).
3.w	Data management	Optional software available for displaying and recording cell phone detection events. SQL database is also

		created by this optional software. Each copy is registered to a specific serial number unit of the Wolfhound-Pro.
3.x	Onboard memory storage	N/A
3.y	Power requirements	Internal rechargeable battery. DC charging adapter for 120 VAC included.
3.z	Battery discharge time	On average, about 6 hours.
3.aa	Battery shelf life (months)	N/A
3.bb	Battery recharge time (hours)	Approximately 3-4 hours.
3.cc	Battery replacement procedure	Internal battery must be serviced/replaced at BVS' factory in NJ.
3.dd	Supplemental charger options	Wolfhound-Pro ships with a DC charging adapter but additional adapters may be ordered as spares.
3.ee	Safety compliances	N/A. The unit generates no energy field or disturbances.
3.ff	Radiation safety standards	N/A
3.gg	Length of warranty (months)	12 month warranty
3.hh	Auxiliary equipment	Optional software available to display and log cell phone detection events.
3.ii	Manufacturer suggested retail price	\$2,400. The optional display and logging software is \$250 per unit and is registered to a specific Wolfhound-Pro by serial number.
3.jj	Extended maintenance plans	1 and 2-year extended warranty plans available.
3.kk	Service contract costs	Repair costs quoted on an as-needed basis after the unit is returned to BVS under an RMA number.
3.ll	Other information	Cell phones must be switched to the "on" mode and in use in order for them to be detected by the Wolfhound-Pro. The Wolfhound-Pro will not work on cell phones that are switched "off".

RFI Q.#	Survey Question (abbreviated)	Response
Product Information – Environmental-borne Contraband Detection		
4.a	Name and model number	Wolfhound-Pro 0060-P-USEU
4.b	Primary product purpose	Detect and locate cell phones that are switched "on" and in use.
4.c	Physical dims (HxWxD, inches)	With DF antenna and Laser bracket attached (typical configuration), 10" H x 5.5" W x 7.5" D.
4.d	Operational dims (detection area)	Maximum 150 feet from front of the Wolfhound-Pro's direction finding (DF) antenna.
4.e	Weight (lbs)	1.88 lbs
4.f	Portability (e.g., fixed, handheld)	Portable, hand-held and fixed modes
4.g	Operation conditions/limitations	Indoor use but may be used outdoors in non-extreme environments. Not for use in rain, snow, extreme heat or cold. Most applications are for room temperature and humidity.
4.h	Ability to detect metal objects	No
4.h.i	Types of metals detected	N/A
4.h.ii	Types of metals NOT detected	N/A
4.i	Ability to detect non-metal objects	No
4.i.i	Types of non-metals detected	N/A
4.j	Ability to detect other contraband	Cell phones
4.k	Modes of operation	Wolfhound-Pro has adjustable modes for RF detection threshold, alarm type, direction-finding and frequency band scanning.
4.l	Number of detection areas	Wolfhound-Pro will alert on the cell phone with the

		strongest signal present in a given area and display its signal strength and operating frequency. Detection of operating cell phones from a maximum distance of 150 feet.
4.m	Type of detector used	Wolfhound-Pro employs a radio frequency continuous wave detector and proprietary envelope algorithms.
4.n	Minimum object size detectable	N/A
4.o	Maximum object size detectable	N/A
4.p	Alert/alarm mechanism	Graphical LCD display with bar graphs, vibration alarm, audible beep alarm and green flashing laser light on head-end of unit.
4.q	Average time to gen. alarm	Instantaneous when cell phones are placed into use in the detection area (maximum distance away is 150 feet).
4.r	Number of rec. operators	N/A
4.s	Tampering safeguards	Only one, the user
4.t	Sturdiness/fragility of material	N/A
4.u	Ease of storage	Durable plastic case. Rugged attaché-type Pelican carrying case.
4.v	Data management	Attaché-type Pelican carrying case stores safely and securely (has key locks).
4.w	Onboard memory storage	Optional software available for displaying and recording cell phone detection events. SQL database is also created by this optional software. Each copy is registered to a specific serial number unit of the Wolfhound-Pro.
4.x	Power requirements	N/A
4.y	Battery discharge time	Internal rechargeable battery. DC charging adapter for 120 VAC included.
4.z	Battery shelf life (months)	On average, about 6 hours.
4.aa	Battery recharge time (hours)	N/A
4.bb	Battery replacement procedure	Approximately 3-4 hours.
4.cc	Supplemental charger options	Internal battery must be serviced/replaced at BVS' factory in NJ.
4.dd	Safety compliances	Wolfhound-Pro ships with a DC charging adapter but additional adapters may be ordered as spares.
4.ee	Radiation safety standards	N/A. The unit generates no energy field or disturbances.
4.ff	Length of warranty (months)	N/A
4.gg	Auxiliary equipment	12 month warranty
4.hh	Manufacturer suggested retail price	Optional software available to display and log cell phone detection events.
4.ii	Extended maintenance plans	\$2,400. The optional display and logging software is \$250 per unit and is registered to a specific Wolfhound-Pro by serial number.
4.jj	Service contract costs	1 and 2-year extended warranty plans available.
4.kk	Other information	Repair costs quoted on an as-needed basis after the unit is returned to BVS under an RMA number.

RFI Q.#	Survey Question (abbreviated)	Response
Usability/Training		
5.a	Usability validation processes	Requirements gathering, sensor technology reviews, battery technology design review, ergonomics, beta testing by target market prospect clients.
5.b	User community data	Surveys from prospect clients, hands-on evaluation of beta prototype unit. Info collected, reviewed and

		implemented prior to production phase.
5.c	User-group meetings and frequency	In-person demo usually at the beginning or during the concept phase. Custom designs are also offered to clients that are entertaining a large quantity order with BVS.
5.d	Typical problems reported	Battery life (same problems as cell phone batteries).
5.d.i	Resolution to problems	Replaced internal battery under warranty.
5.e	Hours of tech. support and location	BVS Customer Support is open from Monday-Friday from 8:30AM - 5:00 PM via telephone, e-mail or SKYPE
5.f	Calibration requirements	No calibration is required for the BVS cell phone detection models offered in this RFI.
5.g	Training provided (hours)	Formal Factory Authorized Training is available on any BVS product for a fee. Training may take place at the customer's site (preferred) or at BVS' Headquarters in Metuchen, NJ. In most cases, 4 hours to a full day on each model will suffice. This time includes hands-on use with the instrument.

RFI Q.#	Survey Question (abbreviated)	Response
Features and Functions		
6.a	Types of formalize reports	Ad-hoc graphical reports of cell phone detection statistics as well as SQL database queries are available.
6.b	Types of on-demand reports	Graphical format with "events" on the Y-axis and "time" on the X-axis.

RFI Q.#	Survey Question (abbreviated)	Response
Performance and Security		
7.a	Average installation time	Less than 5 minutes
7.b	False positive / false negative rates	A recent study performed by NLECTC/NIJ contains some very exhaustive testing of the three models offered in this RFI. The title of this document is "TEST AND EVALUATION OF HAND-HELD CELL PHONE DETECTION DEVICES GUIDEBOOK." Prepared for National Law Enforcement and Corrections Technology Center. By John S. Shaffer, Ph.D., Institutional Corrections Program Manager, Corrections Technology Center of Excellence, Joe Russo, Director, Corrections Technology Center of Excellence. June 2015
7.c	Mean time to failure	BVS has found that the Li-Ion battery technology is the primary cause of any failure with devices. Cell phones use the same type of battery technology. Company reports an average of every 2 years for replacing these internal battery systems.
7.d	Percent downtime	Barring a battery problem, percent availability is at or near 100%.
7.e	Data protection mechanisms	No data protection mechanisms are applicable.
7.f	Database record management	None

5.33 CEIA EMIS Mail



Figure 33. CEIA EMIS Mail

Environmental

RFI Q.#	Survey Question (abbreviated)	Response
Vendor Information		
0	Responded to FRN?	Yes
1.a	Name	CEIA USA Ltd.
1.b	Address/phone number	9155 Dutton Drive, Twinsburg, OH 44087 (330) 405-3190
1.c	Website	www.ceia-usa.com
1.d	Years in business	45 years
1.e	Number and types of customers	Airports, ports, embassies, military installations, industry, penal institutions, government buildings, banks, stadiums, distribution centers, data processing centers, hospitals, etc.
1.f	Manufacturing location(s)	No information provided

RFI Q.#	Survey Question (abbreviated)	Response
Product Information – Environmental-borne Contraband Detection		
4.a	Name and model number	CEIA EMIS Mail
4.b	Primary product purpose	IED detector for letter and parcel inspection
4.c	Physical dims (HxWxD, inches)	10" H x 22" W x 8.3" D
4.d	Operational dims (detection area)	18" x 3"
4.e	Weight (lbs)	35 lbs

4.f	Portability (e.g., fixed, handheld)	Fixed
4.g	Operation conditions/limitations	Operating Temperature: -10°C to 50°C (14°F to 122°F) Storage Temperature: -25°C to 60°C (-13°F to 140°F) Humidity: 5-90% non-condensing
4.h	Ability to detect metal objects	Yes
4.h.i	Types of metals detected	Ferrous and nonferrous
4.h.ii	Types of metals NOT detected	No information provided
4.i	Ability to detect non-metal objects	No
4.i.i	Types of non-metals detected	Radioactive substances
4.j	Ability to detect other contraband	No information provided
4.k	Modes of operation	No information provided
4.l	Number of detection areas	No information provided
4.m	Type of detector used	The system uses IED detector technology.
4.n	Minimum object size detectable	No information provided
4.o	Maximum object size detectable	18" x 3"
4.p	Alert/alarm mechanism	Acoustic internal buzzer, high contrast OLED graphic display with bar-graph indication, LED indicators on control panel
4.q	Average time to gen. alarm	No information provided
4.r	Number of rec. operators	No information provided
4.s	Tampering safeguards	Programming access protected by multiple password levels
4.t	Sturdiness/fragility of material	IP40 protection rating
4.u	Ease of storage	No information provided
4.v	Data management	Local programming through keypad and remote programming via Bluetooth, data logger memory capacity of 10,000 events
4.w	Onboard memory storage	Permanent memory storage of operating parameters without back-up batteries; data logger memory capacity of 10,000 events
4.x	Power requirements	100-240 V single phase, 50-60 Hz, 1.07 A max, or 6 x 1.2V NiMH size D incorporated batteries
4.y	Battery discharge time	12 hours or 8 hours with IXC module
4.z	Battery shelf life (months)	No information provided
4.aa	Battery recharge time (hours)	6 hours
4.bb	Battery replacement procedure	No information provided
4.cc	Supplemental charger options	External AC/DC adapter, battery charger incorporated
4.dd	Safety compliances	Compliant with UL61010-1 Safety requirements for electrical equipment for measurement, control, and laboratory use – Part 1 General requirements
		ACGUH, 2012 Threshold Limit Value (TLV) for “Sub-radiofrequency (30 kHz and below) Magnetic Fields”
		IEEE C95.1-1999: IEEE Standard for Safety Levels with Respect to Human Exposure to Radio Frequency Electromagnetic Fields, 3kHz to 300 GHz
		RPB-SC18, 1976: Recommended safety procedures for the selection, installation, and use of active metal detectors, Health Canada
4.ee	Radiation safety standards	See answer above
4.ff	Length of warranty (months)	No information provided
4.gg	Auxiliary equipment	<ul style="list-style-type: none"> • High-resolution OLED graphic display • Keyboard • Incorporated Bluetooth (FCC ID: QOQWT12 – IC:5123A-BGTWT12A) interface, RS232

		<ul style="list-style-type: none"> • Data logger • Radiation detection module • Ethernet, USB, and Wi-Fi interface
4.hh	Manufacturer suggested retail price	No information provided
4.ii	Extended maintenance plans	No information provided
4.jj	Service contract costs	No information provided
4.kk	Other information	<ul style="list-style-type: none"> • High inspection speed • No alarm on metal staples, paper-clips, and metal binding spirals • Integrated auto-diagnosis system • Independent operation, with main power supply or incorporated batteries

RFI Q.#	Survey Question (abbreviated)	Response
Usability/Training		
5.a	Usability validation processes	No information provided
5.b	User community data	No information provided
5.c	User-group meetings and frequency	No information provided
5.d	Typical problems reported	No information provided
5.d.i	Resolution to problems	No information provided
5.e	Hours of tech. support and location	No information provided
5.f	Calibration requirements	No information provided
5.g	Training provided (hours)	No information provided

RFI Q.#	Survey Question (abbreviated)	Response
Features and Functions		
6.a	Types of formalize reports	No information provided
6.b	Types of on-demand reports	No information provided

RFI Q.#	Survey Question (abbreviated)	Response
Performance and Security		
7.a	Average installation time	No information provided
7.b	False positive / false negative rates	No information provided
7.c	Mean time to failure	No information provided
7.d	Percent downtime	No information provided
7.e	Data protection mechanisms	No information provided
7.f	Database record management	No information provided

5.34 CEIA EMIS 6047 Package Screening



Figure 34. CEIA EMIS 6047 Package Screening

Environmental

RFI Q.#	Survey Question (abbreviated)	Response
Vendor Information		
0	Responded to FRN?	Yes
1.a	Name	CEIA USA Ltd.
1.b	Address/phone number	9155 Dutton Drive, Twinsburg, OH 44087 (330) 405-3190
1.c	Website	www.ceia-usa.com
1.d	Years in business	45 years
1.e	Number and types of customers	Airports, ports, embassies, military installations, industry, penal institutions, government buildings, banks, stadiums, distribution centers, data processing centers, hospitals, etc.
1.f	Manufacturing location(s)	No information provided

RFI Q.#	Survey Question (abbreviated)	Response
Product Information – Environmental-borne Contraband Detection		
4.a	Name and model number	CEIA EMIS 6047
4.b	Primary product purpose	Fully automatic detection devices for non-metallic cargo packages.
4.c	Physical dims (HxWxD, inches)	64" H x 56" W x 118" D
4.d	Operational dims (detection area)	23.6" x 18.5"
4.e	Weight (lbs)	1,100 lbs

4.f	Portability (e.g., fixed, handheld)	Fixed
4.g	Operation conditions/limitations	Operating Temperature: -10°C to 50°C (14°F to 122°F) Storage Temperature: -25°C to 70°C (-13°F to 158°F) Humidity: 5-95% non-condensing
4.h	Ability to detect metal objects	Yes
4.h.i	Types of metals detected	Ferrous and nonferrous
4.h.ii	Types of metals NOT detected	No information provided
4.i	Ability to detect non-metal objects	No
4.i.i	Types of non-metals detected	N/A
4.j	Ability to detect other contraband	Only metallic objects
4.k	Modes of operation	No information provided
4.l	Number of detection areas	No information provided
4.m	Type of detector used	The system uses CEIA electromagnetic-profile technology
4.n	Minimum object size detectable	0.5 ppm by weight detection sensitivity
4.o	Maximum object size detectable	No information provided
4.p	Alert/alarm mechanism	Automatic slowing and stopping of the conveyor with visible and audible alarms
4.q	Average time to gen. alarm	N/A
4.r	Number of rec. operators	Automated system; does not need any dedicated operators
4.s	Tampering safeguards	Programming access protected by multiple password levels
4.t	Sturdiness/fragility of material	AISI 316L stainless steel, with IP65 protection rating
4.u	Ease of storage	No information provided
4.v	Data management	USB storage device connection, Bluetooth and Ethernet available for remote storage and management
4.w	Onboard memory storage	Storage of 125 programs, 100,000 storable events
4.x	Power requirements	200-240 V, 50-60 Hz, 11.4 A
4.y	Battery discharge time	N/A
4.z	Battery shelf life (months)	N/A
4.aa	Battery recharge time (hours)	N/A
4.bb	Battery replacement procedure	N/A
4.cc	Supplemental charger options	N/A
4.dd	Safety compliances	Conforms to the international standards currently applicable for electrical safety and EMC, and to the applicable EC regulations. Complies with regulations relating to pacemakers, defibrillators, or other vital support systems, pregnant women and magnetic storage media.
4.ee	Radiation safety standards	See answer above
4.ff	Length of warranty (months)	No information provided
4.gg	Auxiliary equipment	<ul style="list-style-type: none"> • Programming panel • Optical and Acoustic alarm • Adjustable conveyor belt • Motor control unit • High-contrast (3000:1) graphic display • Built in Bluetooth, USB interface Ethernet interface
4.hh	Manufacturer suggested retail price	No information provided
4.ii	Extended maintenance plans	No information provided
4.jj	Service contract costs	No information provided
4.kk	Other information	<ul style="list-style-type: none"> • 5 programmable relays (alarm, ready, ejector, preceding conveyor, and item clear relay) for the

		activation of external devices
		<ul style="list-style-type: none"> Scans up to 3,000 packages per hour

RFI Q.#	Survey Question (abbreviated)	Response
Usability/Training		
5.a	Usability validation processes	No information provided
5.b	User community data	No information provided
5.c	User-group meetings and frequency	No information provided
5.d	Typical problems reported	No information provided
5.d.i	Resolution to problems	No information provided
5.e	Hours of tech. support and location	No information provided
5.f	Calibration requirements	No calibration required
5.g	Training provided (hours)	No information provided

RFI Q.#	Survey Question (abbreviated)	Response
Features and Functions		
6.a	Types of formalize reports	No information provided
6.b	Types of on-demand reports	No information provided

RFI Q.#	Survey Question (abbreviated)	Response
Performance and Security		
7.a	Average installation time	No information provided
7.b	False positive / false negative rates	No information provided
7.c	Mean time to failure	No information provided
7.d	Percent downtime	No information provided
7.e	Data protection mechanisms	No information provided
7.f	Database record management	No information provided

5.35 CEIA EMIS 8075 Package Screening



Figure 35. CEIA EMIS 8075 Package Screening

Environmental

RFI Q.#	Survey Question (abbreviated)	Response
Vendor Information		
0	Responded to FRN?	Yes
1.a	Name	CEIA USA Ltd.
1.b	Address/phone number	9155 Dutton Drive, Twinsburg, OH 44087 (330) 405-3190
1.c	Website	www.ceia-usa.com
1.d	Years in business	45 years
1.e	Number and types of customers	Airports, ports, embassies, military installations, industry, penal institutions, government buildings, banks, stadiums, distribution centers, data processing centers, hospitals, etc.
1.f	Manufacturing location(s)	No information provided

RFI Q.#	Survey Question (abbreviated)	Response
Product Information – Environmental-borne Contraband Detection		
4.a	Name and model number	CEIA EMIS Series; EMIS 6047; EMIS 8075
4.b	Primary product purpose	Fully automatic detection devices for non-metallic cargo packages.
4.c	Physical dims (HxWxD, inches)	73" H x 57" W x 138" D
4.d	Operational dims (detection area)	31.5" x 29.5"
4.e	Weight (lbs)	1550 lbs

4.f	Portability (e.g., fixed, handheld)	Fixed
4.g	Operation conditions/limitations	Operating Temperature: -10°C to 50°C (14°F to 122°F) Storage Temperature: -25°C to 70°C (-13°F to 158°F) Humidity: 5-95% non-condensing
4.h	Ability to detect metal objects	Yes
4.h.i	Types of metals detected	Ferrous and nonferrous
4.h.ii	Types of metals NOT detected	No information provided
4.i	Ability to detect non-metal objects	No
4.i.i	Types of non-metals detected	N/A
4.j	Ability to detect other contraband	Only metallic objects
4.k	Modes of operation	No information provided
4.l	Number of detection areas	No information provided
4.m	Type of detector used	The system uses CEIA electromagnetic-profile technology
4.n	Minimum object size detectable	0.5 ppm by weight detection sensitivity
4.o	Maximum object size detectable	No information provided
4.p	Alert/alarm mechanism	Automatic slowing and stopping of the conveyor with visible and audible alarms
4.q	Average time to gen. alarm	N/A
4.r	Number of rec. operators	Automated system; does not need any dedicated operators
4.s	Tampering safeguards	Programming access protected by multiple password levels
4.t	Sturdiness/fragility of material	AISI 316L stainless steel, with IP65 protection rating
4.u	Ease of storage	No information provided
4.v	Data management	USB storage device connection, Bluetooth and Ethernet available for remote storage and management
4.w	Onboard memory storage	Storage of 125 programs, 100,000 storable events
4.x	Power requirements	200-240 V, 50-60 Hz, 11.4 A
4.y	Battery discharge time	N/A
4.z	Battery shelf life (months)	N/A
4.aa	Battery recharge time (hours)	N/A
4.bb	Battery replacement procedure	N/A
4.cc	Supplemental charger options	N/A
4.dd	Safety compliances	Conforms to the international standards currently applicable for electrical safety and EMC, and to the applicable EC regulations Complies with regulations relating to pacemakers, defibrillators, or other vital support systems, pregnant women and magnetic storage media
4.ee	Radiation safety standards	See answer above
4.ff	Length of warranty (months)	No information provided
4.gg	Auxiliary equipment	<ul style="list-style-type: none"> • Programming panel • Optical and Acoustic alarm • Adjustable conveyor belt • Motor control unit • High-contrast (3000:1) graphic display • Built in Bluetooth, USB interface Ethernet interface
4.hh	Manufacturer suggested retail price	No information provided
4.ii	Extended maintenance plans	No information provided
4.jj	Service contract costs	No information provided
4.kk	Other information	<ul style="list-style-type: none"> • 5 programmable relays (alarm, ready, ejector, preceding conveyor, and item clear relay) for the

		activation of external devices <ul style="list-style-type: none"> Scans up to 3,000 packages per hour
--	--	---

RFI Q.#	Survey Question (abbreviated)	Response
Usability/Training		
5.a	Usability validation processes	No information provided
5.b	User community data	No information provided
5.c	User-group meetings and frequency	No information provided
5.d	Typical problems reported	No information provided
5.d.i	Resolution to problems	No information provided
5.e	Hours of tech. support and location	No information provided
5.f	Calibration requirements	No calibration required
5.g	Training provided (hours)	No information provided

RFI Q.#	Survey Question (abbreviated)	Response
Features and Functions		
6.a	Types of formalize reports	No information provided
6.b	Types of on-demand reports	No information provided

RFI Q.#	Survey Question (abbreviated)	Response
Performance and Security		
7.a	Average installation time	No information provided
7.b	False positive / false negative rates	No information provided
7.c	Mean time to failure	No information provided
7.d	Percent downtime	No information provided
7.e	Data protection mechanisms	No information provided
7.f	Database record management	No information provided

5.36 CEIA EMIS 110160 Pallet Screening



Figure 36. CEIA EMIS 110160 Pallet Screening

Environmental

RFI Q.#	Survey Question (abbreviated)	Response
Vendor Information		
0	Responded to FRN?	Yes
1.a	Name	CEIA USA Ltd.
1.b	Address/phone number	9155 Dutton Drive, Twinsburg, OH 44087 (330) 405-3190
1.c	Website	www.ceia-usa.com
1.d	Years in business	45 years
1.e	Number and types of customers	Airports, ports, embassies, military installations, industry, penal institutions, government buildings, banks, stadiums, distribution centers, data processing centers, hospitals, etc.
1.f	Manufacturing location(s)	No information provided

RFI Q.#	Survey Question (abbreviated)	Response
Product Information – Environmental-borne Contraband Detection		
4.a	Name and model number	CEIA EMIS 110160
4.b	Primary product purpose	Fully automatic detection devices for non-metallic cargo packages. Analyze palletized cargo.
4.c	Physical dims (HxWxD, inches)	108.5" H x 71.0" W x 331.0" D
4.d	Operational dims (detection area)	63" x 43.3"

4.e	Weight (lbs)	8,818 lbs
4.f	Portability (e.g., fixed, handheld)	Fixed
4.g	Operation conditions/limitations	Operating Temperature: -10°C to 50°C (14°F to 122°F) Storage Temperature: -25°C to 70°C (-13°F to 158°F) Humidity: 5-95% non-condensing
4.h	Ability to detect metal objects	Yes
4.h.i	Types of metals detected	Ferrous and nonferrous
4.h.ii	Types of metals NOT detected	No information provided
4.i	Ability to detect non-metal objects	No
4.i.i	Types of non-metals detected	N/A
4.j	Ability to detect other contraband	Only metallic objects
4.k	Modes of operation	No information provided
4.l	Number of detection areas	No information provided
4.m	Type of detector used	The system uses CEIA electromagnetic-profile technology
4.n	Minimum object size detectable	0.5 ppm by weight detection sensitivity
4.o	Maximum object size detectable	No information provided
4.p	Alert/alarm mechanism	Automatic slowing and stopping of the conveyor with visible and audible alarms
4.q	Average time to gen. alarm	N/A
4.r	Number of rec. operators	Automated system; does not need any dedicated operators
4.s	Tampering safeguards	Programming access protected by multiple password levels
4.t	Sturdiness/fragility of material	AISI 316L stainless steel, with IP65 protection rating
4.u	Ease of storage	No information provided
4.v	Data management	USB storage device connection, Bluetooth and Ethernet available for remote storage and management
4.w	Onboard memory storage	Storage of 125 programs, 100,000 storable events
4.x	Power requirements	200-240 V, 50-60 Hz, 20 A
4.y	Battery discharge time	N/A
4.z	Battery shelf life (months)	N/A
4.aa	Battery recharge time (hours)	N/A
4.bb	Battery replacement procedure	N/A
4.cc	Supplemental charger options	N/A
4.dd	Safety compliances	Conforms to the international standards currently applicable for electrical safety and EMC, and to the applicable EC regulations Complies with regulations relating to pacemakers, defibrillators, or other vital support systems, pregnant women and magnetic storage media
4.ee	Radiation safety standards	See answer above
4.ff	Length of warranty (months)	No information provided
4.gg	Auxiliary equipment	<ul style="list-style-type: none"> • Programming panel • Optical and Acoustic alarm • Adjustable conveyor belt • Motor control unit • High-contrast (3000:1) graphic display • Built in Bluetooth, USB interface Ethernet interface
4.hh	Manufacturer suggested retail price	No information provided
4.ii	Extended maintenance plans	No information provided
4.jj	Service contract costs	No information provided
4.kk	Other information	<ul style="list-style-type: none"> • 5 programmable relays (alarm, ready, ejector,

		<p>preceding conveyor, and item clear relay) for the activation of external devices</p> <ul style="list-style-type: none"> Scans up to 60 pallets per hour with automatic loading/unloading pallet system
--	--	--

RFI Q.#	Survey Question (abbreviated)	Response
Usability/Training		
5.a	Usability validation processes	No information provided
5.b	User community data	No information provided
5.c	User-group meetings and frequency	No information provided
5.d	Typical problems reported	No information provided
5.d.i	Resolution to problems	No information provided
5.e	Hours of tech. support and location	No information provided
5.f	Calibration requirements	No calibration required
5.g	Training provided (hours)	No information provided

RFI Q.#	Survey Question (abbreviated)	Response
Features and Functions		
6.a	Types of formalize reports	No information provided
6.b	Types of on-demand reports	No information provided

RFI Q.#	Survey Question (abbreviated)	Response
Performance and Security		
7.a	Average installation time	No information provided
7.b	False positive / false negative rates	No information provided
7.c	Mean time to failure	No information provided
7.d	Percent downtime	No information provided
7.e	Data protection mechanisms	No information provided
7.f	Database record management	No information provided

5.37 CEIA EMIS 130160 Pallet Screening



Figure 37. CEIA EMIS 130160 Pallet Screening

Environmental

RFI Q.#	Survey Question (abbreviated)	Response
Vendor Information		
0	Responded to FRN?	Yes
1.a	Name	CEIA USA Ltd
1.b	Address/phone number	9155 Dutton Drive, Twinsburg, OH 44087 (330) 405-3190
1.c	Website	www.ceia-usa.com
1.d	Years in business	45 years
1.e	Number and types of customers	Airports, ports, embassies, military installations, industry, penal institutions, government buildings, banks, stadiums, distribution centers, data processing centers, hospitals, etc.
1.f	Manufacturing location(s)	No information provided

RFI Q.#	Survey Question (abbreviated)	Response
Product Information – Environmental-borne Contraband Detection		
4.a	Name and model number	CEIA EMIS 130160
4.b	Primary product purpose	Fully automatic detection devices for non-metallic cargo packages. Analyze palletized cargo.
4.c	Physical dims (HxWxD, inches)	112”H x 79” W x 331” D
4.d	Operational dims (detection area)	67” x 51”

4.e	Weight (lbs)	11,000 lbs
4.f	Portability (e.g., fixed, handheld)	Fixed
4.g	Operation conditions/limitations	Operating Temperature: -10°C to 50°C (14°F to 122°F) Storage Temperature: -25°C to 70°C (-13°F to 158°F) Humidity: 5-95% non-condensing
4.h	Ability to detect metal objects	Yes
4.h.i	Types of metals detected	Ferrous and nonferrous
4.h.ii	Types of metals NOT detected	No information provided
4.i	Ability to detect non-metal objects	No
4.i.i	Types of non-metals detected	N/A
4.j	Ability to detect other contraband	Only metallic objects
4.k	Modes of operation	No information provided
4.l	Number of detection areas	No information provided
4.m	Type of detector used	The system uses CEIA electromagnetic-profile technology
4.n	Minimum object size detectable	0.5 ppm by weight detection sensitivity
4.o	Maximum object size detectable	No information provided
4.p	Alert/alarm mechanism	Automatic slowing and stopping of the conveyor with visible and audible alarms
4.q	Average time to gen. alarm	N/A
4.r	Number of rec. operators	Automated system; does not need any dedicated operators
4.s	Tampering safeguards	Programming access protected by multiple password levels
4.t	Sturdiness/fragility of material	AISI 316L stainless steel, with IP65 protection rating
4.u	Ease of storage	No information provided
4.v	Data management	USB storage device connection, Bluetooth and Ethernet available for remote storage and management
4.w	Onboard memory storage	Storage of 125 programs, 100,000 storable events
4.x	Power requirements	200-240 V, 50-60 Hz, 20 A
4.y	Battery discharge time	N/A
4.z	Battery shelf life (months)	N/A
4.aa	Battery recharge time (hours)	N/A
4.bb	Battery replacement procedure	N/A
4.cc	Supplemental charger options	N/A
4.dd	Safety compliances	Conforms to the international standards currently applicable for electrical safety and EMC, and to the applicable EC regulations Complies with regulations relating to pacemakers, defibrillators, or other vital support systems, pregnant women and magnetic storage media
4.ee	Radiation safety standards	See answer above
4.ff	Length of warranty (months)	No information provided
4.gg	Auxiliary equipment	<ul style="list-style-type: none"> • Programming panel • Optical and Acoustic alarm • Adjustable conveyor belt • Motor control unit • High-contrast (3000:1) graphic display • Built in Bluetooth, USB interface Ethernet interface
4.hh	Manufacturer suggested retail price	No information provided
4.ii	Extended maintenance plans	No information provided
4.jj	Service contract costs	No information provided
4.kk	Other information	<ul style="list-style-type: none"> • 5 programmable relays (alarm, ready, ejector,

		<p>preceding conveyor, and item clear relay) for the activation of external devices</p> <ul style="list-style-type: none"> Scans up to 60 pallets per hour with automatic loading/unloading pallet system
--	--	--

RFI Q.#	Survey Question (abbreviated)	Response
Usability/Training		
5.a	Usability validation processes	No information provided
5.b	User community data	No information provided
5.c	User-group meetings and frequency	No information provided
5.d	Typical problems reported	No information provided
5.d.i	Resolution to problems	No information provided
5.e	Hours of tech. support and location	No information provided
5.f	Calibration requirements	No calibration required
5.g	Training provided (hours)	No information provided

RFI Q.#	Survey Question (abbreviated)	Response
Features and Functions		
6.a	Types of formalize reports	No information provided
6.b	Types of on-demand reports	No information provided

RFI Q.#	Survey Question (abbreviated)	Response
Performance and Security		
7.a	Average installation time	No information provided
7.b	False positive / false negative rates	No information provided
7.c	Mean time to failure	No information provided
7.d	Percent downtime	No information provided
7.e	Data protection mechanisms	No information provided
7.f	Database record management	No information provided

5.38 CEIA Magneto Static Detector



Figure 38. CEIA Magneto Static Detector

Person-Borne

RFI Q.#	Survey Question (abbreviated)	Response
Vendor Information		
0	Responded to FRN?	Yes
1.a	Name	CEIA USA Ltd.
1.b	Address/phone number	9155 Dutton Drive, Twinsburg, Ohio 44087 (330) 405 3190
1.c	Website	www.ceia-usa.com
1.d	Years in business	No information provided
1.e	Number and types of customers	No information provided
1.f	Manufacturing location(s)	No information provided

RFI Q.#	Survey Question (abbreviated)	Response
Product Information – Person-borne Contraband Detection		
2.a	Name and model number	CEIA Magneto Static Detector (MSD)
2.b	Primary product purpose	The CEIA MSD is a one-piece, portable and full-height ferromagnetic detector that combines high reliability and ergonomics with advanced detection and operator signaling features. The MSD is used to detect all transmission devices containing magnetized parts including cell phones, radio transceiver, smart phones, etc. concealed on the person or in body cavities.

2.c	Physical dims (HxWxD, inches)	75" H x 13" W x 13" D
2.d	Operational dims (detection area)	Information not provided
2.e	Weight (lbs)	21 lbs
2.f	Portability (e.g., fixed, handheld)	Portable
2.g	Intended environment (e.g., indoor)	Indoor, Outdoor (optional) Use
2.h	Operation conditions/limitations	Operating Temperature: 14°F to 149°F Humidity: 0-95% (non-condensing)
2.i	Ability to detect metal objects	Yes
2.i.i	Types of metals detected	Ferromagnetic masses present on people/things in transit, and moving magnetic fields sources.
2.i.ii	Types of metals NOT detected	Non-ferromagnetic metals
2.j	Ability to detect non-metal objects	N/A
2.j.i	Types of non-metals detected	N/A
2.k	Ability to detect in body cavities	Yes
2.k.i	Types of body cavities penetrable	All (depending on depth and size of object)
2.l	Ability to detect other contraband	N/A
2.m	Modes of operation	No information provided
2.n	Number of detection areas	No information provided
2.o	Type of detector used	The system uses passive magnetic detection technology.
2.p	Minimum object size detectable	It depends on material composition, shape and distance from the detector
2.p.i	Size on a person	It depends on material composition, shape and distance from the detector
2.p.ii	Size in a body cavity	It depends on material composition, shape and distance from the detector
2.q	Total inspection time (sec/person)	Up to 40 persons/minute, or 1.5 seconds/person – Min. Reset Time: 0.2 sec
2.r	Penetration depth (inches)	N/A
2.s	Alert/alarm mechanism	Audible, Visual, and Visual with Five Zone Position Indication. Covert Alarm indication proportional to the size of object detected via Bluetooth Headset and deactivation of local alarm.
2.t	Average time to gen. alarm	Immediate – No Delay
2.u	Privacy safeguards/features	N/A
2.v	Number of rec. operators	One operator
2.w	Tampering safeguards	The unit has different levels of access to its programming functions all protected by unique passwords. All accessible hardware is protected by security screws
2.x	Sturdiness/fragility of material	Extremely durable design using stainless steel and high impact reinforced plastics.
2.y	Ease of storage	Heavy-duty and light-weight carrying case available for transport and personal storage.
2.z	Data management	Locally tracks alarm count
2.aa	Onboard memory storage	N/A
2.bb	Power requirements	Electric: 100 ... 240 V~ , 47...63Hz, 40W Battery Operation: Embedded rechargeable battery
2.cc	Battery discharge time	26 hours of continuous operation
2.dd	Battery shelf life (months)	N/A
2.ee	Battery recharge time (hours)	17 hours of continuous operation with 3 hour battery charge, 26 hours of continuous operation with 4.5 hour battery charge
2.ff	Battery replacement procedure	Factory replacement
2.gg	Supplemental charger options	N/A
2.hh	Safety compliances	1) Compliant with the applicable electromagnetic

		Standards on Human Exposure and pacemaker safety, 2) Compliant with and certified to the applicable International Standards for electrical safety and EMC. Further certification information and compliance documentation available on request. Meets detection requirements for each level of the NIJ 0602.02 Standard and exceeds NIJ 0602.02 Very Small Object level.
2.ii	Radiation safety standards	N/A
2.jj	Length of warranty (months)	24 months
2.kk	Auxiliary equipment	Wall Mounting Kit, MSD Remote Relay Unit (RRU), Additional Bluetooth Headsets, test piece included
2.ll	Manufacturer suggested retail price	Available upon request (this detector is on GSA)
2.mm	Extended maintenance plans	Yes
2.nn	Service contract costs	Available – pricing TBD
2.oo	Other information	Main features include very high sensitivity, auto learn system for automatic adaptation to surrounding moving magnetic metal structures and electrical interferences, five separate zone indications, and wireless Bluetooth earpiece. The test piece is included.

RFI Q.#	Survey Question (abbreviated)	Response
Usability/Training		
5.a	Usability validation processes	No information provided
5.b	User community data	No information provided
5.c	User-group meetings and frequency	No information provided
5.d	Typical problems reported	No information provided
5.d.i	Resolution to problems	No information provided
5.e	Hours of tech. support and location	No information provided
5.f	Calibration requirements	No information provided
5.g	Training provided (hours)	No information provided

RFI Q.#	Survey Question (abbreviated)	Response
Features and Functions		
6.a	Types of formalize reports	No information provided
6.b	Types of on-demand reports	No information provided

RFI Q.#	Survey Question (abbreviated)	Response
Performance and Security		
7.a	Average installation time	No information provided
7.b	False positive / false negative rates	No information provided
7.c	Mean time to failure	No information provided
7.d	Percent downtime	No information provided
7.e	Data protection mechanisms	No information provided
7.f	Database record management	No information provided

5.39 CEIA PD140



Figure 39. CEIA PD140

Person-Borne

RFI Q.#	Survey Question (abbreviated)	Response
Vendor Information		
0	Responded to FRN?	Yes
1.a	Name	CEIA USA Ltd.
1.b	Address/phone number	9155 Dutton Drive, Twinsburg, OH 44087 (330) 405-3190
1.c	Website	www.ceia-usa.com
1.d	Years in business	45 years
1.e	Number and types of customers	Airports, ports, embassies, military installations, industry, penal institutions, government buildings, banks, stadiums, distribution centers, data processing centers, hospitals, etc.
1.f	Manufacturing location(s)	No information provided

RFI Q.#	Survey Question (abbreviated)	Response
Product Information – Person-borne Contraband Detection		
2.a	Name and model number	PD140 N
2.b	Primary product purpose	New generation compact handheld metal detection set
2.c	Physical dims (HxWxD, inches)	14.2" D x 3.2" W x 1.6" H

		HHDS Docking Station: 6.9" x 4.5" x 3.4" Carry Bag: 17" x 13.4" x 4.1"
2.d	Operational dims (detection area)	No information provided
2.e	Weight (lbs)	0.85 lbs with battery
2.f	Portability (e.g., fixed, handheld)	handheld
2.g	Intended environment (e.g., indoor)	Indoor and Outdoor
2.h	Operation conditions/limitations	Operating Temperature: -35°C to 158°C (-31 to 316 °F) Storage Temperature: -35°C to 176°C (-31 to 349 °F) Humidity: 0-98% (non-condensing)
2.i	Ability to detect metal objects	Yes
2.i.i	Types of metals detected	Ferrous and nonferrous metals
2.i.ii	Types of metals NOT detected	No information provided
2.j	Ability to detect non-metal objects	No
2.j.i	Types of non-metals detected	N/A
2.k	Ability to detect in body cavities	No information provided
2.k.i	Types of body cavities penetrable	No information provided
2.l	Ability to detect other contraband	No information provided
2.m	Modes of operation	Programmable sensitivity, automatic low power mode during screening pauses
2.n	Number of detection areas	No information provided
2.o	Type of detector used	Electronic functions include a magnetic field transmitter-receiver based on Digital Signal Processing (DSP), a digital operator interface, and an external communication over the USB port.
2.p	Minimum object size detectable	No information provided
2.p.i	Size on a person	No information provided
2.p.ii	Size in a body cavity	No information provided
2.q	Total inspection time (sec/person)	No information provided
2.r	Penetration depth (inches)	No information provided
2.s	Alert/alarm mechanism	Acoustic, vibration, and visual alarms. Ability to connect to a PC via USB for a personalized graphic interface
2.t	Average time to gen. alarm	No information provided
2.u	Privacy safeguards/features	No information provided
2.v	Number of rec. operators	One
2.w	Tampering safeguards	Can lock the sensitivity and other settings on the system.
2.x	Sturdiness/fragility of material	Grey shock resistant technical polymers, silicone control panel
2.y	Ease of storage	The system comes with carry bag for storage. Embedded fast and reliable battery charger as part of the dedicated holder acts as minimum space table stand and mains connection for battery charge
2.z	Data management	No information provided
2.aa	Onboard memory storage	No information provided
2.bb	Power requirements	2 AA NiMH rechargeable batteries
2.cc	Battery discharge time	100 - 200 hours
2.dd	Battery shelf life (months)	No information provided
2.ee	Battery recharge time (hours)	5 hours
2.ff	Battery replacement procedure	Remove screw cap and replace batteries
2.gg	Supplemental charger options	Docking station with built-in charger
2.hh	Safety compliances	NIJ Standard 0602.02 compliant NIJ 060203 compliant Conforms to the international standard currently applicable for safety, EMC, and to the applicable CE regulations

2.ii	Radiation safety standards	No information provided
2.jj	Length of warranty (months)	No information provided
2.kk	Auxiliary equipment	<ul style="list-style-type: none"> • HHDS docking station • Coupling pins for HHDS side-by-side placement • Calibration NIJ compliant test piece • Universal AC adapter • US, EU, UK, JP plugs adapter • Wrist strap • Instruction manual • Quick reference guide • Carry bag
2.ll	Manufacturer suggested retail price	No information provided
2.mm	Extended maintenance plans	No information provided
2.nn	Service contract costs	No information provided
2.oo	Other information	<ul style="list-style-type: none"> • 3 level sensitivity selection buttons • Customizable via HHMD configuration tool

RFI Q.#	Survey Question (abbreviated)	Response
Usability/Training		
5.a	Usability validation processes	No information provided
5.b	User community data	No information provided
5.c	User-group meetings and frequency	No information provided
5.d	Typical problems reported	No information provided
5.d.i	Resolution to problems	No information provided
5.e	Hours of tech. support and location	No information provided
5.f	Calibration requirements	No information provided
5.g	Training provided (hours)	No information provided

RFI Q.#	Survey Question (abbreviated)	Response
Features and Functions		
6.a	Types of formalize reports	No information provided
6.b	Types of on-demand reports	No information provided

RFI Q.#	Survey Question (abbreviated)	Response
Performance and Security		
7.a	Average installation time	No information provided
7.b	False positive / false negative rates	No information provided
7.c	Mean time to failure	No information provided
7.d	Percent downtime	No information provided
7.e	Data protection mechanisms	No information provided
7.f	Database record management	No information provided

5.40 CEIA PD240



Figure 40. CEIA PD240

Person-Borne

RFI Q.#	Survey Question (abbreviated)	Response
Vendor Information		
0	Responded to FRN?	Yes
1.a	Name	CEIA USA Ltd.
1.b	Address/phone number	9155 Dutton Drive, Twinsburg, OH 44087 (330) 405-3190
1.c	Website	www.ceia-usa.com
1.d	Years in business	45 years
1.e	Number and types of customers	Airports, ports, embassies, military installations, industry, penal institutions, government buildings, banks, stadiums, distribution centers, data processing centers, hospitals, etc.
1.f	Manufacturing location(s)	No information provided

RFI Q.#	Survey Question (abbreviated)	Response
Product Information – Person-borne Contraband Detection		
2.a	Name and model number	PD240
2.b	Primary product purpose	New generation wide search area handheld metal detection set

2.c	Physical dims (HxWxD, inches)	17" H x 3.2" W x 1.6" D HHDS Docking Station: 6.9" x 4.5" x 3.4" Carry Bag: 17" x 13.4" x 4.1"
2.d	Operational dims (detection area)	No information provided
2.e	Weight (lbs)	1.04 lbs with battery
2.f	Portability (e.g., fixed, handheld)	handheld
2.g	Intended environment (e.g., indoor)	Indoor and Outdoor
2.h	Operation conditions/limitations	Operating Temperature: -35°C to 158°C (-31 to 316 °F) Storage Temperature: -35°C to 176°C (-31 to 349 °F) Humidity: 0-98% (non-condensing)
2.i	Ability to detect metal objects	Yes
2.i.i	Types of metals detected	Ferrous and nonferrous metals
2.i.ii	Types of metals NOT detected	No information provided
2.j	Ability to detect non-metal objects	No
2.j.i	Types of non-metals detected	N/A
2.k	Ability to detect in body cavities	No information provided
2.k.i	Types of body cavities penetrable	No information provided
2.l	Ability to detect other contraband	No information provided
2.m	Modes of operation	Programmable sensitivity, automatic low power mode during screening pauses
2.n	Number of detection areas	No information provided
2.o	Type of detector used	Electronic functions include a magnetic field transmitter-receiver based on Digital Signal Processing (DSP), a digital operator interface, and an external communication over the USB port.
2.p	Minimum object size detectable	No information provided
2.p.i	Size on a person	No information provided
2.p.ii	Size in a body cavity	No information provided
2.q	Total inspection time (sec/person)	No information provided
2.r	Penetration depth (inches)	No information provided
2.s	Alert/alarm mechanism	Acoustic, vibration, and visual alarms. Ability to connect to a PC via USB for a personalized graphic interface
2.t	Average time to gen. alarm	No information provided
2.u	Privacy safeguards/features	No information provided
2.v	Number of rec. operators	One
2.w	Tampering safeguards	Can lock the sensitivity and other settings on the system.
2.x	Sturdiness/fragility of material	Grey shock resistant technical polymers, silicone control panel
2.y	Ease of storage	The system comes with carry bag for storage. Embedded fast and reliable battery charger as part of the dedicated holder acts as minimum space table stand and mains connection for battery charge
2.z	Data management	No information provided
2.aa	Onboard memory storage	No information provided
2.bb	Power requirements	2 AA NiMH rechargeable batteries
2.cc	Battery discharge time	100 - 200 hours
2.dd	Battery shelf life (months)	No information provided
2.ee	Battery recharge time (hours)	5 hours
2.ff	Battery replacement procedure	Remove screw cap and replace batteries
2.gg	Supplemental charger options	Docking station with built-in charger
2.hh	Safety compliances	NIJ Standard 0602.02 compliant NIJ 060203 compliant Conforms to the international standard currently applicable for safety, EMC, and to the applicable CE

		regulations
2.ii	Radiation safety standards	No information provided
2.jj	Length of warranty (months)	No information provided
2.kk	Auxiliary equipment	<ul style="list-style-type: none"> • HHDS docking station • Coupling pins for HHDS side-by-side placement • Calibration NIJ compliant test piece • Universal AC adapter • US, EU, UK, JP plugs adapter • Wrist strap • Instruction manual • Quick reference guide • Carry bag
2.ll	Manufacturer suggested retail price	No information provided
2.mm	Extended maintenance plans	No information provided
2.nn	Service contract costs	No information provided
2.oo	Other information	<ul style="list-style-type: none"> • 3 level sensitivity selection buttons • Customizable via HHMD configuration tool • High immunity to external metal masses

RFI Q.#	Survey Question (abbreviated)	Response
Usability/Training		
5.a	Usability validation processes	No information provided
5.b	User community data	No information provided
5.c	User-group meetings and frequency	No information provided
5.d	Typical problems reported	No information provided
5.d.i	Resolution to problems	No information provided
5.e	Hours of tech. support and location	No information provided
5.f	Calibration requirements	No information provided
5.g	Training provided (hours)	No information provided

RFI Q.#	Survey Question (abbreviated)	Response
Features and Functions		
6.a	Types of formalize reports	No information provided
6.b	Types of on-demand reports	No information provided

RFI Q.#	Survey Question (abbreviated)	Response
Performance and Security		
7.a	Average installation time	No information provided
7.b	False positive / false negative rates	No information provided
7.c	Mean time to failure	No information provided
7.d	Percent downtime	No information provided
7.e	Data protection mechanisms	No information provided
7.f	Database record management	No information provided

5.41 CEIA SMD600 Plus

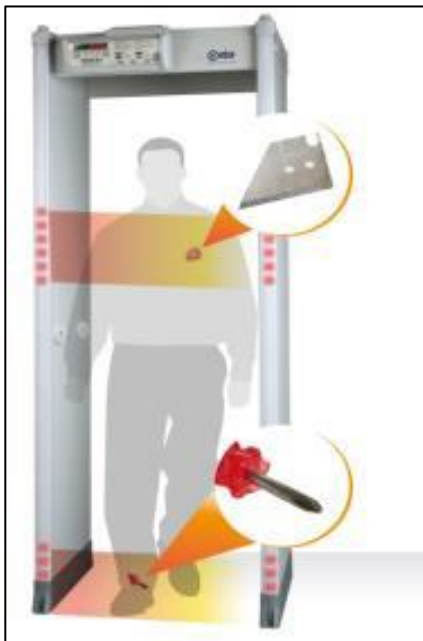


Figure 41. CEIA SMD600 Plus

Person-Borne

RFI Q.#	Survey Question (abbreviated)	Response
Vendor Information		
0	Responded to FRN?	Yes
1.a	Name	CEIA USA Ltd.
1.b	Address/phone number	9155 Dutton Drive, Twinsburg, Ohio 44087 (330) 405 3190
1.c	Website	www.ceia-usa.com
1.d	Years in business	No information provided
1.e	Number and types of customers	No information provided
1.f	Manufacturing location(s)	No information provided

RFI Q.#	Survey Question (abbreviated)	Response
Product Information – Person-borne Contraband Detection		
2.a	Name and model number	CEIA SMD600 Plus
2.b	Primary product purpose	The CEIA SMD600 Plus is a multi-zone walk-through metal detector specifically designed for very high sensitivity checkpoints such as those within correctional institutions. Despite the sensitivity, the unit can be installed in extremely noisy environments that are virtually impossible for other standard metal detectors. The SMD600 Plus pinpoints individual and multiple metal

		targets, with analysis of all parts of the body of the people in transit, from the shoe level to the crossbar.
2.c	Physical dims (HxWxD, inches)	88.8" H x 32.9" W x 28.0" D
2.d	Operational dims (detection area)	No information provided
2.e	Weight (lbs)	125 lbs
2.f	Portability (e.g., fixed, handheld)	Fixed
2.g	Intended environment (e.g., indoor)	Indoor, Outdoor (optional) Use
2.h	Operation conditions/limitations	Operating Temperature: -4°F to 158°F Humidity: 0-95% (non-condensing)
2.i	Ability to detect metal objects	Yes
2.i.i	Types of metals detected	Ferrous and non-ferrous metal and those constructed in special non-magnetic alloys including non-magnetic stainless steel, titanium, brass, etc.
2.i.ii	Types of metals NOT detected	N/A
2.j	Ability to detect non-metal objects	N/A
2.j.i	Types of non-metals detected	N/A
2.k	Ability to detect in body cavities	Yes
2.k.i	Types of body cavities penetrable	All (depending on depth and size of object)
2.l	Ability to detect other contraband	N/A
2.m	Modes of operation	No information provided
2.n	Number of detection areas	No information provided
2.o	Type of detector used	The system uses continuous wave technology.
2.p	Minimum object size detectable	Fully compliant with NIJ.0601.02 Small Object Class
2.p.i	Size on a person	Fully compliant with NIJ.0601.02 Small Object Class
2.p.ii	Size in a body cavity	Fully compliant with NIJ.0601.02 Small Object Class
2.q	Total inspection time (sec/person)	Up to 40 persons/minute, or 1.5 seconds/person – Min. Reset Time: 0.2 sec
2.r	Penetration depth (inches)	N/A
2.s	Alert/alarm mechanism	Audible, Visual, Random Alarm, Visual with 60 individual zone indication for Pinpoint Position Indication
2.t	Average time to gen. alarm	Immediate – No Delay
2.u	Privacy safeguards/features	N/A
2.v	Number of rec. operators	One operator
2.w	Tampering safeguards	The unit comes with anti-tampering kit which includes security screws, covers, hardened power supply, and stainless steel control unit with locking cover. The unit has different levels of access to its programming functions all protected by unique passwords
2.x	Sturdiness/fragility of material	State of the art robust and washable panels. Protected against aging, weather and wear; IP65 Protection with optional Weather Resistant and Anti-vandalism kits.
2.y	Ease of storage	N/A
2.z	Data management	Locally records screenings and alarm % information. Networking option allows greater detail regarding flow information including throughput related to time. Also retains information regarding device logs.
2.aa	Onboard memory storage	1 year of transit flow information and device logs with the network card
2.bb	Power requirements	Electric: 100...240V~ -10/+15%, 47...63Hz, 40 VA max Optional Battery (CEIA MBSU)
2.cc	Battery discharge time	MBSU-2 Battery: Up to 9 hours typical (6 hours minimum) continuous operation
2.dd	Battery shelf life (months)	N/A
2.ee	Battery recharge time (hours)	MBSU-2 Battery: 5 hours typical charging time.

2.ff	Battery replacement procedure	Replace in field
2.gg	Supplemental charger options	N/A
2.hh	Safety compliances	1) Complies with and exceeds the applicable Standards for Law Enforcement and Correctional Facilities, 2) Fully compliant with the NIJ-0601.02 Standard requirements, 3) Compliant with the applicable electromagnetic Standards on Human Exposure and Pacemaker Safety, 4) Compliant with applicable International Standards for electrical safety and EMC, and 5) Harmless to magnetic media (floppy disks, tapes, etc.).Further certification information and compliance documentation available on request.
2.ii	Radiation safety standards	N/A
2.jj	Length of warranty (months)	24 months
2.kk	Auxiliary equipment	Metal Divesting Table, Advanced Remote Control Unit (RCU), Mains & Battery Supply Unit (MBSU), Transport & Stability wheel kit, Chip Cards, Test Sample Kits (various), Waterproof Mains Power Supply, Infrared Remote Controller, Remote Relay Unit (RRU)
2.ll	Manufacturer suggested retail price	Available upon request (this detector is on GSA)
2.mm	Extended maintenance plans	Yes
2.nn	Service contract costs	Available – pricing TBD
2.oo	Other information	Optional test kits available depending upon security requirements. Optional weather resistant protection is available.

RFI Q.#	Survey Question (abbreviated)	Response
Usability/Training		
5.a	Usability validation processes	No information provided
5.b	User community data	No information provided
5.c	User-group meetings and frequency	No information provided
5.d	Typical problems reported	No information provided
5.d.i	Resolution to problems	No information provided
5.e	Hours of tech. support and location	No information provided
5.f	Calibration requirements	No information provided
5.g	Training provided (hours)	No information provided

RFI Q.#	Survey Question (abbreviated)	Response
Features and Functions		
6.a	Types of formalize reports	No information provided
6.b	Types of on-demand reports	No information provided

RFI Q.#	Survey Question (abbreviated)	Response
Performance and Security		
7.a	Average installation time	No information provided
7.b	False positive / false negative rates	No information provided
7.c	Mean time to failure	No information provided
7.d	Percent downtime	No information provided
7.e	Data protection mechanisms	No information provided
7.f	Database record management	No information provided

5.42 CEIA SMD601 Plus (with or w/o Correctional Profiling System)



Figure 42. CEIA SMD601 Plus (with or w/o Correctional Profiling System)

Person-Borne

RFI Q.#	Survey Question (abbreviated)	Response
Vendor Information		
0	Responded to FRN?	Yes
1.a	Name	CEIA USA Ltd.
1.b	Address/phone number	9155 Dutton Drive, Twinsburg, Ohio 44087 (330) 405 3190
1.c	Website	www.ceia-usa.com
1.d	Years in business	No information provided
1.e	Number and types of customers	No information provided
1.f	Manufacturing location(s)	No information provided

RFI Q.#	Survey Question (abbreviated)	Response
Product Information – Person-borne Contraband Detection		
2.a	Name and model number	CEIA SMD601 Plus and SMD601 Plus with Correctional Profiling System
2.b	Primary product purpose	The CEIA SMD601 Plus is a multi-zone walk-through metal detector specifically designed to high requirements of sensitivity, discrimination and immunity for Law Enforcement and Correctional Facilities. This device detects metal objects that could be considered a threat to officer and prisoner safety such as a single gun bullet, a single detonator, special stainless steel parts and

		electronic parts with minimum metal content. The optional Correctional Profiling System enables the profiling of persons who frequently transit the walkthrough detectors.
2.c	Physical dims (HxWxD, inches)	88.8" H x 32.9" W x 28.0" D
2.d	Operational dims (detection area)	No information provided
2.e	Weight (lbs)	163 lbs
2.f	Portability (e.g., fixed, handheld)	Fixed
2.g	Intended environment (e.g., indoor)	Indoor, Outdoor (optional) Use
2.h	Operation conditions/limitations	Operating Temperature: -4°F to 158°F (-34.60°F to 158°F upon request) Humidity: 0-95% (non-condensing)
2.i	Ability to detect metal objects	Yes
2.i.i	Types of metals detected	Ferrous and non-ferrous metal and those constructed in special non-magnetic alloys including non-magnetic stainless steel, titanium, brass, etc.
2.i.ii	Types of metals NOT detected	N/A
2.j	Ability to detect non-metal objects	N/A
2.j.i	Types of non-metals detected	N/A
2.k	Ability to detect in body cavities	Yes
2.k.i	Types of body cavities penetrable	All (depending on depth and size of object)
2.l	Ability to detect other contraband	N/A
2.m	Modes of operation	No information provided
2.n	Number of detection areas	No information provided
2.o	Type of detector used	The system uses continuous wave technology.
2.p	Minimum object size detectable	Goes beyond NIJ.0601.02 Small Object Class (smaller masses than referenced in the standard)
2.p.i	Size on a person	Goes beyond NIJ.0601.02 Small Object Class (smaller masses than referenced in the standard)
2.p.ii	Size in a body cavity	Goes beyond NIJ.0601.02 Small Object Class (smaller masses than referenced in the standard)
2.q	Total inspection time (sec/person)	Up to 40 persons/minute, or 1.5 seconds/person – Min. Reset Time: 0.2 sec
2.r	Penetration depth (inches)	N/A
2.s	Alert/alarm mechanism	Audible, Visual, Random Alarm, Visual with 20 individual zone indication for Pinpoint Position Indication
2.t	Average time to gen. alarm	Immediate – No Delay
2.u	Privacy safeguards/features	N/A
2.v	Number of rec. operators	One operator
2.w	Tampering safeguards	The unit comes with anti-tampering kit that includes security screws, covers, hardened power supply, and stainless steel control unit with locking cover. The unit has different levels of access to its programming functions all protected by unique passwords
2.x	Sturdiness/fragility of material	<ul style="list-style-type: none"> • Robust and washable panels. Protected against aging, weather and wear. • IP65 Protection with optional Weather Resistant and Anti-vandalism kits.
2.y	Ease of storage	N/A
2.z	Data management	Locally records screenings and alarm % information. Networking option allows greater detail regarding flow information including throughput related to time. Also retains information regarding device logs.
2.aa	Onboard memory storage	1 year of transit flow information and device logs with the

		network card
2.bb	Power requirements	Electric: 100...240V~ -10/+15%, 47...63Hz, 70 VA max Optional Battery (CEIA MBSU)
2.cc	Battery discharge time	MBSU-2 Battery: Up to 9 hours typical (6 hours minimum) continuous operation
2.dd	Battery shelf life (months)	N/A
2.ee	Battery recharge time (hours)	MBSU-2 Battery: 5 hours typical charging time.
2.ff	Battery replacement procedure	Replace in field
2.gg	Supplemental charger options	N/A
2.hh	Safety compliances	1) Complies with and exceeds the applicable Standards for Law Enforcement and Correctional Facilities, 2) Fully compliant with and exceeding the NIJ-0601.02 Standard requirements, 3) Compliant with the applicable electromagnetic Standards on Human Exposure and Pacemaker Safety, 4) Compliant with applicable International Standards for electrical safety and EMC, and 5) Harmless to magnetic media (floppy disks, tapes, etc.). Further certification information and compliance documentation available on request.
2.ii	Radiation safety standards	N/A
2.jj	Length of warranty (months)	24 months
2.kk	Auxiliary equipment	Integrated Video Camera, Metal Divesting Table, Advanced Remote Control Unit (RCU), Mains & Battery Supply Unit (MBSU), Transport & Stability wheel kit, Chip Cards, Test Sample Kits (various), Waterproof Mains Power Supply, Infrared Remote Controller, Remote Relay Unit (RRU)
2.ll	Manufacturer suggested retail price	Available upon request (this detector is on GSA)
2.mm	Extended maintenance plans	Yes
2.nn	Service contract costs	Available – pricing TBD
2.oo	Other information	<ul style="list-style-type: none"> Optional test kits available depending upon security requirements. IP65 Protection with optional Weather Resistant and Anti-vandalism kits. The profiling feature permits the creation of individual metallic signatures or "profiles" of those being screened. The metal detector 'knows' and stores that person's existing metallic signature that would include non-removable items such as dental work, medical implants and embedded metal fragments. Then the SMD601 Plus will alarm if there is more or less metal in or on them during transit.

RFI Q.#	Survey Question (abbreviated)	Response
Usability/Training		
5.a	Usability validation processes	No information provided
5.b	User community data	No information provided
5.c	User-group meetings and frequency	No information provided
5.d	Typical problems reported	No information provided
5.d.i	Resolution to problems	No information provided
5.e	Hours of tech. support and location	No information provided
5.f	Calibration requirements	No information provided
5.g	Training provided (hours)	No information provided

RFI Q.#	Survey Question (abbreviated)	Response
Features and Functions		
6.a	Types of formalize reports	No information provided
6.b	Types of on-demand reports	No information provided

RFI Q.#	Survey Question (abbreviated)	Response
Performance and Security		
7.a	Average installation time	No information provided
7.b	False positive / false negative rates	No information provided
7.c	Mean time to failure	No information provided
7.d	Percent downtime	No information provided
7.e	Data protection mechanisms	No information provided
7.f	Database record management	No information provided

5.43 CellSafe Cell Hound

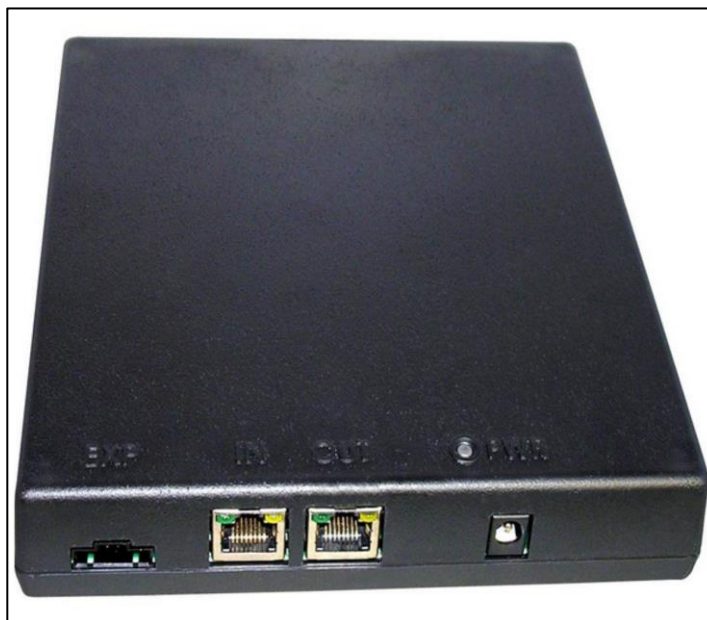


Figure 43. CellSafe Cell Hound

Environmental

RFI Q.#	Survey Question (abbreviated)	Response
Vendor Information		
0	Responded to FRN?	Yes
1.a	Name	CellSafe LLC. (Exelis Inc)
1.b	Address/phone number	No address provided (443) 253-8424
1.c	Website	www.cellhound.com
1.d	Years in business	10 years of development, 7 years of field history/use
1.e	Number and types of customers	No information provided
1.f	Manufacturing location(s)	No information provided

RFI Q.#	Survey Question (abbreviated)	Response
Product Information – Environmental-borne Contraband Detection		
4.a	Name and model number	Cell Hound <ul style="list-style-type: none"> • Integrated Sensor PN# CS_IS-00H • Wall Bracket PN# CS-WB-001 • Sensor Enclosure PN# CS-SE 002 • Sensor Software License PN# CS_SS-005 (current release)
4.b	Primary product purpose	Monitors real time cell phone activity within a facility to determine the location of the alert and displaying the results on a computer.

4.c	Physical dims (HxWxD, inches)	<ul style="list-style-type: none"> • Integrated Sensor (6.2" H x 6.2" W x 1.1" D) • Wall Bracket (9.8" H x 7.9 W x 1.5" D) • Sensor Enclosure (8.5" H x 11.3" W x 4.1" D) NEMA 4x-12 Fiberglass Enclosure
4.d	Operational dims (detection area)	The Cell Hound sensor can detect a Cell phone alert outdoors up to about 300 feet and indoors 50 to 100 feet.
4.e	Weight (lbs)	<ul style="list-style-type: none"> • Integrated Sensor – 0.6 lbs • Wall Bracket – 0.3 lbs • Sensor Enclosure - 4.0 lbs
4.f	Portability (e.g., fixed, handheld)	Fixed
4.g	Operation conditions/limitations	Operating Temperature: -30°C to 60°C (-22 to 140 °F) Storage Temperature: -40°C to 70°C (-40 to 158 °F)
4.h	Ability to detect metal objects	N/A
4.h.i	Types of metals detected	N/A
4.h.ii	Types of metals NOT detected	N/A
4.i	Ability to detect non-metal objects	N/A
4.i.i	Types of non-metals detected	N/A
4.j	Ability to detect other contraband	Detects RF transmissions from cell phones
4.k	Modes of operation	N/A
4.l	Number of detection areas	Detects RF transmissions from cell phones in multi-bands
4.m	Type of detector used	The system uses a power detector design to detect both Spread-spectrum and frequency-hopping transmissions.
4.n	Minimum object size detectable	N/A
4.o	Maximum object size detectable	N/A
4.p	Alert/alarm mechanism	From the time a cell phone alert is detected, the location image is displayed on the map schematic in 3 seconds.
4.q	Average time to gen. alarm	From the time a cell phone alert is detected, the location image is displayed on the map schematic in 3 seconds.
4.r	Number of rec. operators	<ul style="list-style-type: none"> • The system is a 24/7 autonomous system not requiring an operator to be present. • At a minimum one facility or I/T person should be trained on the Manager to support ongoing maintenance if required. • One user should be trained to run reports and interpret the results.
4.s	Tampering safeguards	The system will detect, alert, and record any sensor being disconnected or out of service, a switch offline, or someone turning off the Cell Hound® service or the server. The system integrity check is performed every 33 seconds. If a system component has an issue an alert will be raised in a maximum of 33 seconds. Cell Hound® can be configured in a number of ways. It can be a standalone system with no connection to the Internet or WAN. It can be configured to connect to the customer's LAN protected both by its own Firewall and the customer's Firewall. It is recommended that external connections to the server from outside the customer's network be via a VPN.
4.t	Sturdiness/fragility of material	NEMA 4x-12 Fiberglass Enclosure
4.u	Ease of storage	N/A
4.v	Data management	The Cell Hound® data management is controlled by the Microsoft SQL database implemented in the software application. The data to be saved, archived, and

		subsequent analysis are all customer configurable. The data collected is almost immediately transferred to the archive database from which reports can be generated. The Reporter client tools provide the user with the ability to review archive data online while concurrently providing a data export path to Microsoft Excel. HTML reports can be exported along with video files. The Cell Hound® server, when connected to the institution's/company's LAN or WAN and given proper credentials, can access the data directly allowing someone at a central office or remote location to perform all the operations afforded when connected directly to the server.
4.w	Onboard memory storage	Memory is dependent on the number of sensors supported. For systems larger than 100 sensors and greater, 32 to 64 Gigabytes is recommended.
4.x	Power requirements	Each sensor dissipates about 2.5 watts derived from a standard off the shelf Power-over-Ethernet switch. The power requirement for a standard 24 port switch fully loaded dissipates 600 watts.
4.y	Battery discharge time	N/A
4.z	Battery shelf life (months)	N/A
4.aa	Battery recharge time (hours)	N/A
4.bb	Battery replacement procedure	N/A
4.cc	Supplemental charger options	N/A
4.dd	Safety compliances	Has no transmitter and radiates no RF power and therefore does not require FCC approval to operate.
4.ee	Radiation safety standards	N/A
4.ff	Length of warranty (months)	12 month warranty
4.gg	Auxiliary equipment	N/A
4.hh	Manufacturer suggested retail price	Unit price of 1 - \$1,268.20 High Volume price - \$770.25
4.ii	Extended maintenance plans	<ul style="list-style-type: none"> Extended maintenance plans are available and varied depending on the customer's willingness to allow remote access to the system via VPN. Price for onsite maintenance is based on the system size (number of sensors) and ease of access (travel) to the site. If remote access via a VPN is allowed, the cost to maintain the system is greatly reduced. A pay as you go plan is available as a Time and Material (T&M) contract with a set hourly rate and GSA travel costs.
4.jj	Service contract costs	See extended maintenance plans
4.kk	Other information	<ul style="list-style-type: none"> Scalable system Computers, operating system, and networking equipment is off-the-shelf Does not violate privacy laws

RFI Q.#	Survey Question (abbreviated)	Response
Usability/Training		
5.a	Usability validation processes	The initial system specification was a culmination of input and collaboration with FBOP personnel and a couple of state DOCs. The system underwent several review cycles before it was deemed operationally ready for deployment.

5.b	User community data	As a follow up to section a, multiple pilot tests were conducted and monitored by FBOP, and FBI personnel. Cell Hound® was installed in a building wing of a facility at the vendor's expense. The purpose was to create a testbed where new software and hardware could be tested in a live environment prior to release.
5.c	User-group meetings and frequency	Meetings on an as needed basis.
5.d	Typical problems reported	Improper user installation of the infrastructure and installing systems in wet or damp areas without protection
5.d.i	Resolution to problems	A watertight Sensor Enclosure designed to house the bracket resolved all but a few issues and those that did reappear were due to improper installation of conduit.
5.e	Hours of tech. support and location	Technology support for existing users is at a minimum unless it is a new install. Existing users who allow VPN access see most issues resolved within an hour of the report.
5.f	Calibration requirements	Calibration involves moving about the campus of buildings and floors using various cell phones (different technologies) to make calls and then analyzing the powers measured and the locations displayed. All evaluations and modifications to parameters to fine tune the system take place at the server. Generally takes two to three full days, depending on the size of the install, to evaluate the prior day's system recordings and make changes.
5.g	Training provided (hours)	Installation and maintenance is best accomplished by having the responsible Information Technology individual assigned to the product present during the critical software install steps and when connecting to the site LAN if desired. If facilities will be replacing sensors, they should be present when the first sensors are installed. Operation usage is hands on training. After the system has been operational for a couple of days and there is data to manipulate, users are instructed on how to run reports and interpret the results. This is usually takes a full day or two half days to complete.

RFI Q.#	Survey Question (abbreviated)	Response
Features and Functions		
6.a	Types of formalize reports	All of the data is stored and can be selected and sorted in a number of different fashions (For example: all the data in the database, only alerts of a certain length of time, only calls on Tuesdays, all calls from 1:00 AM to 2:00 AM, between the 5th and the 7th of the month, etc.)
6.b	Types of on-demand reports	With the desired data filters applied and the report run, all alerts matching the filter criterion will be displayed. Each listed alert can be replayed with the Reporters VHS type interface and viewed as if it were happening in real-time and analyzed. Once the report has been generated the user has the option to export the data as an HTML file or as an Excel file. Once exported as an Excel file, the user can use any of the Microsoft tools to further sort and analyze the data.

RFI Q.#	Survey Question (abbreviated)	Response
Performance and Security		
7.a	Average installation time	A few days – months depending on the size of the system and the existing infrastructure.
7.b	False positive / false negative rates	<p>False Positive – These can be attributed to outside interferences or some other source that could look like a cell phone alert. The product being a power sensing system detects power. The source of the power could be just about anything from the second harmonic of an officer’s radio operating at 420 MHz which could make it look like a phone operating in the cellular band. The Cell Hound® product is covered by a patent for the method implemented. In addition, the Manager client allows the customer to block certain frequencies if they are creating false positives.</p> <p>False Negatives – These types of problems occur when the sensor or sensors do not detect the phones output power. Generally this occurs when the cell tower is right outside of the facility and therefore the output power is very low. The Cell Hound® system has programmable detection and location sensor thresholds and which are adjusted during the calibration process. Generally a set of site threshold settings works, but for a large campus the powers can vary greatly. The system was designed in such a fashion that from the server one can set campus threshold, building thresholds all the way to the point where each sensor can have its own threshold, by frequency band.</p>
7.c	Mean time to failure	No number is currently available for Mean Time Between Failures (MTBF) but from a return standpoint there have been 5 sensors returned over the past 8 years because of fail not attributable to external causes out of 3000 sensors.
7.d	Percent downtime	The system appears to be up in excess of 99% of the time. The major factor in old institutions is very poor power distribution. Generally this can be offset with the use of Uninterruptable Power Supplies (UPS’s) on the switches and server.
7.e	Data protection mechanisms	The system data is protected, depending on the customer, by the use of SQL Authentication or Windows Authentication.
7.f	Database record management	An online log book is kept for each customer recording the events taken by CellSafe to their system.

5.44 ChemImage Aperio



Figure 44. ChemImage Aperio

Environmental

RFI Q.#	Survey Question (abbreviated)	Response
Vendor Information		
0	Responded to FRN?	No
1.a	Name	ChemImage Sensor Systems
1.b	Address/phone number	7301 Penn Avenue, Pittsburgh, PA 15208 (412) 241-7335 or 1-877-241-3550
1.c	Website	www.chemimage.com
1.d	Years in business	22 years
1.e	Number and types of customers	Biomedical, forensics, pharmaceutical, and threat detection
1.f	Manufacturing location(s)	Information not found on website

RFI Q.#	Survey Question (abbreviated)	Response
Product Information – Environmental-borne Contraband Detection		
4.a	Name and model number	Aperio
4.b	Primary product purpose	Used to screen for chemicals, explosives, and narcotics
4.c	Physical dims (HxWxD, inches)	8.25" H x 8" W x 14" D
4.d	Operational dims (detection area)	0.33 m @ 1 m standoff, 6.2 m @ 10 m standoff (20 m range)
4.e	Weight (lbs)	8.3 lbs including battery
4.f	Portability (e.g., fixed, handheld)	Handheld
4.g	Operation conditions/limitations	Indoor or outdoor use
4.h	Ability to detect metal objects	Information not found on website
4.h.i	Types of metals detected	Information not found on website
4.h.ii	Types of metals NOT detected	Information not found on website

4.i	Ability to detect non-metal objects	Yes
4.i.i	Types of non-metals detected	Chemicals. Explosives, precursors, and narcotics
4.j	Ability to detect other contraband	Yes
4.k	Modes of operation	Information not found on website
4.l	Number of detection areas	Information not found on website
4.m	Type of detector used	Short-wave infrared hyperspectral imaging sensor
4.n	Minimum object size detectable	Information not found on website
4.o	Maximum object size detectable	Information not found on website
4.p	Alert/alarm mechanism	Information not found on website
4.q	Average time to gen. alarm	Information not found on website
4.r	Number of rec. operators	Information not found on website
4.s	Tampering safeguards	Information not found on website
4.t	Sturdiness/fragility of material	Information not found on website
4.u	Ease of storage	Information not found on website
4.v	Data management	Information not found on website
4.w	Onboard memory storage	Information not found on website
4.x	Power requirements	83 Wh Li-Ion rechargeable battery pack (14.5 W sensor and 28 W lighting)
4.y	Battery discharge time	5 hours
4.z	Battery shelf life (months)	Information not found on website
4.aa	Battery recharge time (hours)	Information not found on website
4.bb	Battery replacement procedure	Information not found on website
4.cc	Supplemental charger options	Information not found on website
4.dd	Safety compliances	Information not found on website
4.ee	Radiation safety standards	Information not found on website
4.ff	Length of warranty (months)	Information not found on website
4.gg	Auxiliary equipment	<ul style="list-style-type: none"> • 1-20 meter imaging area range • 18 degree angular field-of-view • Integrated battery • ChemImage multi conjugate filter (MCF) for wavelength tuning
4.hh	Manufacturer suggested retail price	Information not found on website
4.ii	Extended maintenance plans	Information not found on website
4.jj	Service contract costs	Information not found on website
4.kk	Other information	Capable of detecting bulk and residue materials on surface

RFI Q.#	Survey Question (abbreviated)	Response
Usability/Training		
5.a	Usability validation processes	Information not found on website
5.b	User community data	Information not found on website
5.c	User-group meetings and frequency	Information not found on website
5.d	Typical problems reported	Information not found on website
5.d.i	Resolution to problems	Information not found on website
5.e	Hours of tech. support and location	Toll free hotline
5.f	Calibration requirements	Information not found on website
5.g	Training provided (hours)	Information not found on website

RFI Q.#	Survey Question (abbreviated)	Response
Features and Functions		
6.a	Types of formalize reports	Information not found on website

6.b	Types of on-demand reports	Information not found on website
-----	----------------------------	----------------------------------

RFI Q.#	Survey Question (abbreviated)	Response
Performance and Security		
7.a	Average installation time	Information not found on website
7.b	False positive / false negative rates	Information not found on website
7.c	Mean time to failure	Information not found on website
7.d	Percent downtime	Information not found on website
7.e	Data protection mechanisms	Information not found on website
7.f	Database record management	Information not found on website

5.45 ChemImage VeroVision Mail Screener



Figure 45. ChemImage VeroVision Mail Screener

Environmental

RFI Q.#	Survey Question (abbreviated)	Response
Vendor Information		
0	Responded to FRN?	No
1.a	Name	ChemImage Sensor Systems
1.b	Address/phone number	7301 Penn Avenue, Pittsburgh, PA 15208 (412) 241-7335
1.c	Website	www.cisensorsystems.com
1.d	Years in business	22 years
1.e	Number and types of customers	Biomedical, forensics, pharmaceutical, and threat detection
1.f	Manufacturing location(s)	Information not found on website

RFI Q.#	Survey Question (abbreviated)	Response
Product Information – Environmental-borne Contraband Detection		
4.a	Name and model number	VeroVision Mail Screener
4.b	Primary product purpose	One click detection of illicit substances in mail
4.c	Physical dims (HxWxD, inches)	48" H x 22.5" W x 23" D
4.d	Operational dims (detection area)	9" W x 12" H
4.e	Weight (lbs)	90 lbs
4.f	Portability (e.g., fixed, handheld)	Fixed
4.g	Operation conditions/limitations	Information not found on website

4.h	Ability to detect metal objects	Information not found on website
4.h.i	Types of metals detected	Information not found on website
4.h.ii	Types of metals NOT detected	Information not found on website
4.i	Ability to detect non-metal objects	Yes
4.i.i	Types of non-metals detected	Illicit drug and cutting agents, chemicals
4.j	Ability to detect other contraband	Yes, Illicit drug and cutting agents, chemicals
4.k	Modes of operation	Information not found on website
4.l	Number of detection areas	Information not found on website
4.m	Type of detector used	The system uses near infrared (NIR) hyperspectral imaging (HSI)
4.n	Minimum object size detectable	800-1800 nm
4.o	Maximum object size detectable	Information not found on website
4.p	Alert/alarm mechanism	Visual alerts with imagery
4.q	Average time to gen. alarm	Information not found on website
4.r	Number of rec. operators	Information not found on website
4.s	Tampering safeguards	Information not found on website
4.t	Sturdiness/fragility of material	Information not found on website
4.u	Ease of storage	Information not found on website
4.v	Data management	Information not found on website
4.w	Onboard memory storage	Information not found on website
4.x	Power requirements	100-240 VAC; 50-60Hz
4.y	Battery discharge time	5 hours
4.z	Battery shelf life (months)	Information not found on website
4.aa	Battery recharge time (hours)	Information not found on website
4.bb	Battery replacement procedure	Information not found on website
4.cc	Supplemental charger options	Information not found on website
4.dd	Safety compliances	Information not found on website
4.ee	Radiation safety standards	Information not found on website
4.ff	Length of warranty (months)	Information not found on website
4.gg	Auxiliary equipment	<ul style="list-style-type: none"> • User interface screen • Imagery for documentation • Possible substance identification • 23" all-in-one workstation for user interface • Integrated field-of-view (dual magnification) lens system • 800-1800 nm
4.hh	Manufacturer suggested retail price	Information not found on website
4.ii	Extended maintenance plans	Information not found on website
4.jj	Service contract costs	Information not found on website
4.kk	Other information	Printer available

RFI Q.#	Survey Question (abbreviated)	Response
Usability/Training		
5.a	Usability validation processes	Information not found on website
5.b	User community data	Information not found on website
5.c	User-group meetings and frequency	Information not found on website
5.d	Typical problems reported	Information not found on website
5.d.i	Resolution to problems	Information not found on website
5.e	Hours of tech. support and location	Toll free hotline
5.f	Calibration requirements	Information not found on website
5.g	Training provided (hours)	Information not found on website

RFI Q.#	Survey Question (abbreviated)	Response
Features and Functions		
6.a	Types of formalize reports	Report with imagery for documentation
6.b	Types of on-demand reports	Customizable

RFI Q.#	Survey Question (abbreviated)	Response
Performance and Security		
7.a	Average installation time	Information not found on website
7.b	False positive / false negative rates	Information not found on website
7.c	Mean time to failure	Information not found on website
7.d	Percent downtime	Information not found on website
7.e	Data protection mechanisms	Information not found on website
7.f	Database record management	Information not found on website

5.46 CSECO CT-40 Contraband Team Detection Kit



Figure 46. CSECO CT-40 Contraband Team Detection Kit

Vehicle-Borne

RFI Q.#	Survey Question (abbreviated)	Response
Vendor Information		
0	Responded to FRN?	Yes
1.a	Name	CSECO (Campbell/Harris Security Equipment Company)
1.b	Address/phone number	875–A Island Drive, #356, Alameda, CA 94502-6768 (510) 864-8010
1.c	Website	www.cseco.com
1.d	Years in business	32 years
1.e	Number and types of customers	DHS, US State Dept., US CBP, USCG, CIA, State and Local Law Enforcement
1.f	Manufacturing location(s)	Unknown

RFI Q.#	Survey Question (abbreviated)	Response
Product Information – Vehicle-borne Contraband Detection		
3.a	Name and model number	CT-40 Contraband Team Inspection Kit
3.b	Primary product purpose	Search of entire vehicle
3.c	Physical dims (HxWxD, inches)	24"x20"x10"
3.d	Operational dims (detection area)	No information provided
3.e	Weight (lbs)	32 lbs
3.f	Portability (e.g., fixed, handheld)	Handheld
3.g	Operation conditions/limitations	N/A
3.h	Ability to detect metal objects	Can detect any hidden item, but cannot differentiate

		items
3.i	Ability to detect drugs/alcohol/chems	Can detect any hidden item, but cannot differentiate items
3.j	Ability to detect people or animals	Can detect any hidden item, but cannot differentiate items
3.k	Ability to detect other contraband	Can detect any hidden item, but cannot differentiate items
3.l	Modes of operation	No information provided
3.m	Number of detection areas	No information provided
3.n	Type of detector used	Combination
3.o	Minimum object size detectable	Combination
3.p	Total inspection time (sec/vehicle)	Combination
3.q	Alert/alarm mechanism	Combination
3.r	Average time to gen. alarm	Combination
3.s	Number of rec. operators	1
3.t	Tampering safeguards	N/A
3.u	Sturdiness/fragility of material	Combination
3.v	Ease of storage	Customized kit for storage
3.w	Data management	No information provided
3.x	Onboard memory storage	No information provided
3.y	Power requirements	No information provided
3.z	Battery discharge time	No information provided
3.aa	Battery shelf life (months)	No information provided
3.bb	Battery recharge time (hours)	No information provided
3.cc	Battery replacement procedure	No information provided
3.dd	Supplemental charger options	No information provided
3.ee	Safety compliances	No information provided
3.ff	Radiation safety standards	No information provided
3.gg	Length of warranty (months)	12
3.hh	Auxiliary equipment	Laser rangefinder
3.ii	Manufacturer suggested retail price	\$ 17,999.00
3.jj	Extended maintenance plans	No information provided
3.kk	Service contract costs	No information provided
3.ll	Other information	No information provided

RFI Q.#	Survey Question (abbreviated)	Response
Product Information – Vehicle-borne Contraband Detection		
3.a	Name and model number	Buster K910G Density Meter
3.b	Primary product purpose	Search of entire vehicle
3.c	Physical dims (HxWxD, inches)	5.5"x2.5"x2.5"
3.d	Operational dims (detection area)	No information provided
3.e	Weight (lbs)	2 lbs
3.f	Portability (e.g., fixed, handheld)	Handheld
3.g	Operation conditions/limitations	-10 to 175 degrees F
3.h	Ability to detect metal objects	Can detect any hidden item, but cannot differentiate items
3.i	Ability to detect drugs/alcohol/chems	Can detect any hidden item, but cannot differentiate items
3.j	Ability to detect people or animals	Can detect any hidden item, but cannot differentiate items
3.k	Ability to detect other contraband	Can detect any hidden item, but cannot differentiate items

3.l	Modes of operation	N/A
3.m	Number of detection areas	N/A
3.n	Type of detector used	Gamma radiation
3.o	Minimum object size detectable	3"x2"x0.5" at 6" depth
3.p	Total inspection time (sec/vehicle)	< 15 minutes
3.q	Alert/alarm mechanism	Alarm and visual indicator
3.r	Average time to gen. alarm	Immediate
3.s	Number of rec. operators	1
3.t	Tampering safeguards	N/A
3.u	Sturdiness/fragility of material	durable
3.v	Ease of storage	Customized kit for storage
3.w	Data management	Option for data storage
3.x	Onboard memory storage	N/A
3.y	Power requirements	Battery operated
3.z	Battery discharge time	120 hours
3.aa	Battery shelf life (months)	24
3.bb	Battery recharge time (hours)	N/A
3.cc	Battery replacement procedure	Field replaceable
3.dd	Supplemental charger options	Spares included
3.ee	Safety compliances	CE; ANSI
3.ff	Radiation safety standards	Exempt radioactive source
3.gg	Length of warranty (months)	24
3.hh	Auxiliary equipment	Remote display; batteries
3.ii	Manufacturer suggested retail price	\$6499.00
3.jj	Extended maintenance plans	N/A
3.kk	Service contract costs	N/A
3.ll	Other information	

RFI Q.#	Survey Question (abbreviated)	Response
Product Information – Vehicle-borne Contraband Detection		
3.a	Name and model number	V20 Videoscope
3.b	Primary product purpose	Search of entire vehicle
3.c	Physical dims (HxWxD, inches)	24"x20"x12"
3.d	Operational dims (detection area)	No information provided
3.e	Weight (lbs)	8 lbs
3.f	Portability (e.g., fixed, handheld)	Handheld
3.g	Operation conditions/limitations	5 to 176 degrees F
3.h	Ability to detect metal objects	Can detect any hidden item, but cannot differentiate items
3.i	Ability to detect drugs/alcohol/chems	Can detect any hidden item, but cannot differentiate items
3.j	Ability to detect people or animals	Can detect any hidden item, but cannot differentiate items
3.k	Ability to detect other contraband	Can detect any hidden item, but cannot differentiate items
3.l	Modes of operation	N/A
3.m	Number of detection areas	N/A
3.n	Type of detector used	CCG Video
3.o	Minimum object size detectable	Naked eye visibility
3.p	Total inspection time (sec/vehicle)	< 15 minutes
3.q	Alert/alarm mechanism	Visual anomaly
3.r	Average time to gen. alarm	N/A

3.s	Number of rec. operators	1
3.t	Tampering safeguards	N/A
3.u	Sturdiness/fragility of material	Moderately durable
3.v	Ease of storage	Customized kit for storage
3.w	Data management	2MB Data storage
3.x	Onboard memory storage	2MB Data storage
3.y	Power requirements	Battery operated
3.z	Battery discharge time	6 hours continuous usage
3.aa	Battery shelf life (months)	24
3.bb	Battery recharge time (hours)	4
3.cc	Battery replacement procedure	Field replaceable
3.dd	Supplemental charger options	Spares and charger included
3.ee	Safety compliances	UL Certified Safe
3.ff	Radiation safety standards	N/A
3.gg	Length of warranty (months)	12
3.hh	Auxiliary equipment	spare battery
3.ii	Manufacturer suggested retail price	\$9999.00
3.jj	Extended maintenance plans	N/A
3.kk	Service contract costs	N/A
3.ll	Other information	

RFI Q.#	Survey Question (abbreviated)	Response
Product Information – Vehicle-borne Contraband Detection		
3.a	Name and model number	Undercarriage inspection mirror
3.b	Primary product purpose	Search under vehicle
3.c	Physical dims (HxWxD, inches)	36"x5"x3"
3.d	Operational dims (detection area)	No information provided
3.e	Weight (lbs)	5 lbs
3.f	Portability (e.g., fixed, handheld)	Handheld
3.g	Operation conditions/limitations	No limitations
3.h	Ability to detect metal objects	Can detect any hidden item, but cannot differentiate items
3.i	Ability to detect drugs/alcohol/chems	Can detect any hidden item, but cannot differentiate items
3.j	Ability to detect people or animals	Can detect any hidden item, but cannot differentiate items
3.k	Ability to detect other contraband	Can detect any hidden item, but cannot differentiate items
3.l	Modes of operation	N/A
3.m	Number of detection areas	N/A
3.n	Type of detector used	Visual
3.o	Minimum object size detectable	Naked eye visibility
3.p	Total inspection time (sec/vehicle)	3 minutes
3.q	Alert/alarm mechanism	Visual anomaly
3.r	Average time to gen. alarm	N/A
3.s	Number of rec. operators	1
3.t	Tampering safeguards	N/A
3.u	Sturdiness/fragility of material	Moderately durable
3.v	Ease of storage	Customized kit for storage
3.w	Data management	N/A
3.x	Onboard memory storage	N/A
3.y	Power requirements	N/A

3.z	Battery discharge time	N/A
3.aa	Battery shelf life (months)	N/A
3.bb	Battery recharge time (hours)	N/A
3.cc	Battery replacement procedure	N/A
3.dd	Supplemental charger options	N/A
3.ee	Safety compliances	N/A
3.ff	Radiation safety standards	N/A
3.gg	Length of warranty (months)	24
3.hh	Auxiliary equipment	N/A
3.ii	Manufacturer suggested retail price	\$135
3.jj	Extended maintenance plans	N/A
3.kk	Service contract costs	N/A
3.ll	Other information	

RFI Q.#	Survey Question (abbreviated)	Response
Product Information – Vehicle-borne Contraband Detection		
3.a	Name and model number	CT-PTK Physical Probe Kit
3.b	Primary product purpose	Search seats and contents
3.c	Physical dims (HxWxD, inches)	8"x5"x1"
3.d	Operational dims (detection area)	No information provided
3.e	Weight (lbs)	2 lbs
3.f	Portability (e.g., fixed, handheld)	Handheld
3.g	Operation conditions/limitations	No limitations
3.h	Ability to detect metal objects	Can detect any hidden item, but cannot differentiate items
3.i	Ability to detect drugs/alcohol/chems	Can detect any hidden item, but cannot differentiate items
3.j	Ability to detect people or animals	Can detect any hidden item, but cannot differentiate items
3.k	Ability to detect other contraband	Can detect any hidden item, but cannot differentiate items
3.l	Modes of operation	N/A
3.m	Number of detection areas	N/A
3.n	Type of detector used	Physical
3.o	Minimum object size detectable	No limitations
3.p	Total inspection time (sec/vehicle)	-
3.q	Alert/alarm mechanism	N/A
3.r	Average time to gen. alarm	N/A
3.s	Number of rec. operators	1
3.t	Tampering safeguards	N/A
3.u	Sturdiness/fragility of material	Extremely durable
3.v	Ease of storage	Customized kit for storage
3.w	Data management	N/A
3.x	Onboard memory storage	N/A
3.y	Power requirements	N/A
3.z	Battery discharge time	N/A
3.aa	Battery shelf life (months)	N/A
3.bb	Battery recharge time (hours)	N/A
3.cc	Battery replacement procedure	N/A
3.dd	Supplemental charger options	N/A
3.ee	Safety compliances	N/A
3.ff	Radiation safety standards	N/A

3.gg	Length of warranty (months)	Lifetime
3.hh	Auxiliary equipment	N/A
3.ii	Manufacturer suggested retail price	\$159
3.jj	Extended maintenance plans	N/A
3.kk	Service contract costs	N/A
3.ll	Other information	

RFI Q.#	Survey Question (abbreviated)	Response
Usability/Training		
5.a	Usability validation processes	No information provided
5.b	User community data	No information provided
5.c	User-group meetings and frequency	No information provided
5.d	Typical problems reported	No information provided
5.d.i	Resolution to problems	No information provided
5.e	Hours of tech. support and location	No information provided
5.f	Calibration requirements	No information provided
5.g	Training provided (hours)	No information provided

RFI Q.#	Survey Question (abbreviated)	Response
Features and Functions		
6.a	Types of formalize reports	No information provided
6.b	Types of on-demand reports	No information provided

RFI Q.#	Survey Question (abbreviated)	Response
Performance and Security		
7.a	Average installation time	No information provided
7.b	False positive / false negative rates	No information provided
7.c	Mean time to failure	No information provided
7.d	Percent downtime	No information provided
7.e	Data protection mechanisms	No information provided
7.f	Database record management	No information provided

5.47 Decision Sciences Multi-Mode Passive Detection System (MMPDS) GEN3

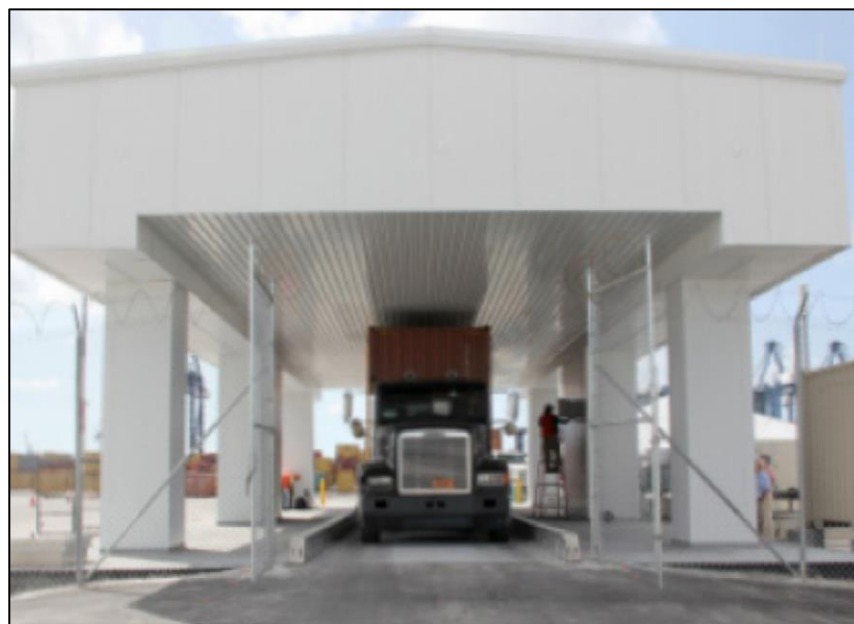


Figure 47. Decision Sciences MMPDS GEN3

Vehicle-Borne

RFI Q.#	Survey Question (abbreviated)	Response
Vendor Information		
0	Responded to FRN?	Yes
1.a	Name	Decision Sciences International Corporation
1.b	Address/phone number	12345 First American Way, Poway, CA 92064. Phone: 858-571-1900
1.c	Website	www.decisionsciences.com
1.d	Years in business	10 years
1.e	Number and types of customers	Currently has four U.S. customers and two international customers. All customers are either federal government entities, involved in national security or critical infrastructure.
1.f	Manufacturing location(s)	Poway, CA

RFI Q.#	Survey Question (abbreviated)	Response
Product Information – Vehicle-borne Contraband Detection		
3.a	Name and model number	MMPDS MET 2436 and MET 2472
3.b	Primary product purpose	Passive scanning
3.c	Physical dims (HxWxD, inches)	detectors sized for small packages, passenger cars, and semi-tractor trailers would all have significantly different dimensions. The MET 2436 detector, sized for a 1 TEU

		container, is 24 feet wide by 36 feet long. Each upper and lower detector is 24 inches thick
3.d	Operational dims (detection area)	See above
3.e	Weight (lbs)	Each aluminum drift tube within the muon tracker is currently 2" in diameter with a wall thickness of (0.035") and weight per foot of 0.3 lbs. Since there are twelve crisscrossed rows in the muon tracker, each square foot weighs approximately 20 lbs. For MET 2436, each detector, associated structure, and electronics weights approximately 10 tons.
3.f	Portability (e.g., fixed, handheld)	may either be fixed or relocatable depending upon customer requirements.
3.g	Operation conditions/limitations	-10°C to +55°C (14°F to 131°F). For expected temperatures above 45°C (113°F), a sun shade shelter and solar powered cooling for critical MMPDS components are integrated into the design that ensures electronics remain within the temperature range of -10°C to +45°C (14°F to 113°F).
3.h	Ability to detect metal objects	Yes
3.i	Ability to detect drugs/alcohol/chems	Yes
3.j	Ability to detect people or animals	Yes
3.k	Ability to detect other contraband	capable of identifying multiple threat and contraband types to include explosives, weapons, drugs, precious metals, humans, banned materials, and often-smuggled materials such as tobacco and alcohol. These threat and contraband objects can be detected through all types of shielding-materials to include items stored in lead or steel with thicknesses exceeding 1000mm.
3.l	Modes of operation	MMPDS has a single mode of operation and detects all threats and cargoes of interest in a single scan. Based on the concept of operations and customer requirements, MMPDS has two scan options: primary scan and extended scan. The specific times associated with these scan times depend heavily on customer requirements and must be thoroughly analyzed. However, primary scan is intended to be fast in order to quickly and automatically clear most routine cargo. Most customers define a primary scan time requirement of less than 2 minutes. Extended scan is available for situations when information or intelligence indicates that a threat is more likely or when the primary scan indicates that further investigation is warranted. There is no standard time for extended scan except as necessitated by the customer for throughput and desired confidence levels.
3.m	Number of detection areas	Single pass through
3.n	Type of detector used	Naturally occurring passive charged particle tomography
3.o	Minimum object size detectable	MMPDS GEN3 is a static, naturally passive scanning system capable of identifying multiple threat and contraband types to include explosives, weapons, drugs, precious metals, humans, banned materials, and often-smuggled materials such as tobacco and alcohol. These threat and contraband objects can be detected through all types of shielding-materials to include items stored in lead or steel with thicknesses exceeding 1000mm. The MMPDS GEN3 incorporates the most recent and

		<p>advanced technology available and its 100% naturally passive operation means it will have no effect on human health, the environment, electronic equipment or biological materials.</p> <p>Next-Generation: MMPDS GEN3 represents a next-generation line of security and contraband detection capable of scanning trucks, containers, and passenger vehicles at checkpoints, ports, and airports; automatically signaling the presence of a wide variety of threats and contraband, including radiological and nuclear materials (shielded and unshielded), explosives, weapons, alcohol, cigarettes/tobacco, drugs/narcotics, precious metals, smuggled humans and, concealed cargo via identification of anomalous material or hidden compartments.</p> <p>Material Detection & Identification: The proprietary MMPDS GEN3 Material ID/Signature Library is a key component and differentiator that is the basis of the MMPDS's ability to detect and identify materials as opposed to simply creating an image of what can be seen by X-Ray. These libraries can be tailored to include contraband of particular interest to customers and to optimize detection given a particular concept of operation (CONOP). The system captures a map/image of the density signatures of materials located in the scan volume during the scanning period and then uses the libraries to identify potential threats or contraband in the scan volume and assign detection confidence levels to each detected object or material.</p>
3.p	Total inspection time (sec/vehicle)	<p>Based on the concept of operations and customer requirements, MMPDS has two scan options: primary scan and extended scan. The specific times associated with these scan times depend heavily on customer requirements and must be thoroughly analyzed. However, primary scan is intended to be fast in order to quickly and automatically clear most routine cargo. Most customers define a primary scan time requirement of less than 2 minutes. Extended scan is available for situations when information or intelligence indicates that a threat is more likely or when the primary scan indicates that further investigation is warranted. There is no standard time for extended scan except as necessitated by the customer for throughput and desired confidence levels.</p>
3.q	Alert/alarm mechanism	<p>After a vehicle/container has been scanned, proprietary algorithms and software use the captured data to create and present a 3-D map of the material signatures within the vehicle or container. Visualization tools are provided including contouring and color maps, image slicing, and other sophisticated volume visualization techniques. These visualization tools indicate the spatial location and distribution of the materials and objects based on their scattering and absorption strengths, as well as</p>

		<p>agreement to the material signature library.</p> <p>After a scan is complete, a reconstructed map of the scanned volume is available for review by an operator. This map will consist of numerous objects or distinct volume segments identified by the reconstruction that are based on density or signature of the contents within the scanned volume. At the request of the operator, the measured scattering and stopping properties of a chosen object will be displayed together with a list of materials that are known to have similar properties. This information will be obtained from a library of materials that is installed on the system.</p> <p>While the MMPDS is intended to provide automatic “clear” or “alert” indications to the operator for nuclear and radiological threats, imagery is also useful for secondary analyses and can be used to highlight anomalies between what contents are expected to be in the cargo container, vehicle or conveyance and what is shown in the imagery. For example, contraband may appear as anomalies such as objects or materials hidden within other objects, objects concealed in hidden compartments, and highly cluttered or variable contents. These scenes deserve enhanced scrutiny and can be automatically referred for operator interpretation and comparison with the cargo manifest.</p>
3.r	Average time to gen. alarm	Average scan time is less than 2 minutes. Scan time can be parametrically varied along with probability of detection and minimum quantity requirements.
3.s	Number of rec. operators	One
3.t	Tampering safeguards	Because connectivity with the MMPDS is required for command and control interfaces or other customer information exchange systems, MMPDS recommends strict firewall and port security protocols to prevent any external access to internal MMPDS operations. Physical security measures would be required to prevent intentional damage or unintentional disassembly, although any disassembly of a fully installed MMPDS would require substantial equipment. Since MMPDS is naturally passive, it would not be susceptible to traditional jamming measures except for those that would affect computer systems generally.
3.u	Sturdiness/fragility of material	MMPDS has no moving parts and is comprised primarily of gas filled Aluminum ionization chambers (drift tubes) that track the cosmic ray charged particles, specialized electronics such as time-domain controllers and high speed system clocks, and commercial-off-the-shelf computer equipment (see paragraph hh). The system requires very little routine maintenance other than what would normally be required for any computer system. Corrective maintenance would only be required in the event of an electronic component failure (either specialized or commercial-off-the-shelf) and would consist of replacing the faulty component and conducted an applicable retest to verify proper operation. As a result, MMPDS has high operational availability (>95%),

		a low maintenance burden, and a low training burden for maintenance personnel. As a result, MMPDS is extremely sturdy relative to the industry standard for scanning and detection equipment in this mission area.
3.v	Ease of storage	Securing MMPDS when not in use would be very simple and would consist of properly shutting down all computer equipment and securing the facility in accordance with local physical security procedures..
3.w	Data management	A standard MMPDS installation will be able to store scan records for at least 50,000 scans locally on the system. Additional storage is possible depending on customer requirements and would simply require additional hard drive capacity. The customer may also export, backup, or otherwise archive MMPDS scans if additional storage is required. Any scan within the system can be retrieved instantly. Scans that have been archived in some way would need to be loaded with an MMPDS client or back into the system to be viewed.
3.x	Onboard memory storage	Assuming 25 scans per hour, and 8 hours of operation per day, MMPDS would be able to retain at least 250 days worth of images locally, and would require either additional storage, backup, or archive functionality discussed in paragraph w. to retain more locally.
3.y	Power requirements	MMPDS requires an estimated 25 kVA of power for a typical installation.
3.z	Battery discharge time	N/A
3.aa	Battery shelf life (months)	N/A
3.bb	Battery recharge time (hours)	N/A
3.cc	Battery replacement procedure	The only battery in the system is contained in the uninterruptible power supply (UPS), which is a commercial-off-the-shelf piece of equipment. The maintenance of this component may be performed by the customer, Decision Sciences, or a third-party and will be determined by the terms and conditions of any service contracts or maintenance agreements.
3.dd	Supplemental charger options	Solar panels can be installed if desired to provide a redundant power supply.
3.ee	Safety compliances	The Generation 3 MMPDS is a new product and these types of certifications are normally obtained during the contracting phase for the first customer in a specific market with market-specific certification standards such as these. MMPDS conforms to all widely accepted international safety standards such as UL/CE electrical safety, and Decision Sciences complies with industry quality standards such as ISO 9001.
3.ff	Radiation safety standards	MMPDS is completely and naturally passive, no radiation safety standards apply.
3.gg	Length of warranty (months)	From the Delivery Date and continuing thereafter for 12 months (the "Warranty Period"), the MMPDS shall operate substantially in conformity with the manufacturer's system specifications ("Warranty"). The Warranty does not apply to: (1) any cosmetic or superficial damage or wear and tear to the MMPDS, or (2) MMPDS that have been misused, neglected, modified, altered, adjusted, or tampered with; (3)

		<p>MMPDS that have been repaired by any person not authorized by Decision Sciences; (4) MMPDS that have been subjected to unusual stress or have not been maintained in accordance with Decision Sciences' instructions or as demonstrated by Decision Sciences' representative; or (5) MMPDS that have been repaired or altered with any unauthorized components or software. Any modification, refurbishment, or repair to the MMPDS by Customer or a third party without the written approval of Decision Sciences (including without limitation the loading of any unauthorized software on the MMPDS) will immediately void the Warranty in its entirety. Decision Sciences' sole liability with respect to the foregoing Warranty shall be to repair or replace the MMPDS that is not in compliance with such Warranty.</p>
3.hh	Auxiliary equipment	<p>The MMPDS computer cluster is comprised of commercial-off-the-shelf computer servers and associated support equipment (e.g. redundant array of independent disks, the UPS, local network equipment, monitors, keyboards, etc.). The standard UPS provided by Decision Sciences is not intended to function as a back-up power supply for extended operation, but merely provides sufficient time to shut down the system in a controlled fashion. These components are all readily replaceable in the event of a problem. Some customers have expressed an interest in additional capacity or redundancy that could be provided by additional UPS capacity, automatic backup diesel generators, solar panels, etc. These options are not standard and are considered on a case-by-case basis depending on customer requirements.</p>
3.ii	Manufacturer suggested retail price	<p>Due to the integration requirements for a system of this size, the specific customer requirements, and unique site layout needs, Decision Sciences cannot price a full MMPDS installation without a better understanding of customer needs. To provide a rough order of magnitude, the price of a full-size MMPDS installation is comparable to a fixed-site high energy X-ray system. However, since the technology is scalable, customers may not require full-size systems, which could substantially reduce the price.</p>
3.jj	Extended maintenance plans	<p>Company reports they offer different types of support contracts and will work closely with partners and customers to tailor these to specific requirements. Support can be part of the initial purchase contract or can be a separate, stand-alone contract, or even a series of separate contracts should a customer want to address different support requirements under different timelines and within different budgets.</p> <p>Company says they will work to accommodate the support requirements of their customers for:</p> <ul style="list-style-type: none"> • Maintenance Operations to include spare parts and routine maintenance; • Product Support that may include provisions for periodic optimization, re-calibration, additional "system

		training” and/or hardware and software upgrades; and <ul style="list-style-type: none"> • Operations Support that may include additional personnel training and systems operations support.
3.kk	Service contract costs	Given the varied options above, standard service contracts costs are not available. Each contract will depend on specific customer needs.
3.ll	Other information	No information provided

RFI Q.#	Survey Question (abbreviated)	Response
Usability/Training		
5.a	Usability validation processes	No information provided
5.b	User community data	No information provided
5.c	User-group meetings and frequency	No information provided
5.d	Typical problems reported	No information provided
5.d.i	Resolution to problems	No information provided
5.e	Hours of tech. support and location	No information provided
5.f	Calibration requirements	No information provided
5.g	Training provided (hours)	No information provided

RFI Q.#	Survey Question (abbreviated)	Response
Features and Functions		
6.a	Types of formalize reports	On-screen and hard-copy
6.b	Types of on-demand reports	Real-time reporting via the user interface

RFI Q.#	Survey Question (abbreviated)	Response
Performance and Security		
7.a	Average installation time	Typically about 4 months from assembly to completion of System Acceptance Test
7.b	False positive / false negative rates	Configurable to user defined requirements. Typical PFA is less than 1% and PFC less than 5%
7.c	Mean time to failure	No information provided
7.d	Percent downtime	Less than 5% over a year
7.e	Data protection mechanisms	Sensitive data is encrypted
7.f	Database record management	No information provided

5.48 Digital Barriers ThruVision TS4A



Figure 48. Digital Barriers ThruVision TS4A

Person-Borne

RFI Q.#	Survey Question (abbreviated)	Response
Vendor Information		
0	Responded to FRN?	Yes
1.a	Name	Digital Barriers
1.b	Address/phone number	Digital Barriers plc, Cargo Works, 1-2 Hatfields, London SE1 9PG, United Kingdom 44 (0) 203-553-5888
1.c	Website	www.digitalbarriers.com
1.d	Years in business	ThruVision has been in business for 11 years. Digital Barriers acquired ThruVision in March 2012. Digital Barriers has been in business for 6 years.
1.e	Number and types of customers	100+ customers: domestic and international customs, border security, loss prevention, anti-terrorist (bomb detection), law enforcement police (guns and knives detection)
1.f	Manufacturing location(s)	Oxfordshire, UK

RFI Q.#	Survey Question (abbreviated)	Response
Product Information – Person-borne Contraband Detection		
2.a	Name and model number	ThruVision TS4A; Model number TS4A
2.b	Primary product purpose	Detects concealed items under clothing at long standoff distances.
2.c	Physical dims (HxWxD, inches)	22" H x 8" W x 26" D
2.d	Operational dims (detection area)	Range 3m to 7m
2.e	Weight (lbs)	53 lbs
2.f	Portability (e.g., fixed, handheld)	Fixed; typically used in fixed locations, but can be transportable.
2.g	Intended environment (e.g., indoor)	Indoor temperature controlled environment, < 28°C
2.h	Operation conditions/limitations	0°C < Temperature < 28°C
2.i	Ability to detect metal objects	Yes
2.i.i	Types of metals detected	All
2.i.ii	Types of metals NOT detected	None
2.j	Ability to detect non-metal objects	Yes
2.j.i	Types of non-metals detected	ThruVision can detect non-metal materials such as liquids, gels, plastics, wood, ceramic, powder, paper, currency, etc.
2.k	Ability to detect in body cavities	No; ThruVision, today, cannot see through skin.
2.k.i	Types of body cavities penetrable	None
2.l	Ability to detect other contraband	It can detect objects unless they are at body temperature. (Metal always visible regardless of its temperature).
2.m	Modes of operation	There are no requirements needed to change settings.
2.n	Number of detection areas	There are no limits to the number of detection areas. ThruVision can run a full body scanning.
2.o	Type of detector used	Passive millimeter wave/Terahertz (250 Hz)
2.p	Minimum object size detectable	3" H x 3" W x 0.5" D; however there is no absolute limit. Image contrast is reduced for smaller objects.
2.p.i	Size on a person	Yes
2.p.ii	Size in a body cavity	No
2.q	Total inspection time (sec/person)	Full screen: 6 positions x (2 second scan + 5 second move) = 40 seconds
2.r	Penetration depth (inches)	The system does not penetrate the skin. However, it can penetrate clothing to detect concealed objects.
2.s	Alert/alarm mechanism	The system will alert user with an image and/or alarm. The system can also be disabled.
2.t	Average time to gen. alarm	2 seconds
2.u	Privacy safeguards/features	Remove viewing is possible. Picture is anatomically detailed. The area of interest can be highlighted on normal video image.
2.v	Number of rec. operators	One
2.w	Tampering safeguards	None
2.x	Sturdiness/fragility of material	Not suitable for public access; the window material is not robust.
2.y	Ease of storage	Yes; turn off power and put in a box/cupboard.
2.z	Data management	The data collected from ThruVision can be saved.
2.aa	Onboard memory storage	Depends on external laptop or desktop computer; essentially unlimited by design.
2.bb	Power requirements	90-264 V, 50-60 Hz universal mains input
2.cc	Battery discharge time	N/A
2.dd	Battery shelf life (months)	N/A

2.ee	Battery recharge time (hours)	N/A
2.ff	Battery replacement procedure	N/A
2.gg	Supplemental charger options	N/A
2.hh	Safety compliances	CE marked for safety and EMC compliance
2.ii	Radiation safety standards	N/A
2.jj	Length of warranty (months)	12 months
2.kk	Auxiliary equipment	Various mounting brackets and stands
2.ll	Manufacturer suggested retail price	\$107,000
2.mm	Extended maintenance plans	Yes; negotiable depending on service level required
2.nn	Service contract costs	Negotiable depending on service level required
2.oo	Other information	No information provided

RFI Q.#	Survey Question (abbreviated)	Response
Usability/Training		
5.a	Usability validation processes	No information provided
5.b	User community data	No information provided
5.c	User-group meetings and frequency	No information provided
5.d	Typical problems reported	No information provided
5.d.i	Resolution to problems	No information provided
5.e	Hours of tech. support and location	No information provided
5.f	Calibration requirements	No information provided
5.g	Training provided (hours)	No information provided

RFI Q.#	Survey Question (abbreviated)	Response
Features and Functions		
6.a	Types of formalize reports	No information provided
6.b	Types of on-demand reports	No information provided

RFI Q.#	Survey Question (abbreviated)	Response
Performance and Security		
7.a	Average installation time	No information provided
7.b	False positive / false negative rates	No information provided
7.c	Mean time to failure	No information provided
7.d	Percent downtime	No information provided
7.e	Data protection mechanisms	No information provided
7.f	Database record management	No information provided

5.49 Digital X-Ray Specialist SecurPass



Figure 49. Digital X-Ray Specialist SecurPass

Person-Borne

RFI Q.#	Survey Question (abbreviated)	Response
Vendor Information		
0	Responded to FRN?	No
1.a	Name	Digital X-Ray Specialist, Inc
1.b	Address/phone number	3700 pleasant Ridge Road, Knoxville, TN 37921 (865) 670-2870
1.c	Website	www.dxsinc.com
1.d	Years in business	Information not found on website
1.e	Number and types of customers	Information not found on website
1.f	Manufacturing location(s)	Information not found on website

RFI Q.#	Survey Question (abbreviated)	Response
Product Information – Person-borne Contraband Detection		
2.a	Name and model number	SecurPass
2.b	Primary product purpose	Low dose X-ray scanning system that detects all types of dangerous or illegal substances.
2.c	Physical dims (HxWxD, inches)	101.2" H x 86.1" W x 89.4" D
2.d	Operational dims (detection area)	81.9" x 29.1"
2.e	Weight (lbs)	1433 lbs
2.f	Portability (e.g., fixed, handheld)	Fixed
2.g	Intended environment (e.g., indoor)	Indoor
2.h	Operation conditions/limitations	Information not found on website
2.i	Ability to detect metal objects	Yes

2.i.i	Types of metals detected	Ferrous and nonferrous
2.i.ii	Types of metals NOT detected	N/A
2.j	Ability to detect non-metal objects	Yes
2.j.i	Types of non-metals detected	Liquid explosives, drugs, plastics, etc.
2.k	Ability to detect in body cavities	Yes
2.k.i	Types of body cavities penetrable	All
2.l	Ability to detect other contraband	Yes
2.m	Modes of operation	High penetration mode
2.n	Number of detection areas	Information not found on website
2.o	Type of detector used	The system uses micro dose fan beam, slot scanning technology (transmission x-ray).
2.p	Minimum object size detectable	Information not found on website
2.p.i	Size on a person	Information not found on website
2.p.ii	Size in a body cavity	Information not found on website
2.q	Total inspection time (sec/person)	8 sec/person
2.r	Penetration depth (inches)	1.18 in steel
2.s	Alert/alarm mechanism	Information not found on website
2.t	Average time to gen. alarm	Real time
2.u	Privacy safeguards/features	System does not reveal skin surface or fine anatomical detail
2.v	Number of rec. operators	Information not found on website
2.w	Tampering safeguards	Information not found on website
2.x	Sturdiness/fragility of material	Information not found on website
2.y	Ease of storage	Information not found on website
2.z	Data management	Ability to store an image in a JPEG or BMAP format for long term storage or e-mailing
2.aa	Onboard memory storage	40,000 images
2.bb	Power requirements	220V / 110 V; 15A; 50-60 Hz, 2 kW
2.cc	Battery discharge time	N/A
2.dd	Battery shelf life (months)	N/A
2.ee	Battery recharge time (hours)	N/A
2.ff	Battery replacement procedure	N/A
2.gg	Supplemental charger options	N/A
2.hh	Safety compliances	Information not found on website
2.ii	Radiation safety standards	Federal regulations regard this imaging technology as NID (negligible individual dose) Less than 0.25 uSv
2.jj	Length of warranty (months)	Information not found on website
2.kk	Auxiliary equipment	<ul style="list-style-type: none"> • Monoblock oil cooled generator • 22" imaging system monitor
2.ll	Manufacturer suggested retail price	Information not found on website
2.mm	Extended maintenance plans	Information not found on website
2.nn	Service contract costs	Information not found on website
2.oo	Other information	<ul style="list-style-type: none"> • inspection of shoes and clothing without removal • 30 AWG spatial resolution • Platform can scan left to right, right to left, or bi-directional • Industrial grade monoblock x-ray generator is used to provide a rating of 10,000 hours or 4,500,000 images

RFI Q.#	Survey Question (abbreviated)	Response
Usability/Training		
5.a	Usability validation processes	Information not found on website
5.b	User community data	Information not found on website
5.c	User-group meetings and frequency	Information not found on website
5.d	Typical problems reported	Information not found on website
5.d.i	Resolution to problems	Information not found on website
5.e	Hours of tech. support and location	Information not found on website
5.f	Calibration requirements	Automatic calibration prior to every scan
5.g	Training provided (hours)	Information not found on website

RFI Q.#	Survey Question (abbreviated)	Response
Features and Functions		
6.a	Types of formalize reports	Information not found on website
6.b	Types of on-demand reports	Information not found on website

RFI Q.#	Survey Question (abbreviated)	Response
Performance and Security		
7.a	Average installation time	Information not found on website
7.b	False positive / false negative rates	Information not found on website
7.c	Mean time to failure	Information not found on website
7.d	Percent downtime	Information not found on website
7.e	Data protection mechanisms	Information not found on website
7.f	Database record management	Information not found on website

5.50 Fisher Research Labs CW-10



Figure 50. Fisher Research Labs CW-10

Person-Borne

RFI Q.#	Survey Question (abbreviated)	Response
Vendor Information		
0	Responded to FRN?	No
1.a	Name	Fisher Research Labs
1.b	Address/phone number	1465-H Henry Brennan El Paso, Texas 79936 (915) 225-0333 1-800-685-5050
1.c	Website	www.fisherlab.com
1.d	Years in business	85 years
1.e	Number and types of customers	hobby, security, and utility customers (international)
1.f	Manufacturing location(s)	Information not found on website

RFI Q.#	Survey Question (abbreviated)	Response
Product Information – Person-borne Contraband Detection		
2.a	Name and model number	Fisher CW-10
2.b	Primary product purpose	Hand-held concealed weapons detector for residential installation
2.c	Physical dims (HxWxD, inches)	15.75" D x 2.5" W x 1" H
2.d	Operational dims (detection area)	Information not found on website
2.e	Weight (lbs)	0.7 lbs (with battery)
2.f	Portability (e.g., fixed, handheld)	Handheld
2.g	Intended environment (e.g., indoor)	Information not found on website
2.h	Operation conditions/limitations	Operating Temperature: -20°C to 70°C (-4 to 158 °F)
2.i	Ability to detect metal objects	Yes
2.i.i	Types of metals detected	Ferrous and non-ferrous metal
2.i.ii	Types of metals NOT detected	Information not found on website
2.j	Ability to detect non-metal objects	No
2.j.i	Types of non-metals detected	N/A
2.k	Ability to detect in body cavities	Information not found on website
2.k.i	Types of body cavities penetrable	Information not found on website
2.l	Ability to detect other contraband	Information not found on website

2.m	Modes of operation	Information not found on website
2.n	Number of detection areas	Information not found on website
2.o	Type of detector used	Motion detector
2.p	Minimum object size detectable	Information not found on website
2.p.i	Size on a person	Information not found on website
2.p.ii	Size in a body cavity	Information not found on website
2.q	Total inspection time (sec/person)	Information not found on website
2.r	Penetration depth (inches)	Information not found on website
2.s	Alert/alarm mechanism	LED power, vibration, and audio/visual alarm status indicators
2.t	Average time to gen. alarm	Information not found on website
2.u	Privacy safeguards/features	Information not found on website
2.v	Number of rec. operators	Information not found on website
2.w	Tampering safeguards	Information not found on website
2.x	Sturdiness/fragility of material	Information not found on website
2.y	Ease of storage	Small, portable system
2.z	Data management	Information not found on website
2.aa	Onboard memory storage	Information not found on website
2.bb	Power requirements	9 volt battery
2.cc	Battery discharge time	30-40 hours
2.dd	Battery shelf life (months)	Information not found on website
2.ee	Battery recharge time (hours)	No rechargeable battery
2.ff	Battery replacement procedure	Replace battery by sliding off strap and cover then insert new battery
2.gg	Supplemental charger options	No charger
2.hh	Safety compliances	Class B digital device following Part 15 of FCC rules
2.ii	Radiation safety standards	Information not found on website
2.jj	Length of warranty (months)	24 months
2.kk	Auxiliary equipment	<ul style="list-style-type: none"> • handheld • Battery powered • Tools-free hardware
2.ll	Manufacturer suggested retail price	Information not found on website
2.mm	Extended maintenance plans	Information not found on website
2.nn	Service contract costs	Information not found on website
2.oo	Other information	<ul style="list-style-type: none"> • 110 kHz operating frequency • 2700 Hz audio frequency • Automatically calibrated with no tuning required

RFI Q.#	Survey Question (abbreviated)	Response
Usability/Training		
5.a	Usability validation processes	Information not found on website
5.b	User community data	Information not found on website
5.c	User-group meetings and frequency	Information not found on website
5.d	Typical problems reported	Information not found on website
5.d.i	Resolution to problems	Information not found on website
5.e	Hours of tech. support and location	Information not found on website
5.f	Calibration requirements	Automatically calibrated when turned on
5.g	Training provided (hours)	Information not found on website

RFI Q.#	Survey Question (abbreviated)	Response
Features and Functions		
6.a	Types of formalize reports	Information not found on website
6.b	Types of on-demand reports	Information not found on website

RFI Q.#	Survey Question (abbreviated)	Response
Performance and Security		
7.a	Average installation time	Information not found on website
7.b	False positive / false negative rates	Information not found on website
7.c	Mean time to failure	Information not found on website
7.d	Percent downtime	Information not found on website
7.e	Data protection mechanisms	Information not found on website
7.f	Database record management	Information not found on website

5.51 Fisher Research Labs CW-20



Figure 51. Fisher Research Labs CW-20

Person-Borne

RFI Q.#	Survey Question (abbreviated)	Response
Vendor Information		
0	Responded to FRN?	No
1.a	Name	Fisher Research Labs
1.b	Address/phone number	1465-H Henry Brennan El Paso, Texas 79936 (915) 225-0333 1-800-685-5050
1.c	Website	www.fisherlab.com
1.d	Years in business	85 years
1.e	Number and types of customers	hobby, security, and utility customers (international)
1.f	Manufacturing location(s)	Information not found on website

RFI Q.#	Survey Question (abbreviated)	Response
Product Information – Person-borne Contraband Detection		
2.a	Name and model number	Fisher CW-20 Hand-Held Concealed Weapons Detector
2.b	Primary product purpose	Economical high performance security metal detector
2.c	Physical dims (HxWxD, inches)	16.5" H x 3.5" W x 1.4" D
2.d	Operational dims (detection area)	Information not found on website
2.e	Weight (lbs)	0.9 lbs
2.f	Portability (e.g., fixed, handheld)	Handheld
2.g	Intended environment (e.g., indoor)	Information not found on website
2.h	Operation conditions/limitations	Information not found on website
2.i	Ability to detect metal objects	Yes
2.i.i	Types of metals detected	Ferrous and non-ferrous metals
2.i.ii	Types of metals NOT detected	Information not found on website
2.j	Ability to detect non-metal objects	No
2.j.i	Types of non-metals detected	None
2.k	Ability to detect in body cavities	Information not found on website
2.k.i	Types of body cavities penetrable	Information not found on website
2.l	Ability to detect other contraband	Information not found on website
2.m	Modes of operation	Information not found on website
2.n	Number of detection areas	Information not found on website
2.o	Type of detector used	Information not found on website
2.p	Minimum object size detectable	Information not found on website

2.p.i	Size on a person	Information not found on website
2.p.ii	Size in a body cavity	Information not found on website
2.q	Total inspection time (sec/person)	Information not found on website
2.r	Penetration depth (inches)	Information not found on website
2.s	Alert/alarm mechanism	LED power, vibration, and audio/visual alarm status indicators
2.t	Average time to gen. alarm	Information not found on website
2.u	Privacy safeguards/features	Silent operation mode
2.v	Number of rec. operators	Information not found on website
2.w	Tampering safeguards	3 Operating frequency selections to eliminate electromagnetic interference
2.x	Sturdiness/fragility of material	Information not found on website
2.y	Ease of storage	Small
2.z	Data management	Information not found on website
2.aa	Onboard memory storage	Information not found on website
2.bb	Power requirements	9 volt battery
2.cc	Battery discharge time	Information not found on website
2.dd	Battery shelf life (months)	Information not found on website
2.ee	Battery recharge time (hours)	No rechargeable batteries
2.ff	Battery replacement procedure	Use screwdriver to replace 9 volt battery once yellow light appears
2.gg	Supplemental charger options	None
2.hh	Safety compliances	Information not found on website
2.ii	Radiation safety standards	Information not found on website
2.jj	Length of warranty (months)	24 months
2.kk	Auxiliary equipment	<ul style="list-style-type: none"> • Comfort hand grip • Handheld • Momentary low toggle switch
2.ll	Manufacturer suggested retail price	Information not found on website
2.mm	Extended maintenance plans	Information not found on website
2.nn	Service contract costs	Information not found on website
2.oo	Other information	3 operating frequency settings

RFI Q.#	Survey Question (abbreviated)	Response
Usability/Training		
5.a	Usability validation processes	Information not found on website
5.b	User community data	Information not found on website
5.c	User-group meetings and frequency	Information not found on website
5.d	Typical problems reported	Information not found on website
5.d.i	Resolution to problems	Information not found on website
5.e	Hours of tech. support and location	Information not found on website
5.f	Calibration requirements	Information not found on website
5.g	Training provided (hours)	Information not found on website

RFI Q.#	Survey Question (abbreviated)	Response
Features and Functions		
6.a	Types of formalize reports	Information not found on website
6.b	Types of on-demand reports	Information not found on website

RFI Q.#	Survey Question (abbreviated)	Response
Performance and Security		
7.a	Average installation time	Information not found on website
7.b	False positive / false negative rates	Information not found on website
7.c	Mean time to failure	Information not found on website
7.d	Percent downtime	Information not found on website
7.e	Data protection mechanisms	Information not found on website
7.f	Database record management	Information not found on website

5.52 Fisher Research Labs M Scope Walk Through

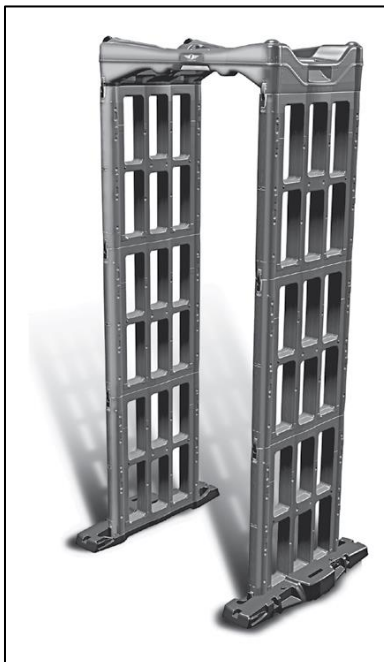


Figure 52. Fisher Research Labs M Scope Walk Through

Person-Borne

RFI Q.#	Survey Question (abbreviated)	Response
Vendor Information		
0	Responded to FRN?	No
1.a	Name	Fisher Research Labs
1.b	Address/phone number	1465-H Henry Brennan El Paso, Texas 79936 (915) 225-0333 1-800-685-5050
1.c	Website	www.fisherlab.com
1.d	Years in business	85 years
1.e	Number and types of customers	hobby, security, and utility customers (international)
1.f	Manufacturing location(s)	Information not found on website

RFI Q.#	Survey Question (abbreviated)	Response
Product Information – Person-borne Contraband Detection		
2.a	Name and model number	MScope Walk Through Metal Detector
2.b	Primary product purpose	Portable walk-through metal detector
2.c	Physical dims (HxWxD, inches)	88.0" H x 43.5" W x 23.8" D (Portable dimensions 37" D x 23" W x 26" H)
2.d	Operational dims (detection area)	30" W x 82" H
2.e	Weight (lbs)	85 lbs
2.f	Portability (e.g., fixed, handheld)	Fixed but portable

2.g	Intended environment (e.g., indoor)	Indoor or Outdoor
2.h	Operation conditions/limitations	Operating Temperature: -20°C to 60°C (-4 to 140 °F) Humidity: 0-95% (non-condensing)
2.i	Ability to detect metal objects	Yes
2.i.i	Types of metals detected	Information not found on website
2.i.ii	Types of metals NOT detected	Information not found on website
2.j	Ability to detect non-metal objects	Information not found on website
2.j.i	Types of non-metals detected	Information not found on website
2.k	Ability to detect in body cavities	Information not found on website
2.k.i	Types of body cavities penetrable	Information not found on website
2.l	Ability to detect other contraband	Information not found on website
2.m	Modes of operation	Information not found on website
2.n	Number of detection areas	3 zones
2.o	Type of detector used	2 types (photo diode and other not listed)
2.p	Minimum object size detectable	Information not found on website
2.p.i	Size on a person	Information not found on website
2.p.ii	Size in a body cavity	Information not found on website
2.q	Total inspection time (sec/person)	Information not found on website
2.r	Penetration depth (inches)	Information not found on website
2.s	Alert/alarm mechanism	LED power and audio/visual alarm status indicators
2.t	Average time to gen. alarm	Information not found on website
2.u	Privacy safeguards/features	Control panel password protected
2.v	Number of rec. operators	Information not found on website
2.w	Tampering safeguards	Password protected access menus
2.x	Sturdiness/fragility of material	Not water resistant
2.y	Ease of storage	The system comes with stacking features, wheels, and transport straps with protective foam cups for single person transport
2.z	Data management	Information not found on website
2.aa	Onboard memory storage	Information not found on website
2.bb	Power requirements	110 Volts or 220 V (AC or DC); 2 Reusable batteries
2.cc	Battery discharge time	40 hours
2.dd	Battery shelf life (months)	24-36 months
2.ee	Battery recharge time (hours)	12-24 hours
2.ff	Battery replacement procedure	Information not found on website
2.gg	Supplemental charger options	Information not found on website
2.hh	Safety compliances	Class B digital device to part 15 of FCC rules
2.ii	Radiation safety standards	Information not found on website
2.jj	Length of warranty (months)	24 months
2.kk	Auxiliary equipment	<ul style="list-style-type: none"> • Zone indication • Key stuck alarm • Self-leveling feature • Adjustable rate alarm, transit and target counters record statistical data • Wheels
2.ll	Manufacturer suggested retail price	Information not found on website
2.mm	Extended maintenance plans	Information not found on website
2.nn	Service contract costs	Information not found on website
2.oo	Other information	<ul style="list-style-type: none"> • Ease of use allows operator to monitor surroundings • 0-99 selectable sensitivity range settings with password protection • Ability to create preset settings • LCD indicates settings, operational menus, and

		diagnostic functions <ul style="list-style-type: none"> • Self-diagnostic • Multi language compatible • Weather protective Package • Can change sensitivity in different zones
--	--	--

RFI Q.#	Survey Question (abbreviated)	Response
Usability/Training		
5.a	Usability validation processes	Information not found on website
5.b	User community data	Information not found on website
5.c	User-group meetings and frequency	Information not found on website
5.d	Typical problems reported	Yes
5.d.i	Resolution to problems	Yes
5.e	Hours of tech. support and location	Information not found on website
5.f	Calibration requirements	System calibrates itself once turned on
5.g	Training provided (hours)	Information not found on website

RFI Q.#	Survey Question (abbreviated)	Response
Features and Functions		
6.a	Types of formalize reports	People counter, metal detection counter, speed violations counter, and access alarm counter
6.b	Types of on-demand reports	Information not found on website

RFI Q.#	Survey Question (abbreviated)	Response
Performance and Security		
7.a	Average installation time	Information not found on website
7.b	False positive / false negative rates	Information not found on website
7.c	Mean time to failure	Information not found on website
7.d	Percent downtime	Information not found on website
7.e	Data protection mechanisms	Information not found on website
7.f	Database record management	Information not found on website

5.53 Garrett CSI Pro

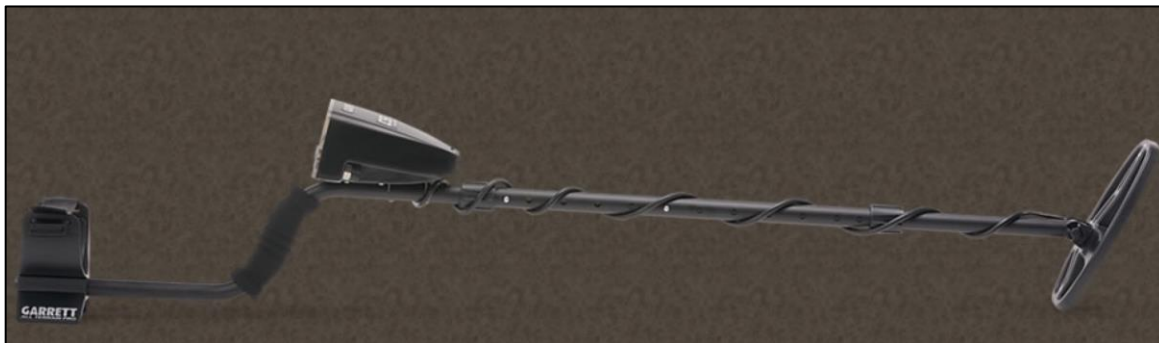


Figure 53. Garrett CSI Pro

Environmental

RFI Q.#	Survey Question (abbreviated)	Response
Vendor Information		
0	Responded to FRN?	No
1.a	Name	Garrett Metal Detectors
1.b	Address/phone number	1881 W. State Street, Garland, TX 75042 1(800) 234-6151
1.c	Website	www.garrett.com
1.d	Years in business	50 years
1.e	Number and types of customers	Olympics, military, international sporting events, international airports, security, law enforcement, hobbyists, etc.
1.f	Manufacturing location(s)	USA

RFI Q.#	Survey Question (abbreviated)	Response
Product Information – Environmental-borne Contraband Detection		
4.a	Name and model number	CSI Pro Model#1140780
4.b	Primary product purpose	All terrain crime scene evidence recovery
4.c	Physical dims (HxWxD, inches)	Adjustable length: 43” – 56” Search coil: 5” x 8”
4.d	Operational dims (detection area)	Search coil: 5” x 8”
4.e	Weight (lbs)	2.8 lbs
4.f	Portability (e.g., fixed, handheld)	Handheld
4.g	Operation conditions/limitations	All terrain, waterproof up to 10 feet
4.h	Ability to detect metal objects	Yes
4.h.i	Types of metals detected	Ferrous and nonferrous
4.h.ii	Types of metals NOT detected	Information not found on website
4.i	Ability to detect non-metal objects	No
4.i.i	Types of non-metals detected	N/A
4.j	Ability to detect other contraband	No
4.k	Modes of operation	Two customizable modes plus electronic pinpointing
4.l	Number of detection areas	Information not found on website

4.m	Type of detector used	Information not found on website
4.n	Minimum object size detectable	Information not found on website
4.o	Maximum object size detectable	Information not found on website
4.p	Alert/alarm mechanism	Audio and visual alarm
4.q	Average time to gen. alarm	Instant
4.r	Number of rec. operators	Only one, the user
4.s	Tampering safeguards	Information not found on website
4.t	Sturdiness/fragility of material	Unit is fully waterproof to 10 feet
4.u	Ease of storage	Can be stored in case
4.v	Data management	Graphic target analyzer identifies target's conductivity
4.w	Onboard memory storage	Information not found on website
4.x	Power requirements	4 AA batteries
4.y	Battery discharge time	5 hours
4.z	Battery shelf life (months)	Information not found on website
4.aa	Battery recharge time (hours)	Information not found on website
4.bb	Battery replacement procedure	Information not found on website
4.cc	Supplemental charger options	Information not found on website
4.dd	Safety compliances	ISO 9001 certified
4.ee	Radiation safety standards	Information not found on website
4.ff	Length of warranty (months)	24 month limited parts/labor
4.gg	Auxiliary equipment	<ul style="list-style-type: none"> High-res iron discrimination allows user to set iron discrimination to one of 40 levels for precise ability to separate targets. Digital target ID increases ability to distinguish one target's conductivity from another. Proportional audio and tone roll audio features allow user to hear changes in a target's response to better judge its conductivity, size, shape, and depth Iron Audio allows the user to hear discriminated iron and to alter the detector's mid-tone signal's range Continuous coin depth indicator Battery condition indicator
4.hh	Manufacturer suggested retail price	\$749.95 - \$979.95 USD
4.ii	Extended maintenance plans	No information provided
4.jj	Service contract costs	No information provided
4.kk	Other information	<ul style="list-style-type: none"> Fast recovery speed on adjacent targets Optional interchangeable search coils 0 – 99 target ID scale

RFI Q.#	Survey Question (abbreviated)	Response
Usability/Training		
5.a	Usability validation processes	Information not found on website
5.b	User community data	Information not found on website
5.c	User-group meetings and frequency	Information not found on website
5.d	Typical problems reported	Information not found on website
5.d.i	Resolution to problems	Information not found on website
5.e	Hours of tech. support and location	Information not found on website
5.f	Calibration requirements	Auto and manual tuning
5.g	Training provided (hours)	Video training and user manual; also optional training academy with certification

RFI Q.#	Survey Question (abbreviated)	Response
Features and Functions		
6.a	Types of formalize reports	No information provided
6.b	Types of on-demand reports	No information provided

RFI Q.#	Survey Question (abbreviated)	Response
Performance and Security		
7.a	Average installation time	No information provided
7.b	False positive / false negative rates	No information provided
7.c	Mean time to failure	No information provided
7.d	Percent downtime	No information provided
7.e	Data protection mechanisms	No information provided
7.f	Database record management	No information provided

5.54 Garrett CSI Pro-Pointer II



Figure 54. Garrett CSI Pro-Pointer II

Person-Borne

RFI Q.#	Survey Question (abbreviated)	Response
Vendor Information		
0	Responded to FRN?	No
1.a	Name	Garrett Metal Detectors
1.b	Address/phone number	1881 W. State Street, Garland, TX 75042 1(800) 234-6151
1.c	Website	www.garrett.com
1.d	Years in business	50 years
1.e	Number and types of customers	Olympics, military, international sporting events, international airports, security, law enforcement, hobbyists, etc.
1.f	Manufacturing location(s)	USA

RFI Q.#	Survey Question (abbreviated)	Response
Product Information – Person-borne Contraband Detection		
2.a	Name and model number	Garrett CSI Pro-Pointer II
2.b	Primary product purpose	Pinpointing metal detector
2.c	Physical dims (HxWxD, inches)	9" x 1.5"
2.d	Operational dims (detection area)	Information not found on website
2.e	Weight (lbs)	7 oz.
2.f	Portability (e.g., fixed, handheld)	Handheld
2.g	Intended environment (e.g., indoor)	Indoor or outdoor
2.h	Operation conditions/limitations	Operating Temperature: -37° C to 70° C (-35° F to 158°F)
2.i	Ability to detect metal objects	Yes

2.i.i	Types of metals detected	Ferrous, non-ferrous, and stainless steel
2.i.ii	Types of metals NOT detected	N/A
2.j	Ability to detect non-metal objects	No
2.j.i	Types of non-metals detected	N/A
2.k	Ability to detect in body cavities	Information not found on website
2.k.i	Types of body cavities penetrable	Information not found on website
2.l	Ability to detect other contraband	No
2.m	Modes of operation	Information not found on website
2.n	Number of detection areas	360° side scan detection area, with pinpointing tip
2.o	Type of detector used	Information not found on website
2.p	Minimum object size detectable	Information not found on website
2.p.i	Size on a person	Information not found on website
2.p.ii	Size in a body cavity	Information not found on website
2.q	Total inspection time (sec/person)	Information not found on website
2.r	Penetration depth (inches)	Information not found on website
2.s	Alert/alarm mechanism	Audio, visual, and vibrating alarm options
2.t	Average time to gen. alarm	Instant
2.u	Privacy safeguards/features	Information not found on website
2.v	Number of rec. operators	One
2.w	Tampering safeguards	Information not found on website
2.x	Sturdiness/fragility of material	Water resistant, meets IEC 60529 IP66 standards.
2.y	Ease of storage	Information not found on website
2.z	Data management	Information not found on website
2.aa	Onboard memory storage	Information not found on website
2.bb	Power requirements	Standard 9 volt battery
2.cc	Battery discharge time	Carbon: 16 hours; Alkaline: 30 hours
2.dd	Battery shelf life (months)	N/A
2.ee	Battery recharge time (hours)	8 hours
2.ff	Battery replacement procedure	No tools required to change standard battery
2.gg	Supplemental charger options	Optional rechargeable kits available
2.hh	Safety compliances	ISO 9001 Certified
2.ii	Radiation safety standards	Information not found on website
2.jj	Length of warranty (months)	24 months, limited Parts/labor
2.kk	Auxiliary equipment	<ul style="list-style-type: none"> • Rechargeable battery kit • Ballistic weave holster • Built in bright LED flashlight • Low battery indicator • Scraping blade to sift through soil • Lanyard attachment clip
2.ll	Manufacturer suggested retail price	\$169.95
2.mm	Extended maintenance plans	Information not found on website
2.nn	Service contract costs	Information not found on website
2.oo	Other information	<ul style="list-style-type: none"> • 360 degree detecting field with pinpointing tip • Built in flashlight for scanning IDs and screening pockets and bags • 12 kHz operating frequency • Static detection, no motion required • Lost pinpointer alarm to help locate when lost • Auto-off feature

RFI Q.#	Survey Question (abbreviated)	Response
Usability/Training		
5.a	Usability validation processes	Information not found on website
5.b	User community data	Information not found on website
5.c	User-group meetings and frequency	Information not found on website
5.d	Typical problems reported	Information not found on website
5.d.i	Resolution to problems	Information not found on website
5.e	Hours of tech. support and location	Information not found on website
5.f	Calibration requirements	Self-calibrating
5.g	Training provided (hours)	Video training and user manual; also optional training academy with certification

RFI Q.#	Survey Question (abbreviated)	Response
Features and Functions		
6.a	Types of formalize reports	Information not found on website
6.b	Types of on-demand reports	Information not found on website

RFI Q.#	Survey Question (abbreviated)	Response
Performance and Security		
7.a	Average installation time	Information not found on website
7.b	False positive / false negative rates	Information not found on website
7.c	Mean time to failure	Information not found on website
7.d	Percent downtime	Information not found on website
7.e	Data protection mechanisms	Information not found on website
7.f	Database record management	Information not found on website

5.55 Garrett PD6500i



Figure 55. Garrett PD6500i

Person-Borne

RFI Q.#	Survey Question (abbreviated)	Response
Vendor Information		
0	Responded to FRN?	No
1.a	Name	Garrett Metal Detectors
1.b	Address/phone number	1881 W. State Street, Garland, TX 75042 1(800) 234-6151
1.c	Website	www.garrett.com
1.d	Years in business	50 years
1.e	Number and types of customers	Olympics, military, international sporting events, international airports, security, law enforcement, hobbyists, etc.
1.f	Manufacturing location(s)	USA

RFI Q.#	Survey Question (abbreviated)	Response
Product Information – Person-borne Contraband Detection		
2.a	Name and model number	Garrett PD6500i
2.b	Primary product purpose	Enhanced pinpoint walk-through metal detector
2.c	Physical dims (HxWxD, inches)	87" H x 35" W x 23" D
2.d	Operational dims (detection area)	80" H x 30" W x 23" D
2.e	Weight (lbs)	165 lbs
2.f	Portability (e.g., fixed, handheld)	Fixed but moveable
2.g	Intended environment (e.g., indoor)	Indoor or outdoor
2.h	Operation conditions/limitations	Operating Temperature: -20° C to 50° C (-4° F to 122°F)

		Storage Temperature: -40° C to 70° C (-40° F to 158°F) Humidity: 0-95% non-condensing
2.i	Ability to detect metal objects	Yes
2.i.i	Types of metals detected	Ferrous and non-ferrous
2.i.ii	Types of metals NOT detected	N/A
2.j	Ability to detect non-metal objects	No
2.j.i	Types of non-metals detected	N/A
2.k	Ability to detect in body cavities	Information not found on website
2.k.i	Types of body cavities penetrable	Information not found on website
2.l	Ability to detect other contraband	No
2.m	Modes of operation	Over 20 standard program settings with 200 distinct sensitivity levels
2.n	Number of detection areas	33 detection zones
2.o	Type of detector used	Digital Signal Processing (DSP) technology
2.p	Minimum object size detectable	Information not found on website
2.p.i	Size on a person	Information not found on website
2.p.ii	Size in a body cavity	Information not found on website
2.q	Total inspection time (sec/person)	Information not found on website
2.r	Penetration depth (inches)	Information not found on website
2.s	Alert/alarm mechanism	Adjustable audio, visual, and silent alarm options. Along with remote alarm and random alarm features.
2.t	Average time to gen. alarm	Instant
2.u	Privacy safeguards/features	Information not found on website
2.v	Number of rec. operators	Information not found on website
2.w	Tampering safeguards	All settings are secured with a key lock and two levels of access codes. Further security is accomplished with a cabinet lock that prevents unauthorized access to physical cables, connectors, and electronics. All electronics are integrated to eliminate wire exposure
2.x	Sturdiness/fragility of material	Meets IP55 standards, IP65 available. Made of scratch and mar-resistant laminate. Detection heads and support use heavy duty aluminum.
2.y	Ease of storage	Optional wheels for portability
2.z	Data management	Information not found on website
2.aa	Onboard memory storage	Information not found on website
2.bb	Power requirements	Fully automatic 100-240 VAC, 50 or 60 Hz, 45 W; no rewiring, switching, or adjustments needed
2.cc	Battery discharge time	10-hour or 30-hour backup battery
2.dd	Battery shelf life (months)	N/A
2.ee	Battery recharge time (hours)	8 hours
2.ff	Battery replacement procedure	Information not found on website
2.gg	Supplemental charger options	Optional rechargeable battery kits available
2.hh	Safety compliances	Meets TSA requirements for U.S. airports, EAC, STAC, AENA, CJIAC, IEC, ICNIRP, and IEEE
2.ii	Radiation safety standards	Information not found on website
2.jj	Length of warranty (months)	24 months, limited Parts/labor
2.kk	Auxiliary equipment	<ul style="list-style-type: none"> Networking ability for remote control, monitoring, data analysis, and group management Pacing lights at the entrance Directional counter with four settings for counting
2.ll	Manufacturer suggested retail price	\$5,495
2.mm	Extended maintenance plans	Information not found on website
2.nn	Service contract costs	Information not found on website

2.00	Other information	<ul style="list-style-type: none"> • 2,300 selectable operating frequencies • Dual detection with transmitter and receivers in each panel • Multi-brand and multi-unit compatible • Advanced analog and digital filtering for interference suppression
------	-------------------	--

RFI Q.#	Survey Question (abbreviated)	Response
Usability/Training		
5.a	Usability validation processes	Information not found on website
5.b	User community data	Information not found on website
5.c	User-group meetings and frequency	Information not found on website
5.d	Typical problems reported	Information not found on website
5.d.i	Resolution to problems	Information not found on website
5.e	Hours of tech. support and location	Information not found on website
5.f	Calibration requirements	Self-diagnostic program
5.g	Training provided (hours)	Video training and user manual; also optional training academy with certification

RFI Q.#	Survey Question (abbreviated)	Response
Features and Functions		
6.a	Types of formalize reports	Directional counter
6.b	Types of on-demand reports	Information not found on website

RFI Q.#	Survey Question (abbreviated)	Response
Performance and Security		
7.a	Average installation time	Information not found on website
7.b	False positive / false negative rates	Information not found on website
7.c	Mean time to failure	Information not found on website
7.d	Percent downtime	Information not found on website
7.e	Data protection mechanisms	Information not found on website
7.f	Database record management	Information not found on website

5.56 Garrett Super Scanner V



Figure 56. Garrett Super Scanner V

Person-Borne

RFI Q.#	Survey Question (abbreviated)	Response
Vendor Information		
0	Responded to FRN?	No
1.a	Name	Garrett Metal Detectors
1.b	Address/phone number	1881 W. State Street, Garland, TX 75042 1(800) 234-6151
1.c	Website	www.garrett.com
1.d	Years in business	50 years
1.e	Number and types of customers	Olympics, military, international sporting events, international airports, security, law enforcement, hobbyists, etc.
1.f	Manufacturing location(s)	USA

RFI Q.#	Survey Question (abbreviated)	Response
Product Information – Person-borne Contraband Detection		
2.a	Name and model number	Garrett Super Scanner V
2.b	Primary product purpose	Maximum sensitivity handheld scanner for high security applications.
2.c	Physical dims (HxWxD, inches)	16.5" H x 3.25" W x 1.625" D
2.d	Operational dims (detection area)	8" scanning surface
2.e	Weight (lbs)	1.1 lbs
2.f	Portability (e.g., fixed, handheld)	Handheld
2.g	Intended environment (e.g., indoor)	Indoor or outdoor
2.h	Operation conditions/limitations	Operating Temperature: -37° C to 70° C (-35° F to 158°F)
2.i	Ability to detect metal objects	Yes
2.i.i	Types of metals detected	Ferrous and nonferrous
2.i.ii	Types of metals NOT detected	N/A
2.j	Ability to detect non-metal objects	No
2.j.i	Types of non-metals detected	N/A
2.k	Ability to detect in body cavities	Information not found on website
2.k.i	Types of body cavities penetrable	Information not found on website

2.l	Ability to detect other contraband	No
2.m	Modes of operation	Momentary push button helps temporarily eliminate detection of nearby ambient metal such as rebar, metal walls, etc.
2.n	Number of detection areas	Information not found on website
2.o	Type of detector used	Information not found on website
2.p	Minimum object size detectable	Detects medium sized pistol 9" distance; large knife from 6"; razor blades and box cutters from 3" distance; foil-wrapped drugs and tiny jewelry from 1"
2.p.i	Size on a person	Information not found on website
2.p.ii	Size in a body cavity	Information not found on website
2.q	Total inspection time (sec/person)	Information not found on website
2.r	Penetration depth (inches)	Information not found on website
2.s	Alert/alarm mechanism	Audible, visual, and vibrating alarm options
2.t	Average time to gen. alarm	Instant
2.u	Privacy safeguards/features	Information not found on website
2.v	Number of rec. operators	One
2.w	Tampering safeguards	Information not found on website
2.x	Sturdiness/fragility of material	Rugged, high-impact ABS case with reinforced coil compartment. Exceeds Mil-Std-810F (drop test) Method 516.5, procedures II and IV.
2.y	Ease of storage	Information not found on website
2.z	Data management	Information not found on website
2.aa	Onboard memory storage	Information not found on website
2.bb	Power requirements	Standard 9 volt battery
2.cc	Battery discharge time	N/A
2.dd	Battery shelf life (months)	N/A
2.ee	Battery recharge time (hours)	N/A
2.ff	Battery replacement procedure	No tools required to change standard battery
2.gg	Supplemental charger options	Optional rechargeable kits available
2.hh	Safety compliances	ISO 9001 Certified Meets U.S. and international regulatory requirements for electromagnetic safety. Extensive research has found no information that would indicate Garrett products have adverse effects on pregnancy, medical devices (pacemakers) or magnetic recording media. However, directives by physicians and medical device manufacturers regarding metal detectors should be followed
2.ii	Radiation safety standards	Information not found on website
2.jj	Length of warranty (months)	24 months, limited Parts/labor
2.kk	Auxiliary equipment	<ul style="list-style-type: none"> • Rechargeable battery kit • Earphones • Belt loop harness and belt holders • Weatherproof rubber handle • Wrist strap
2.ll	Manufacturer suggested retail price	\$199.99
2.mm	Extended maintenance plans	Information not found on website
2.nn	Service contract costs	Information not found on website
2.oo	Other information	<ul style="list-style-type: none"> • Low battery indicator • Originally designed for the Olympic Games in 1984

RFI Q.#	Survey Question (abbreviated)	Response
Usability/Training		
5.a	Usability validation processes	Information not found on website
5.b	User community data	Information not found on website
5.c	User-group meetings and frequency	Information not found on website
5.d	Typical problems reported	Information not found on website
5.d.i	Resolution to problems	Information not found on website
5.e	Hours of tech. support and location	Information not found on website
5.f	Calibration requirements	Self-calibrating
5.g	Training provided (hours)	Video training and user manual; also optional training academy with certification

RFI Q.#	Survey Question (abbreviated)	Response
Features and Functions		
6.a	Types of formalize reports	Information not found on website
6.b	Types of on-demand reports	Information not found on website

RFI Q.#	Survey Question (abbreviated)	Response
Performance and Security		
7.a	Average installation time	Information not found on website
7.b	False positive / false negative rates	Information not found on website
7.c	Mean time to failure	Information not found on website
7.d	Percent downtime	Information not found on website
7.e	Data protection mechanisms	Information not found on website
7.f	Database record management	Information not found on website

5.57 Garrett Super Wand



Figure 57. Garrett Super Wand

Person-Borne

RFI Q.#	Survey Question (abbreviated)	Response
Vendor Information		
0	Responded to FRN?	No
1.a	Name	Garrett Metal Detectors
1.b	Address/phone number	1881 W. State Street, Garland, TX 75042 1(800) 234-6151
1.c	Website	www.garrett.com
1.d	Years in business	50 years
1.e	Number and types of customers	Olympics, military, international sporting events, international airports, security, law enforcement, hobbyists, etc.
1.f	Manufacturing location(s)	USA

RFI Q.#	Survey Question (abbreviated)	Response
Product Information – Person-borne Contraband Detection		
2.a	Name and model number	Garrett SuperWand
2.b	Primary product purpose	Handheld scanner for high security applications.
2.c	Physical dims (HxWxD, inches)	19" x 3.25" x 1.25"
2.d	Operational dims (detection area)	8.75" scanning surface
2.e	Weight (lbs)	1.2 lbs
2.f	Portability (e.g., fixed, handheld)	Handheld
2.g	Intended environment (e.g., indoor)	Indoor or outdoor
2.h	Operation conditions/limitations	Operating Temperature: -37° C to 70° C (-35° F to 158°F)
2.i	Ability to detect metal objects	Yes
2.i.i	Types of metals detected	Ferrous, nonferrous, and stainless steel

2.i.ii	Types of metals NOT detected	N/A
2.j	Ability to detect non-metal objects	No
2.j.i	Types of non-metals detected	N/A
2.k	Ability to detect in body cavities	Information not found on website
2.k.i	Types of body cavities penetrable	Information not found on website
2.l	Ability to detect other contraband	No
2.m	Modes of operation	Silent mode, dual alarm mode
2.n	Number of detection areas	360° side scan detection area, with pinpointing tip
2.o	Type of detector used	Information not found on website
2.p	Minimum object size detectable	Information not found on website
2.p.i	Size on a person	Information not found on website
2.p.ii	Size in a body cavity	Information not found on website
2.q	Total inspection time (sec/person)	Information not found on website
2.r	Penetration depth (inches)	Information not found on website
2.s	Alert/alarm mechanism	Audible, visual, and vibrating alarm options
2.t	Average time to gen. alarm	Instant
2.u	Privacy safeguards/features	Information not found on website
2.v	Number of rec. operators	One
2.w	Tampering safeguards	Information not found on website
2.x	Sturdiness/fragility of material	Case with reinforced coil compartment. Exceeds Mil-Std-810F (drop test) Method 516.5, procedures II and IV.
2.y	Ease of storage	Information not found on website
2.z	Data management	Information not found on website
2.aa	Onboard memory storage	Information not found on website
2.bb	Power requirements	Standard 9 volt battery
2.cc	Battery discharge time	N/A
2.dd	Battery shelf life (months)	N/A
2.ee	Battery recharge time (hours)	N/A
2.ff	Battery replacement procedure	No tools required to change standard battery
2.gg	Supplemental charger options	Optional rechargeable kits available
2.hh	Safety compliances	ISO 9001 Certified Meets U.S. and international regulatory requirements for electromagnetic safety. Extensive research has found no information that would indicate Garrett products have adverse effects on pregnancy, medical devices (pacemakers) or magnetic recording media. However, directives by physicians and medical device manufacturers regarding metal detectors should be followed
2.ii	Radiation safety standards	Information not found on website
2.jj	Length of warranty (months)	24 months, limited Parts/labor
2.kk	Auxiliary equipment	<ul style="list-style-type: none"> • Rechargeable battery kit • Belt holster • Ergonomically designed grip • Low battery indicator
2.ll	Manufacturer suggested retail price	\$229.95
2.mm	Extended maintenance plans	Information not found on website
2.nn	Service contract costs	Information not found on website
2.oo	Other information	<ul style="list-style-type: none"> • 360 degree detecting field with pinpointing tip

RFI Q.#	Survey Question (abbreviated)	Response
Usability/Training		
5.a	Usability validation processes	Information not found on website
5.b	User community data	Information not found on website
5.c	User-group meetings and frequency	Information not found on website
5.d	Typical problems reported	Information not found on website
5.d.i	Resolution to problems	Information not found on website
5.e	Hours of tech. support and location	Information not found on website
5.f	Calibration requirements	Self-calibrating
5.g	Training provided (hours)	Video training and user manual; also optional training academy with certification

RFI Q.#	Survey Question (abbreviated)	Response
Features and Functions		
6.a	Types of formalize reports	Information not found on website
6.b	Types of on-demand reports	Information not found on website

RFI Q.#	Survey Question (abbreviated)	Response
Performance and Security		
7.a	Average installation time	Information not found on website
7.b	False positive / false negative rates	Information not found on website
7.c	Mean time to failure	Information not found on website
7.d	Percent downtime	Information not found on website
7.e	Data protection mechanisms	Information not found on website
7.f	Database record management	Information not found on website

5.58 Garrett THD



Figure 58. Garrett THD

Person-Borne

RFI Q.#	Survey Question (abbreviated)	Response
Vendor Information		
0	Responded to FRN?	No
1.a	Name	Garrett Metal Detectors
1.b	Address/phone number	1881 W. State Street, Garland, TX 75042 1(800) 234-6151
1.c	Website	www.garrett.com
1.d	Years in business	50 years
1.e	Number and types of customers	Olympics, military, international sporting events, international airports, security, law enforcement, hobbyists, etc.
1.f	Manufacturing location(s)	USA

RFI Q.#	Survey Question (abbreviated)	Response
Product Information – Person-borne Contraband Detection		
2.a	Name and model number	Garrett THD
2.b	Primary product purpose	Compact and rugged handheld metal detector
2.c	Physical dims (HxWxD, inches)	8.43" H x 3.25" W x 1.625" D
2.d	Operational dims (detection area)	4" scanning surface
2.e	Weight (lbs)	0.4 lbs
2.f	Portability (e.g., fixed, handheld)	Handheld
2.g	Intended environment (e.g., indoor)	Indoor or outdoor
2.h	Operation conditions/limitations	Operating Temperature: -37° C to 70° C (-35° F to 158°F)
2.i	Ability to detect metal objects	Yes
2.i.i	Types of metals detected	Ferrous, non-ferrous, and stainless steel
2.i.ii	Types of metals NOT detected	N/A
2.j	Ability to detect non-metal objects	No
2.j.i	Types of non-metals detected	N/A
2.k	Ability to detect in body cavities	Information not found on website
2.k.i	Types of body cavities penetrable	Information not found on website

2.l	Ability to detect other contraband	No
2.m	Modes of operation	Silent/vibration mode
2.n	Number of detection areas	360° side scan detection area, with pinpointing tip
2.o	Type of detector used	Information not found on website
2.p	Minimum object size detectable	Information not found on website
2.p.i	Size on a person	Information not found on website
2.p.ii	Size in a body cavity	Information not found on website
2.q	Total inspection time (sec/person)	Information not found on website
2.r	Penetration depth (inches)	Information not found on website
2.s	Alert/alarm mechanism	Visual, and vibrating alarm options
2.t	Average time to gen. alarm	Instant
2.u	Privacy safeguards/features	Information not found on website
2.v	Number of rec. operators	One
2.w	Tampering safeguards	Information not found on website
2.x	Sturdiness/fragility of material	Water resistant, meets IEC 529 IP66 standards. High impact Case with reinforced coil compartment. Exceeds Mil-Std-810F (drop test) Method 516.5, procedures II and IV.
2.y	Ease of storage	Information not found on website
2.z	Data management	Information not found on website
2.aa	Onboard memory storage	Information not found on website
2.bb	Power requirements	Standard 9 volt battery
2.cc	Battery discharge time	N/A
2.dd	Battery shelf life (months)	N/A
2.ee	Battery recharge time (hours)	N/A
2.ff	Battery replacement procedure	No tools required to change standard battery
2.gg	Supplemental charger options	Optional rechargeable kits available
2.hh	Safety compliances	ISO 9001 Certified Meets U.S. and international regulatory requirements for electromagnetic safety. Extensive research has found no information that would indicate Garrett products have adverse effects on pregnancy, medical devices (pacemakers) or magnetic recording media. However, directives by physicians and medical device manufacturers regarding metal detectors should be followed
2.ii	Radiation safety standards	Information not found on website
2.jj	Length of warranty (months)	24 months, limited Parts/labor
2.kk	Auxiliary equipment	<ul style="list-style-type: none"> • Rechargeable battery kit • Ballistic weave holster • Built in bright LED flashlight • Low battery indicator
2.ll	Manufacturer suggested retail price	\$199.95
2.mm	Extended maintenance plans	Information not found on website
2.nn	Service contract costs	Information not found on website
2.oo	Other information	<ul style="list-style-type: none"> • 360 degree detecting field with pinpointing tip • Built in flashlight for scanning IDs and screening pockets and bags

RFI Q.#	Survey Question (abbreviated)	Response
Usability/Training		
5.a	Usability validation processes	Information not found on website

5.b	User community data	Information not found on website
5.c	User-group meetings and frequency	Information not found on website
5.d	Typical problems reported	Information not found on website
5.d.i	Resolution to problems	Information not found on website
5.e	Hours of tech. support and location	Information not found on website
5.f	Calibration requirements	Self-calibrating
5.g	Training provided (hours)	Video training and user manual; also optional training academy with certification

RFI Q.#	Survey Question (abbreviated)	Response
Features and Functions		
6.a	Types of formalize reports	Information not found on website
6.b	Types of on-demand reports	Information not found on website

RFI Q.#	Survey Question (abbreviated)	Response
Performance and Security		
7.a	Average installation time	Information not found on website
7.b	False positive / false negative rates	Information not found on website
7.c	Mean time to failure	Information not found on website
7.d	Percent downtime	Information not found on website
7.e	Data protection mechanisms	Information not found on website
7.f	Database record management	Information not found on website

5.59 Homeland Security Strategies Global Cellular Detector



Figure 59. Homeland Security Strategies Global Cellular Detector

Environmental

RFI Q.#	Survey Question (abbreviated)	Response
Vendor Information		
0	Responded to FRN?	No
1.a	Name	Homeland Securities Strategies GB Ltd
1.b	Address/phone number	75 South Broadway, 4 th Floor White Plains, NY 10601 (914) 304-4333
1.c	Website	www.secintel.com
1.d	Years in business	> 50 years
1.e	Number and types of customers	Government defense agencies, law enforcement, and corporate end users
1.f	Manufacturing location(s)	Information not found on website

RFI Q.#	Survey Question (abbreviated)	Response
Product Information – Environmental-borne Contraband Detection		
4.a	Name and model number	Global Cellular Detector
4.b	Primary product purpose	Measurement system used to verify and locate an active or inactive cellular phone
4.c	Physical dims (HxWxD, inches)	Information not found on website
4.d	Operational dims (detection area)	Information not found on website
4.e	Weight (lbs)	Information not found on website

4.f	Portability (e.g., fixed, handheld)	Handheld
4.g	Operation conditions/limitations	Information not found on website
4.h	Ability to detect metal objects	No
4.h.i	Types of metals detected	Information not found on website
4.h.ii	Types of metals NOT detected	Information not found on website
4.i	Ability to detect non-metal objects	Yes
4.i.i	Types of non-metals detected	Cellular phones
4.j	Ability to detect other contraband	Information not found on website
4.k	Modes of operation	Information not found on website
4.l	Number of detection areas	Information not found on website
4.m	Type of detector used	The system uses a radio frequency measurement system.
4.n	Minimum object size detectable	2 mm (0.08 in) lead behind 75 mm (3.0 in) of steel
4.o	Maximum object size detectable	Information not found on website
4.p	Alert/alarm mechanism	Information not found on website
4.q	Average time to gen. alarm	Information not found on website
4.r	Number of rec. operators	Information not found on website
4.s	Tampering safeguards	Information not found on website
4.t	Sturdiness/fragility of material	Information not found on website
4.u	Ease of storage	Information not found on website
4.v	Data management	Information not found on website
4.w	Onboard memory storage	Information not found on website
4.x	Power requirements	220-240 VAC; 7.2 VDC; 1000mA/h
4.y	Battery discharge time	5 hours
4.z	Battery shelf life (months)	Information not found on website
4.aa	Battery recharge time (hours)	Information not found on website
4.bb	Battery replacement procedure	Information not found on website
4.cc	Supplemental charger options	Information not found on website
4.dd	Safety compliances	Information not found on website
4.ee	Radiation safety standards	Information not found on website
4.ff	Length of warranty (months)	Information not found on website
4.gg	Auxiliary equipment	<ul style="list-style-type: none"> • Includes data in real time • Omni-directional antenna • -60 dBm sensitivity during operation
4.hh	Manufacturer suggested retail price	Information not found on website
4.ii	Extended maintenance plans	Information not found on website
4.jj	Service contract costs	Information not found on website
4.kk	Other information	<ul style="list-style-type: none"> • No startup/ warm up time • Can detect spy phones and GSM transmitters

RFI Q.#	Survey Question (abbreviated)	Response
Usability/Training		
5.a	Usability validation processes	Information not found on website
5.b	User community data	Information not found on website
5.c	User-group meetings and frequency	User seminars and meetings
5.d	Typical problems reported	Information not found on website
5.d.i	Resolution to problems	Information not found on website
5.e	Hours of tech. support and location	Information not found on website
5.f	Calibration requirements	Information not found on website
5.g	Training provided (hours)	Information not found on website

RFI Q.#	Survey Question (abbreviated)	Response
Features and Functions		
6.a	Types of formalize reports	Cellular activity for each frequency is displayed on one graphic user interface
6.b	Types of on-demand reports	Information not found on website

RFI Q.#	Survey Question (abbreviated)	Response
Performance and Security		
7.a	Average installation time	Information not found on website
7.b	False positive / false negative rates	Information not found on website
7.c	Mean time to failure	Information not found on website
7.d	Percent downtime	Information not found on website
7.e	Data protection mechanisms	Information not found on website
7.f	Database record management	Information not found on website

5.60 IDO Security MagShoe 3G/2



Figure 60. IDO Security MagShoe 3G/2

Person-Borne

RFI Q.#	Survey Question (abbreviated)	Response
Vendor Information		
0	Responded to FRN?	No
1.a	Name	IDO Security
1.b	Address/phone number	17 State Street, 22 nd Fl. New York, NY 10004. USA (646) 214-1234
1.c	Website	www.idosecurity.com
1.d	Years in business	Information not found on website
1.e	Number and types of customers	Airports, cruise lines, government agencies, private homes, court rooms, etc.
1.f	Manufacturing location(s)	Information not found on website

RFI Q.#	Survey Question (abbreviated)	Response
Product Information – Person-borne Contraband Detection		
2.a	Name and model number	MagShoe 3G/2
2.b	Primary product purpose	Shoes on weapons metal detection
2.c	Physical dims (HxWxD, inches)	Information not found on website
2.d	Operational dims (detection area)	Detection height of 7.9" from shoe sole
2.e	Weight (lbs)	Information not found on website
2.f	Portability (e.g., fixed, handheld)	Portable
2.g	Intended environment (e.g., indoor)	Information not found on website
2.h	Operation conditions/limitations	Information not found on website

2.i	Ability to detect metal objects	Yes
2.i.i	Types of metals detected	Information not found on website
2.i.ii	Types of metals NOT detected	Information not found on website
2.j	Ability to detect non-metal objects	Information not found on website
2.j.i	Types of non-metals detected	Information not found on website
2.k	Ability to detect in body cavities	Information not found on website
2.k.i	Types of body cavities penetrable	Information not found on website
2.l	Ability to detect other contraband	Information not found on website
2.m	Modes of operation	Information not found on website
2.n	Number of detection areas	Information not found on website
2.o	Type of detector used	Device uses non-ionizing and low-frequency electromagnetic fields.
2.p	Minimum object size detectable	Information not found on website
2.p.i	Size on a person	Information not found on website
2.p.ii	Size in a body cavity	Information not found on website
2.q	Total inspection time (sec/person)	2 sec/person
2.r	Penetration depth (inches)	Information not found on website
2.s	Alert/alarm mechanism	Information not found on website
2.t	Average time to gen. alarm	Information not found on website
2.u	Privacy safeguards/features	Fail-proof operation
2.v	Number of rec. operators	Information not found on website
2.w	Tampering safeguards	Two levels of password-protected user-permissions
2.x	Sturdiness/fragility of material	Information not found on website
2.y	Ease of storage	Information not found on website
2.z	Data management	Information not found on website
2.aa	Onboard memory storage	Yes
2.bb	Power requirements	Information not found on website
2.cc	Battery discharge time	Information not found on website
2.dd	Battery shelf life (months)	Information not found on website
2.ee	Battery recharge time (hours)	Information not found on website
2.ff	Battery replacement procedure	Information not found on website
2.gg	Supplemental charger options	Information not found on website
2.hh	Safety compliances	Information not found on website
2.ii	Radiation safety standards	Certified safe for wearers of pacemakers or pregnant women
2.jj	Length of warranty (months)	Information not found on website
2.kk	Auxiliary equipment	<ul style="list-style-type: none"> • 7.9" detection height • Preconfigured threshold levels according to needs and demands • Battery backup • Magnetic interference resistance for flexible placement • Ability to connect to the remote Network Management & Control system (NMC-3) via ethernet
2.ll	Manufacturer suggested retail price	Information not found on website
2.mm	Extended maintenance plans	Information not found on website
2.nn	Service contract costs	Information not found on website
2.oo	Other information	<ul style="list-style-type: none"> • Can manually change threshold levels • Small footprint • Low maintenance • Discrimination of metal found in shoes

RFI Q.#	Survey Question (abbreviated)	Response
Usability/Training		
5.a	Usability validation processes	Information not found on website
5.b	User community data	Information not found on website
5.c	User-group meetings and frequency	Information not found on website
5.d	Typical problems reported	Information not found on website
5.d.i	Resolution to problems	Information not found on website
5.e	Hours of tech. support and location	Information not found on website
5.f	Calibration requirements	Information not found on website
5.g	Training provided (hours)	No training required

RFI Q.#	Survey Question (abbreviated)	Response
Features and Functions		
6.a	Types of formalize reports	On-board statistic data collection with download options
6.b	Types of on-demand reports	Information not found on website

RFI Q.#	Survey Question (abbreviated)	Response
Performance and Security		
7.a	Average installation time	Information not found on website
7.b	False positive / false negative rates	Low false alarm rate
7.c	Mean time to failure	Information not found on website
7.d	Percent downtime	Information not found on website
7.e	Data protection mechanisms	Information not found on website
7.f	Database record management	Information not found on website

5.61 Iscon Imaging FocusScan



Figure 61. Iscon Imaging FocusScan

Person-Borne

RFI Q.#	Survey Question (abbreviated)	Response
Vendor Information		
0	Responded to FRN?	No
1.a	Name	Iscon Imaging Inc
1.b	Address/phone number	155 New Boston St., Suite P, Woburn, MA 01801 (781) 933-4127
1.c	Website	www.isconimaging.com
1.d	Years in business	Information not found on website
1.e	Number and types of customers	Information not found on website
1.f	Manufacturing location(s)	Information not found on website

RFI Q.#	Survey Question (abbreviated)	Response
Product Information – Person-borne Contraband Detection		
2.a	Name and model number	Iscon FocusScan
2.b	Primary product purpose	Infrared handheld imaging for use in loss prevention, security enhancement, and asset protection
2.c	Physical dims (HxWxD, inches)	10.5" H x 7" W x 14" D
2.d	Operational dims (detection area)	Information not found on website
2.e	Weight (lbs)	4.5 lbs
2.f	Portability (e.g., fixed, handheld)	Handheld
2.g	Intended environment (e.g., indoor)	Information not found on website
2.h	Operation conditions/limitations	Operating Temperature: 0°C to 35°C (32 to 95 °F) Humidity: 0-95% (non-condensing)

2.i	Ability to detect metal objects	Yes
2.i.i	Types of metals detected	Information not found on website
2.i.ii	Types of metals NOT detected	Information not found on website
2.j	Ability to detect non-metal objects	Yes
2.j.i	Types of non-metals detected	Explosives, narcotics, wood, ceramics, tobacco, pharmaceuticals, rubber, clothing
2.k	Ability to detect in body cavities	Information not found on website
2.k.i	Types of body cavities penetrable	Information not found on website
2.l	Ability to detect other contraband	Yes
2.m	Modes of operation	Information not found on website
2.n	Number of detection areas	Information not found on website
2.o	Type of detector used	The system uses thermo-conductive infrared technology.
2.p	Minimum object size detectable	Information not found on website
2.p.i	Size on a person	Information not found on website
2.p.ii	Size in a body cavity	Information not found on website
2.q	Total inspection time (sec/person)	15 sec/person
2.r	Penetration depth (inches)	Information not found on website
2.s	Alert/alarm mechanism	Electronic indicators
2.t	Average time to gen. alarm	Information not found on website
2.u	Privacy safeguards/features	Information not found on website
2.v	Number of rec. operators	Information not found on website
2.w	Tampering safeguards	Information not found on website
2.x	Sturdiness/fragility of material	Information not found on website
2.y	Ease of storage	Information not found on website
2.z	Data management	Records images securely for post-event investigative purposes
2.aa	Onboard memory storage	Information not found on website
2.bb	Power requirements	100-125 VAC/4A; 200-240 VA/2A; 50-60Hz
2.cc	Battery discharge time	Information not found on website
2.dd	Battery shelf life (months)	Information not found on website
2.ee	Battery recharge time (hours)	Information not found on website
2.ff	Battery replacement procedure	Information not found on website
2.gg	Supplemental charger options	Information not found on website
2.hh	Safety compliances	Information not found on website
2.ii	Radiation safety standards	No health issues
2.jj	Length of warranty (months)	12 months
2.kk	Auxiliary equipment	<ul style="list-style-type: none"> • Touch screen controls • Fully automated with one button operations • Embedded metal detector in handheld platform • Point and shoot spot checking
2.ll	Manufacturer suggested retail price	Information not found on website
2.mm	Extended maintenance plans	Information not found on website
2.nn	Service contract costs	Information not found on website
2.oo	Other information	<ul style="list-style-type: none"> • Detects all materials • Non-invasive and eliminates the need for pat-down searches • No consumables • No health issues

RFI Q.#	Survey Question (abbreviated)	Response
Usability/Training		
5.a	Usability validation processes	Information not found on website

5.b	User community data	Information not found on website
5.c	User-group meetings and frequency	Information not found on website
5.d	Typical problems reported	Information not found on website
5.d.i	Resolution to problems	Information not found on website
5.e	Hours of tech. support and location	Information not found on website
5.f	Calibration requirements	Information not found on website
5.g	Training provided (hours)	Information not found on website

RFI Q.#	Survey Question (abbreviated)	Response
Features and Functions		
6.a	Types of formalize reports	Displays an image from an advanced infrared camera on a touch screen
6.b	Types of on-demand reports	Information not found on website

RFI Q.#	Survey Question (abbreviated)	Response
Performance and Security		
7.a	Average installation time	Information not found on website
7.b	False positive / false negative rates	Information not found on website
7.c	Mean time to failure	Information not found on website
7.d	Percent downtime	Information not found on website
7.e	Data protection mechanisms	Information not found on website
7.f	Database record management	Information not found on website

5.62 Iscon Imaging SecureScan



Figure 62. Iscon Imaging SecureScan

Person-Borne

RFI Q.#	Survey Question (abbreviated)	Response
Vendor Information		
0	Responded to FRN?	No
1.a	Name	Iscon Imaging Inc
1.b	Address/phone number	155 New Boston St., Suite P, Woburn, MA 01801 (781) 933-4127
1.c	Website	www.isconimaging.com
1.d	Years in business	Information not found on website
1.e	Number and types of customers	Information not found on website
1.f	Manufacturing location(s)	Information not found on website

RFI Q.#	Survey Question (abbreviated)	Response
Product Information – Person-borne Contraband Detection		
2.a	Name and model number	Iscon SecureScan
2.b	Primary product purpose	High resolution full body scanner that allows users to view objects under clothing without health or privacy concerns
2.c	Physical dims (HxWxD, inches)	84" H x 41" W x 47.5" D
2.d	Operational dims (detection area)	Information not found on website
2.e	Weight (lbs)	750 lbs

2.f	Portability (e.g., fixed, handheld)	Fixed
2.g	Intended environment (e.g., indoor)	Indoor
2.h	Operation conditions/limitations	Operating Temperature: 0°C to 35°C (32 to 95 °F) Humidity: 0-95% (non-condensing)
2.i	Ability to detect metal objects	Yes
2.i.i	Types of metals detected	Information not found on website
2.i.ii	Types of metals NOT detected	Information not found on website
2.j	Ability to detect non-metal objects	Yes
2.j.i	Types of non-metals detected	Explosives, narcotics, wood, ceramics, tobacco, pharmaceuticals, rubber, clothing
2.k	Ability to detect in body cavities	Information not found on website
2.k.i	Types of body cavities penetrable	Information not found on website
2.l	Ability to detect other contraband	Yes
2.m	Modes of operation	Information not found on website
2.n	Number of detection areas	Information not found on website
2.o	Type of detector used	The system uses thermo-conductive infrared technology.
2.p	Minimum object size detectable	Information not found on website
2.p.i	Size on a person	Information not found on website
2.p.ii	Size in a body cavity	Information not found on website
2.q	Total inspection time (sec/person)	15 sec/person
2.r	Penetration depth (inches)	Information not found on website
2.s	Alert/alarm mechanism	Electronic indicators
2.t	Average time to gen. alarm	Information not found on website
2.u	Privacy safeguards/features	Information not found on website
2.v	Number of rec. operators	Information not found on website
2.w	Tampering safeguards	Information not found on website
2.x	Sturdiness/fragility of material	Information not found on website
2.y	Ease of storage	Information not found on website
2.z	Data management	Time and date stamps infrared images for later audit or download
2.aa	Onboard memory storage	Information not found on website
2.bb	Power requirements	200-240 VAC; 30 A; 50-60Hz
2.cc	Battery discharge time	Information not found on website
2.dd	Battery shelf life (months)	Information not found on website
2.ee	Battery recharge time (hours)	Information not found on website
2.ff	Battery replacement procedure	Information not found on website
2.gg	Supplemental charger options	Information not found on website
2.hh	Safety compliances	Information not found on website
2.ii	Radiation safety standards	Information not found on website
2.jj	Length of warranty (months)	12 months
2.kk	Auxiliary equipment	<ul style="list-style-type: none"> • Touch screen controls • Fully automated with one button operations
2.ll	Manufacturer suggested retail price	Information not found on website
2.mm	Extended maintenance plans	Information not found on website
2.nn	Service contract costs	Information not found on website
2.oo	Other information	<ul style="list-style-type: none"> • Detects all materials • Non-invasive and eliminates the need for pat-down searches • No consumables

RFI Q.#	Survey Question (abbreviated)	Response
Usability/Training		
5.a	Usability validation processes	Information not found on website
5.b	User community data	Information not found on website
5.c	User-group meetings and frequency	Information not found on website
5.d	Typical problems reported	Information not found on website
5.d.i	Resolution to problems	Information not found on website
5.e	Hours of tech. support and location	Information not found on website
5.f	Calibration requirements	Information not found on website
5.g	Training provided (hours)	Information not found on website

RFI Q.#	Survey Question (abbreviated)	Response
Features and Functions		
6.a	Types of formalize reports	Displays an image from an advanced infrared camera on a touch screen
6.b	Types of on-demand reports	Information not found on website

RFI Q.#	Survey Question (abbreviated)	Response
Performance and Security		
7.a	Average installation time	Information not found on website
7.b	False positive / false negative rates	Information not found on website
7.c	Mean time to failure	Information not found on website
7.d	Percent downtime	Information not found on website
7.e	Data protection mechanisms	Information not found on website
7.f	Database record management	Information not found on website

5.63 Med-Eng Merlin Contraband Detector



Figure 63. Med-Eng Merlin Contraband Detector

Vehicle-Borne

Environmental

RFI Q.#	Survey Question (abbreviated)	Response
Vendor Information		
0	Responded to FRN?	No
1.a	Name	Med-Eng
1.b	Address/phone number	2400 St. Laurent Boulevard, Ottawa, Ont. K1G 6C4 Canada 1-855-633-3649
1.c	Website	www.med-eng.com
1.d	Years in business	> 30 years
1.e	Number and types of customers	100 countries; law enforcement and military
1.f	Manufacturing location(s)	Information not found on website

RFI Q.#	Survey Question (abbreviated)	Response
Product Information – Vehicle-borne Contraband Detection		
3.a	Name and model number	Merlin Contraband Detector
3.b	Primary product purpose	Lightweight instrument for inspecting contraband targets for hidden materials. Can identify drugs, explosives, weapons, currency, etc.

3.c	Physical dims (HxWxD, inches)	Information not found on website
3.d	Operational dims (detection area)	Information not found on website
3.e	Weight (lbs)	Information not found on website
3.f	Portability (e.g., fixed, handheld)	Handheld
3.g	Operation conditions/limitations	Indoor or outdoor use
3.h	Ability to detect metal objects	Yes
3.i	Ability to detect drugs/alcohol/chems	Yes; narcotics, alcohol, explosives, etc.
3.j	Ability to detect people or animals	Yes; people and animals
3.k	Ability to detect other contraband	The system has the ability to highlight material with varying densities.
3.l	Modes of operation	Information not found on website
3.m	Number of detection areas	Information not found on website
3.n	Type of detector used	It measures the mass density of inspected objects (vehicles, walls, etc.) and indicates a difference in density or thickness.
3.o	Minimum object size detectable	Information not found on website
3.p	Total inspection time (sec/vehicle)	Information not found on website
3.q	Alert/alarm mechanism	Audio and visual alarm status indicators
3.r	Average time to gen. alarm	Instant
3.s	Number of rec. operators	One
3.t	Tampering safeguards	Information not found on website
3.u	Sturdiness/fragility of material	Information not found on website
3.v	Ease of storage	Information not found on website
3.w	Data management	Information not found on website
3.x	Onboard memory storage	Information not found on website
3.y	Power requirements	Information not found on website
3.z	Battery discharge time	Information not found on website
3.aa	Battery shelf life (months)	Information not found on website
3.bb	Battery recharge time (hours)	Information not found on website
3.cc	Battery replacement procedure	Information not found on website
3.dd	Supplemental charger options	Information not found on website
3.ee	Safety compliances	Information not found on website
3.ff	Radiation safety standards	Information not found on website
3.gg	Length of warranty (months)	Information not found on website
3.hh	Auxiliary equipment	<ul style="list-style-type: none"> • Radiation detection function • Remote display/control unit
3.ii	Manufacturer suggested retail price	Information not found on website
3.jj	Extended maintenance plans	Information not found on website
3.kk	Service contract costs	Information not found on website
3.ll	Other information	Extension arms available

RFI Q.#	Survey Question (abbreviated)	Response
Product Information – Environmental-borne Contraband Detection		
4.a	Name and model number	Merlin Contraband Detector
4.b	Primary product purpose	Lightweight instrument for inspecting contraband targets for hidden materials. Can identify drugs, explosives, weapons, currency, etc.
4.c	Physical dims (HxWxD, inches)	Information not found on website
4.d	Operational dims (detection area)	Information not found on website
4.e	Weight (lbs)	Information not found on website
4.f	Portability (e.g., fixed, handheld)	Handheld

4.g	Operation conditions/limitations	Indoor or outdoor use
4.h	Ability to detect metal objects	Yes
4.h.i	Types of metals detected	Information not found on website
4.h.ii	Types of metals NOT detected	Information not found on website
4.i	Ability to detect non-metal objects	Yes
4.i.i	Types of non-metals detected	Narcotics, alcohol, other materials
4.j	Ability to detect other contraband	Yes; radioactive materials
4.k	Modes of operation	Information not found on website
4.l	Number of detection areas	Information not found on website
4.m	Type of detector used	It measures the mass density of inspected objects (vehicles, walls, etc.) and indicates a difference in density or thickness.
4.n	Minimum object size detectable	Information not found on website
4.o	Maximum object size detectable	Information not found on website
4.p	Alert/alarm mechanism	Audio and visual alarm status indicators
4.q	Average time to gen. alarm	Instant
4.r	Number of rec. operators	One
4.s	Tampering safeguards	Information not found on website
4.t	Sturdiness/fragility of material	Information not found on website
4.u	Ease of storage	Information not found on website
4.v	Data management	Information not found on website
4.w	Onboard memory storage	Information not found on website
4.x	Power requirements	Information not found on website
4.y	Battery discharge time	Information not found on website
4.z	Battery shelf life (months)	Information not found on website
4.aa	Battery recharge time (hours)	Information not found on website
4.bb	Battery replacement procedure	Information not found on website
4.cc	Supplemental charger options	Information not found on website
4.dd	Safety compliances	Information not found on website
4.ee	Radiation safety standards	Information not found on website
4.ff	Length of warranty (months)	Information not found on website
4.gg	Auxiliary equipment	<ul style="list-style-type: none"> • Radiation detection function • Remote display/control unit
4.hh	Manufacturer suggested retail price	Information not found on website
4.ii	Extended maintenance plans	Information not found on website
4.jj	Service contract costs	Information not found on website
4.kk	Other information	Extension arms available

RFI Q.#	Survey Question (abbreviated)	Response
Usability/Training		
5.a	Usability validation processes	Information not found on website
5.b	User community data	Information not found on website
5.c	User-group meetings and frequency	Information not found on website
5.d	Typical problems reported	Information not found on website
5.d.i	Resolution to problems	Information not found on website
5.e	Hours of tech. support and location	Information not found on website
5.f	Calibration requirements	Information not found on website
5.g	Training provided (hours)	Information not found on website

RFI Q.#	Survey Question (abbreviated)	Response
Features and Functions		
6.a	Types of formalize reports	LCD digital readout
6.b	Types of on-demand reports	Information not found on website

RFI Q.#	Survey Question (abbreviated)	Response
Performance and Security		
7.a	Average installation time	Information not found on website
7.b	False positive / false negative rates	Information not found on website
7.c	Mean time to failure	Information not found on website
7.d	Percent downtime	Information not found on website
7.e	Data protection mechanisms	Information not found on website
7.f	Database record management	Information not found on website

5.64 Metrasens Cellsense Plus

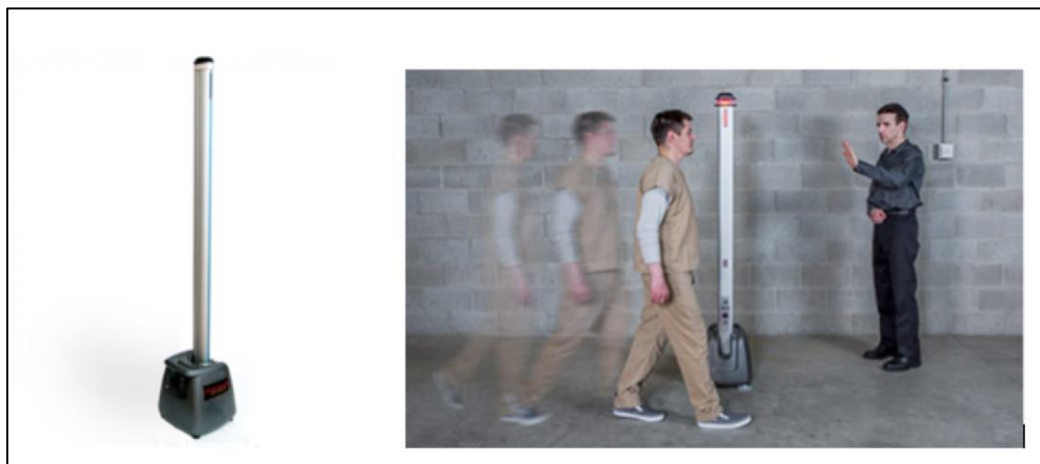


Figure 64. Metrasens Cellsense Plus

Person-Borne

RFI Q.#	Survey Question (abbreviated)	Response
Vendor Information		
0	Responded to FRN?	Yes
1.a	Name	Metrasens Inc
1.b	Address/phone number	2150 Western Court, Suite 360, Lisle, IL 60532 630-541-6509
1.c	Website	www.metrasens.com/security
1.d	Years in business	Five years in the global corrections market, ten years in other markets.
1.e	Number and types of customers	US state agencies: 27 states totaling approx. 400 units US city/local authorities: 173 county/city customers totaling approx. 340 units US FBoP: None at the moment but looking forward to evaluation in Spring 2016 Rest of world: 40 countries totaling approx. 750 units
1.f	Manufacturing location(s)	Manufactured in Malvern, United Kingdom; Refurbishment, Repair, Support and Training conducted from Lisle, IL.

RFI Q.#	Survey Question (abbreviated)	Response
Product Information – Person-borne Contraband Detection		
2.a	Name and model number	Cellsense Plus, model #2029
2.b	Primary product purpose	Designed for the detection of cell phones, weapons and other ferrous contraband on inmates and their belongings.
2.c	Physical dims (HxWxD, inches)	Sensor: 71.7" H x 3.9" W x 2.4" D Base Unit: 14.2" H x 13.4" W x 13.4" D

		Assembled: 73.6" H x 13.4" W x 13.4" D Battery Charger: 4.3" H x 2.8" W x 1.6" D
2.d	Operational dims (detection area)	Assembled: 73.6" H x 13.4" W x 13.4" D
2.e	Weight (lbs)	39.7 lbs
2.f	Portability (e.g., fixed, handheld)	Portable; both Cellsense and Cellsense Plus are hand-transportable by one person and are typically deployed as a free-standing (in the accompanying base) or wall-mounted system. However, they can also be placed flat on a table to screen mail and packages and across chairs to screen mattresses, laundry, etc.
2.g	Intended environment (e.g., indoor)	Indoor and Outdoor
2.h	Operation conditions/limitations	Operating Temperature: -10°C to 50°C (14 to 122 °F) Humidity: 0-95% (non-condensing)
2.i	Ability to detect metal objects	Yes
2.i.i	Types of metals detected	Ferromagnetic
2.i.ii	Types of metals NOT detected	non-ferrous metals (titanium, aluminum, copper, etc.)
2.j	Ability to detect non-metal objects	No
2.j.i	Types of non-metals detected	N/A
2.k	Ability to detect in body cavities	Yes
2.k.i	Types of body cavities penetrable	The entire body (no distinction between on a person or inside a cavity)
2.l	Ability to detect other contraband	Non-metal contraband that features a magnetic signature (cell phone parts)
2.m	Modes of operation	2 modes: detailed search for small objects and walk-by mode
2.n	Number of detection areas	Information not found on website
2.o	Type of detector used	The system uses passive ferromagnetic detection. It works by sensing the movement of ferrous metal objects using magnetic gradiometers.
2.p	Minimum object size detectable	0.0014 cubic inches (staples are typically detected)
2.p.i	Size on a person	0.0014 cubic inches (staples are typically detected)
2.p.ii	Size in a body cavity	0.0014 cubic inches (staples are typically detected) (no distinction between on a person or in a cavity)
2.q	Total inspection time (sec/person)	1.5 seconds/person
2.r	Penetration depth (inches)	Essentially infinite (significantly larger than the largest person)
2.s	Alert/alarm mechanism	Both a visual alert and an optional audible alert. The visual alert features a three light system, where red indicates strong detection, amber indicates detection and green indicates no detection.
2.t	Average time to gen. alarm	Alerts occur in real time. Overall system response is less than 100 milliseconds (0.1 s).
2.u	Privacy safeguards/features	Cellsense does not produce images of people or identify the person being screened in any way. As explained in section 2k, people are "invisible" to the system.
2.v	Number of rec. operators	1-2 operators depending on site-specific protocols
2.w	Tampering safeguards	Cyber security: not networked and has no externally-accessible network port. Unintentional disassembly: is a sealed single unit and cannot be unintentionally disassembled. Jamming: transmits no signal and therefore is not susceptible to jamming. Intentional damage: includes reinforced end caps, rubber grommets to protect the LED display, bull bars to

		protect the control panel and other features designed to withstand physical attack.
2.x	Sturdiness/fragility of material	Thick ribbed aluminum construction for durability; Base provides knock-over protection; Control bars protect against inmate interference; Protective shielding around the beacon provides protection from knock-overs
2.y	Ease of storage	The system comes with a hard-sided carrying case for easy storage when not in use.
2.z	Data management	None
2.aa	Onboard memory storage	None
2.bb	Power requirements	100-240 VAC/50-60 Hz for the battery charger
2.cc	Battery discharge time	12-16 hours
2.dd	Battery shelf life (months)	Batteries are expected to last the lifetime of the product warranty at a minimum. 4 year warranty covers the battery.
2.ee	Battery recharge time (hours)	4 hours for a full charge
2.ff	Battery replacement procedure	Depot replacement in Lisle, IL
2.gg	Supplemental charger options	Replacement/supplemental chargers are available for purchase
2.hh	Safety compliances	<ul style="list-style-type: none"> • BS EN 60529:1992 including Amd A1:1993 and A2:2000. For an ingress protection rating of IP54 (Nominally IP65 for Cellsense Plus, but not yet independently tested.) • FCC CFR47 Part 15 – EMC • IEC61326-1:2005, IEC61000-3-2+A1:2008+A2:2009, IEC6100-3-3:2008 – EMC • 2004/108/EC, 2006/95/EC, 2011/65/EU – CE • Battery charger is fully FCC and CE compliant. • Metrasens maintains an ISO 9001:2008 Quality Management System that is audited by ACS Registrars Ltd. (a UK based ISO 9001:2008 Certifying Agency) for conformance to International Standards Organization requirements.
2.ii	Radiation safety standards	FCC CFR47 Part 15; IEC61326-1:2005, IEC61000-3-2+A1:2008+A2:2009, IEC6100-3-3
2.jj	Length of warranty (months)	48 months
2.kk	Auxiliary equipment	<ul style="list-style-type: none"> • Detector pole with CrossBeam technology • Base with suction feet • Printed Cellsense Plus instruction manual and quick start guide • Battery charger with 3-pin DIN connector • Hard-sided transportation case • Four (4) year warranty • Shipping (CONUS only)
2.ll	Manufacturer suggested retail price	\$12,995
2.mm	Extended maintenance plans	Yes
2.nn	Service contract costs	Yes
2.oo	Other information	<ul style="list-style-type: none"> • Cellsense requires a reset time of 2.1 seconds after detection. • Cellsense Plus is most effective – detects all phones, concealed contraband, even small blades • 2x sensitivity of detection, for the smallest concealed contraband, measured in comparison with the best-

		<p>performing competitive detection system.</p> <ul style="list-style-type: none"> • Enhanced detection zone focused on subjects' most challenging concealment areas • Cuts interference from surrounding activity, 50% fewer unwanted alerts, measured in comparison with best performing competitive detection product. • Cellsense detects all cell phones, on/off, with/without batteries, even mini key fob phones, concealed on or inside the body • Detects weapons, lighters, small blades and other contraband that can be missed by traditional systems • Doesn't alert on items of non-interest like most jewelry, joint implants and stationary metal objects such as cell doors • Most versatile – works in every setting of the correctional facility • Adapts instantly for portable or wall-mounted searches • Works indoors and out • Patented CrossBeam™ technology for fast, simple, secure-area protection • Most immediate – portable and operational by one person in less than 45 seconds • Most rugged – resistant to breakage and weather, backed up by the best warranty in the industry
--	--	---

RFI Q.#	Survey Question (abbreviated)	Response
Usability/Training		
5.a	Usability validation processes	Cellsense was developed under a formal 'Stage Gate' process with a quality control system fully compliant with the ISO6001 standard. Metrasens involved experts from the state correctional departments of Texas (TDCJ) and California (CDCR) in defining the requirements and for testing of prototypes in real environments. Metrasens operates an Improvement Log Notification (ILN) database that formally records any failures, suggestions or other internal/external user feedback. This allows Metrasens to identify any design weaknesses or usability improvements throughout the product's lifecycle.
5.b	User community data	Metrasens maintains close relationships with its customers in order to obtain user data. This is facilitated through the account management process which occurs on a daily basis between Metrasens Account Managers and their customers. Additionally, Metrasens performs a customer satisfaction survey annually. Finally, Metrasens collects information about its products directly from new end users during initial and recurrent training sessions. These sessions are conducted at the customers' facilities about 100 times per year (based on order frequency) and provide an excellent mechanism for collecting information about the products and service.
5.c	User-group meetings and frequency	Information not found on website

5.d	Typical problems reported	All product issues are collected under Metrasens' ILN process (see section 5a). The majority of reported problems are damaged units resulting from improper staff use and/or physical abuse by inmates intending to break the units. Approximately 6% of the install bases, per annum, are deliberately abused to the point of requiring repair. For the last three years, the ILN database reports 2.9% of products have had need for repair for issues that are not the result of improper use or physical abuse. Of these, 93% were component failures. The remainder was unknown or unrecorded causes. Metrasens has designed Cellsense Plus to eliminate the four most commonly-failing components in Cellsense. Those 9 components accounted for approximately 75% of failures. Over the next three years, Metrasens expects, based on this analysis, approximately 0.7% of Cellsense Plus units will require repair as a result of non-abuse component failures.
5.d.i	Resolution to problems	For damage resulting from abuse, the user's units are repaired and returned within 72 hours. The damage caused is recorded in the ILN (see section 5a) to capture the most vulnerable aspects of the product. These feed the requirements for product upgrades. The same process of recording and addressing each issue has been applied to nonabuse product failures for the last five years. The rate of failures resulting from non-abuse continues to decrease despite an install base growing at an average rate of 55% per year.
5.e	Hours of tech. support and location	Metrasens provides telephone support from 8:30 AM to 5:00 PM CST Monday through Friday.
5.f	Calibration requirements	Most immediate – portable and operational by one person in less than 45 seconds
5.g	Training provided (hours)	Metrasens provides on-site initial, recurrent and remedial training. The goal of the training is to provide information about system operation, search strategies and screening methods. Each four-hour training session is comprised of two parts (classroom and actual screening). Training is conducted by a certified Metrasens trainer and a certificate of completion is provided to each participant.

RFI Q.#	Survey Question (abbreviated)	Response
Features and Functions		
6.a	Types of formalize reports	N/A
6.b	Types of on-demand reports	N/A

RFI Q.#	Survey Question (abbreviated)	Response
Performance and Security		
7.a	Average installation time	As it is a portable system, Cellsense requires no installation in the traditional sense. Performed by one staff member, unit set-up takes approximately 15 seconds and, once turned on, "warm-up" time is approximately five seconds.
7.b	False positive / false negative rates	Blind studies have been performed to obtain ROC

		(Receiver Operating Characteristic) curves for the Cellsense products. The full reports are available on request. For cell phones on an inmate divested of metal objects, the detection threshold can be set to achieve 0% false positive (FP) and 0% false negative (FN) as determined by a trial of 50 blind tests. The FP rate is dictated by environmental conditions so magnetically-noisy environments raise the FP rate. This can be mitigated by increasing the detection threshold but this may result in increased FN rate. With non-divested populations in prisons where belt buckles, metal badge clips, metal clothing rivets/buttons are allowed, company measured 8% FP and 0% FN through a similar trial of 50 samples.
7.c	Mean time to failure	The installed base of units has not had a sufficient number of failures to allow Metrasens to clearly establish a distinct MTTF calculation. However, MTTF is calculated to be over five years.
7.d	Percent downtime	Operational availability is 99%
7.e	Data protection mechanisms	Since Cellsense produces and stores no data, there is nothing built into the system to protect internal data
7.f	Database record management	N/A

5.65 OD Security Soter RS



Figure 65. OD Security Soter RS

Person-Borne

RFI Q.#	Survey Question (abbreviated)	Response
Vendor Information		
0	Responded to FRN?	No
1.a	Name	OD Security North America
1.b	Address/phone number	707 Texas Avenue, Suite 215-D, College Station, Texas 77840 (844) 99-SOTER
1.c	Website	www.odsecurityna.com
1.d	Years in business	4 years
1.e	Number and types of customers	Correctional Facilities in 13 states in the USA
1.f	Manufacturing location(s)	Made in the USA

RFI Q.#	Survey Question (abbreviated)	Response
Product Information – Person-borne Contraband Detection		
2.a	Name and model number	OD Security Soter RS
2.b	Primary product purpose	Full body security scanning system
2.c	Physical dims (HxWxD, inches)	26 square meters
2.d	Operational dims (detection area)	Information not found on website
2.e	Weight (lbs)	Information not found on website
2.f	Portability (e.g., fixed, handheld)	Fixed (mounted into the floor)
2.g	Intended environment (e.g., indoor)	Indoor

2.h	Operation conditions/limitations	Information not found on website
2.i	Ability to detect metal objects	Yes
2.i.i	Types of metals detected	Ferrous and non-ferrous
2.i.ii	Types of metals NOT detected	N/A
2.j	Ability to detect non-metal objects	Yes
2.j.i	Types of non-metals detected	Narcotics, explosives, precious stone and diamonds, plastic weapons, electronic and video equipment, etc.
2.k	Ability to detect in body cavities	Yes
2.k.i	Types of body cavities penetrable	Entire body ("natural cavities")
2.l	Ability to detect other contraband	Yes
2.m	Modes of operation	Variable operating modes match detection levels to contraband risk
2.n	Number of detection areas	1344 individual detectors
2.o	Type of detector used	The system uses transmission image technology (x-ray). Use of a very narrow collimated x-ray beam. The exposure is read by a highly sensitive linear multi-element semiconductor detector.
2.p	Minimum object size detectable	Information not found on website
2.p.i	Size on a person	Information not found on website
2.p.ii	Size in a body cavity	Information not found on website
2.q	Total inspection time (sec/person)	10 sec/person
2.r	Penetration depth (inches)	Information not found on website
2.s	Alert/alarm mechanism	Information not found on website
2.t	Average time to gen. alarm	Information not found on website
2.u	Privacy safeguards/features	No privacy issues
2.v	Number of rec. operators	Information not found on website
2.w	Tampering safeguards	Solid frame construction
2.x	Sturdiness/fragility of material	Information not found on website
2.y	Ease of storage	Mounted into floor
2.z	Data management	Information not found on website
2.aa	Onboard memory storage	Information not found on website
2.bb	Power requirements	2 kW, 220 V, 60 Hz, 13 Amps 2.4-3.5 mA x-ray tube current
2.cc	Battery discharge time	Information not found on website
2.dd	Battery shelf life (months)	Information not found on website
2.ee	Battery recharge time (hours)	Information not found on website
2.ff	Battery replacement procedure	Information not found on website
2.gg	Supplemental charger options	Information not found on website
2.hh	Safety compliances	Emission per scan < 2.5 micro Sieverts
2.ii	Radiation safety standards	Operator not exposed to radiation. Fully compliant with all FDA regulations and with ANSI/HSP 43.17-2009
2.jj	Length of warranty (months)	Information not found on website
2.kk	Auxiliary equipment	<ul style="list-style-type: none"> • Touchscreen functionality with user interface similar to tablets and smartphones • Water-cooled x-ray generator • Full high definition monitor (1920 x 1080 pixels)
2.ll	Manufacturer suggested retail price	Information not found on website
2.mm	Extended maintenance plans	Information not found on website
2.nn	Service contract costs	Information not found on website
2.oo	Other information	<ul style="list-style-type: none"> • X-ray tube only active during 8-10 second scanning process • Least invasive image type • Head to toe image

		<ul style="list-style-type: none"> • 1% contrast resolution • Open frame design offers 360 degree observation
--	--	---

RFI Q.#	Survey Question (abbreviated)	Response
Usability/Training		
5.a	Usability validation processes	Information not found on website
5.b	User community data	Information not found on website
5.c	User-group meetings and frequency	Information not found on website
5.d	Typical problems reported	Information not found on website
5.d.i	Resolution to problems	Information not found on website
5.e	Hours of tech. support and location	Information not found on website
5.f	Calibration requirements	Information not found on website
5.g	Training provided (hours)	Training on how to operate takes less than 1 hour Contraband detection training takes 1 day

RFI Q.#	Survey Question (abbreviated)	Response
Features and Functions		
6.a	Types of formalize reports	Information not found on website
6.b	Types of on-demand reports	Information not found on website

RFI Q.#	Survey Question (abbreviated)	Response
Performance and Security		
7.a	Average installation time	Information not found on website
7.b	False positive / false negative rates	Information not found on website
7.c	Mean time to failure	Information not found on website
7.d	Percent downtime	Information not found on website
7.e	Data protection mechanisms	Information not found on website
7.f	Database record management	Information not found on website

5.66 PKI Electronic Intelligence 7110 X-Ray Color Mailscanner



Figure 66. PKI 7110 X-Ray Color Mailscanner

Environmental

RFI Q.#	Survey Question (abbreviated)	Response
Vendor Information		
0	Responded to FRN?	No
1.a	Name	PKI Electronic Intelligence GmbH
1.b	Address/phone number	Germany
1.c	Website	www.pki-electronic.com
1.d	Years in business	40 years
1.e	Number and types of customers	Surveillance specialists; government departments, police, Customs, military, etc.
1.f	Manufacturing location(s)	Information not found on website

RFI Q.#	Survey Question (abbreviated)	Response
Product Information – Environmental-borne Contraband Detection		
4.a	Name and model number	PKI 7110 X-Ray Color Mailscanner
4.b	Primary product purpose	This item is designed for security control of incoming mail.
4.c	Physical dims (HxWxD, inches)	430 mm x 610 mm x 1610 mm (16.9 x 24.0 x 63.4 in)
4.d	Operational dims (detection area)	420 mm x 560 mm x 530 mm (16.5 x 22.0 x 20.9 in)
4.e	Weight (lbs)	150kg (330.7 lbs)

4.f	Portability (e.g., fixed, handheld)	Fixed
4.g	Operation conditions/limitations	Information not found on website
4.h	Ability to detect metal objects	Yes
4.h.i	Types of metals detected	Information not found on website
4.h.ii	Types of metals NOT detected	Information not found on website
4.i	Ability to detect non-metal objects	Yes
4.i.i	Types of non-metals detected	Narcotics, alcohol, other materials
4.j	Ability to detect other contraband	Information not found on website
4.k	Modes of operation	Information not found on website
4.l	Number of detection areas	Information not found on website
4.m	Type of detector used	The system uses a low dose x-ray scanner
4.n	Minimum object size detectable	Information not found on website
4.o	Maximum object size detectable	Information not found on website
4.p	Alert/alarm mechanism	Information not found on website
4.q	Average time to gen. alarm	Information not found on website
4.r	Number of rec. operators	Information not found on website
4.s	Tampering safeguards	If the door is opened prematurely, the x-ray will stop immediately
4.t	Sturdiness/fragility of material	Information not found on website
4.u	Ease of storage	Information not found on website
4.v	Data management	X-ray images are recorded for further analysis
4.w	Onboard memory storage	Yes
4.x	Power requirements	230 VAC; 50Hz, 5A
4.y	Battery discharge time	Information not found on website
4.z	Battery shelf life (months)	Information not found on website
4.aa	Battery recharge time (hours)	Information not found on website
4.bb	Battery replacement procedure	Information not found on website
4.cc	Supplemental charger options	Information not found on website
4.dd	Safety compliances	Information not found on website
4.ee	Radiation safety standards	Information not found on website
4.ff	Length of warranty (months)	Information not found on website
4.gg	Auxiliary equipment	Information not found on website
4.hh	Manufacturer suggested retail price	Information not found on website
4.ii	Extended maintenance plans	Information not found on website
4.jj	Service contract costs	Information not found on website
4.kk	Other information	Information not found on website

RFI Q.#	Survey Question (abbreviated)	Response
Usability/Training		
5.a	Usability validation processes	Information not found on website
5.b	User community data	Information not found on website
5.c	User-group meetings and frequency	Information not found on website
5.d	Typical problems reported	Information not found on website
5.d.i	Resolution to problems	Information not found on website
5.e	Hours of tech. support and location	Information not found on website
5.f	Calibration requirements	Information not found on website
5.g	Training provided (hours)	The training hours depends on the system type. In many cases, trainings have been held in combination with contractual orders from customers.

RFI Q.#	Survey Question (abbreviated)	Response
Features and Functions		
6.a	Types of formalize reports	Information not found on website
6.b	Types of on-demand reports	Information not found on website

RFI Q.#	Survey Question (abbreviated)	Response
Performance and Security		
7.a	Average installation time	Information not found on website
7.b	False positive / false negative rates	Information not found on website
7.c	Mean time to failure	Information not found on website
7.d	Percent downtime	Information not found on website
7.e	Data protection mechanisms	Information not found on website
7.f	Database record management	Information not found on website

5.67 PKI Electronic Intelligence 7200 X-Ray Scanner



Figure 67. PKI 7200 X-Ray Scanner

Vehicle-Borne

RFI Q.#	Survey Question (abbreviated)	Response
Vendor Information		
0	Responded to FRN?	No
1.a	Name	PKI Electronic Intelligence GmbH
1.b	Address/phone number	Germany
1.c	Website	www.pki-electronic.com
1.d	Years in business	40 years
1.e	Number and types of customers	Surveillance specialists; government departments, police, customs, military, etc.
1.f	Manufacturing location(s)	Information not found on website

RFI Q.#	Survey Question (abbreviated)	Response
Product Information – Vehicle-borne Contraband Detection		
3.a	Name and model number	PKI 7200 X-Ray Scanner
3.b	Primary product purpose	Designed for the detection of enclosures located in optically opaque and covered-up spaces, such as motor vehicle seats, fuel tanks, walls, etc.
3.c	Physical dims (HxWxD, inches)	325 mm x 70 mm x 175 mm (12.8 x 2.8 x 6.9 in)
3.d	Operational dims (detection area)	Information not found on website
3.e	Weight (lbs)	4.2 kg (9.3 lbs) with battery
3.f	Portability (e.g., fixed, handheld)	Stationary or portable

3.g	Operation conditions/limitations	Operating Temperature: -20°C to 50°C Dust and splash proof
3.h	Ability to detect metal objects	Yes
3.i	Ability to detect drugs/alcohol/chems	Yes
3.j	Ability to detect people or animals	Yes
3.k	Ability to detect other contraband	The system has the ability to see material in hard to reach places
3.l	Modes of operation	Stationary mode or portable mode
3.m	Number of detection areas	Information not found on website
3.n	Type of detector used	The system uses backscatter x-ray
3.o	Minimum object size detectable	2 cm x 2 cm (0.4 x 0.4 in) with density ranging from 0.5-2 g/cm ³ (0.02-0.07 lb/in ³) located behind a maximum thickness of 10mm (0.4 in) aluminum or 1.0 mm (0.04 in) steel
3.p	Total inspection time (sec/vehicle)	Information not found on website
3.q	Alert/alarm mechanism	Information not found on website
3.r	Average time to gen. alarm	Information not found on website
3.s	Number of rec. operators	Information not found on website
3.t	Tampering safeguards	Information not found on website
3.u	Sturdiness/fragility of material	Dust proof and splash proof
3.v	Ease of storage	Information not found on website
3.w	Data management	Information not found on website
3.x	Onboard memory storage	Information not found on website
3.y	Power requirements	100-240V for stationary use with 27 W consumption; 12 VDC for portable use 18 W consumption
3.z	Battery discharge time	7 hours
3.aa	Battery shelf life (months)	Information not found on website
3.bb	Battery recharge time (hours)	Information not found on website
3.cc	Battery replacement procedure	Information not found on website
3.dd	Supplemental charger options	Information not found on website
3.ee	Safety compliances	Information not found on website
3.ff	Radiation safety standards	Information not found on website
3.gg	Length of warranty (months)	Information not found on website
3.hh	Auxiliary equipment	<ul style="list-style-type: none"> Battery pack Carrying belt
3.ii	Manufacturer suggested retail price	Information not found on website
3.jj	Extended maintenance plans	Information not found on website
3.kk	Service contract costs	Information not found on website
3.ll	Other information	<ul style="list-style-type: none"> 10 second warm-up time Annual effective radiation dose is less than 5 mSv at 1700 operating hours per year

RFI Q.#	Survey Question (abbreviated)	Response
Usability/Training		
5.a	Usability validation processes	Information not found on website
5.b	User community data	Information not found on website
5.c	User-group meetings and frequency	Information not found on website
5.d	Typical problems reported	Information not found on website
5.d.i	Resolution to problems	Information not found on website
5.e	Hours of tech. support and location	Information not found on website
5.f	Calibration requirements	Information not found on website

5.g	Training provided (hours)	The training hours depends on the system type. In many cases, trainings have been held in combination with contractual orders from customers.
-----	---------------------------	---

RFI Q.#	Survey Question (abbreviated)	Response
Features and Functions		
6.a	Types of formalize reports	Information not found on website
6.b	Types of on-demand reports	Information not found on website

RFI Q.#	Survey Question (abbreviated)	Response
Performance and Security		
7.a	Average installation time	Information not found on website
7.b	False positive / false negative rates	Information not found on website
7.c	Mean time to failure	Information not found on website
7.d	Percent downtime	Information not found on website
7.e	Data protection mechanisms	Information not found on website
7.f	Database record management	Information not found on website

5.68 PKI Electronic Intelligence 9220



Figure 68. PKI 9220

Environmental

RFI Q.#	Survey Question (abbreviated)	Response
Vendor Information		
0	Responded to FRN?	No
1.a	Name	PKI Electronic Intelligence GmbH
1.b	Address/phone number	Germany
1.c	Website	www.pki-electronic.com
1.d	Years in business	40 years
1.e	Number and types of customers	Surveillance specialists; Government departments, Police, Customs, Military, etc.
1.f	Manufacturing location(s)	Information not found on website

RFI Q.#	Survey Question (abbreviated)	Response
Product Information – Environmental-borne Contraband Detection		
4.a	Name and model number	PKI 9220 Contraband Detector
4.b	Primary product purpose	This item can positively detect drugs, explosives, weapons, and currency. It is used to inspect tires, car doors, fuel tanks, wall and lined containers, trucks, caravans, packages, etc.
4.c	Physical dims (HxWxD, inches)	Information not found on website

4.d	Operational dims (detection area)	Information not found on website
4.e	Weight (lbs)	Information not found on website
4.f	Portability (e.g., fixed, handheld)	Handheld
4.g	Operation conditions/limitations	Information not found on website
4.h	Ability to detect metal objects	Yes
4.h.i	Types of metals detected	Information not found on website
4.h.ii	Types of metals NOT detected	Information not found on website
4.i	Ability to detect non-metal objects	Yes
4.i.i	Types of non-metals detected	Narcotics, alcohol, other materials
4.j	Ability to detect other contraband	Yes, radioactive materials
4.k	Modes of operation	Information not found on website
4.l	Number of detection areas	Information not found on website
4.m	Type of detector used	It measures the mass density of inspected objects and indicates difference in density.
4.n	Minimum object size detectable	Information not found on website
4.o	Maximum object size detectable	Information not found on website
4.p	Alert/alarm mechanism	Visual and audible alarms
4.q	Average time to gen. alarm	Instant
4.r	Number of rec. operators	One
4.s	Tampering safeguards	Information not found on website
4.t	Sturdiness/fragility of material	Information not found on website
4.u	Ease of storage	Information not found on website
4.v	Data management	Information not found on website
4.w	Onboard memory storage	Information not found on website
4.x	Power requirements	Information not found on website
4.y	Battery discharge time	Information not found on website
4.z	Battery shelf life (months)	Information not found on website
4.aa	Battery recharge time (hours)	Information not found on website
4.bb	Battery replacement procedure	Information not found on website
4.cc	Supplemental charger options	Information not found on website
4.dd	Safety compliances	Information not found on website
4.ee	Radiation safety standards	Information not found on website
4.ff	Length of warranty (months)	Information not found on website
4.gg	Auxiliary equipment	Information not found on website
4.hh	Manufacturer suggested retail price	Information not found on website
4.ii	Extended maintenance plans	Information not found on website
4.jj	Service contract costs	Information not found on website
4.kk	Other information	Information not found on website

RFI Q.#	Survey Question (abbreviated)	Response
Usability/Training		
5.a	Usability validation processes	Information not found on website
5.b	User community data	Information not found on website
5.c	User-group meetings and frequency	Information not found on website
5.d	Typical problems reported	Information not found on website
5.d.i	Resolution to problems	Information not found on website
5.e	Hours of tech. support and location	Information not found on website
5.f	Calibration requirements	Information not found on website
5.g	Training provided (hours)	The training hours depends on the system type. In many cases, trainings have been held in combination with contractual orders from customers.

RFI Q.#	Survey Question (abbreviated)	Response
Features and Functions		
6.a	Types of formalize reports	Information not found on website
6.b	Types of on-demand reports	Information not found on website

RFI Q.#	Survey Question (abbreviated)	Response
Performance and Security		
7.a	Average installation time	Information not found on website
7.b	False positive / false negative rates	Information not found on website
7.c	Mean time to failure	Information not found on website
7.d	Percent downtime	Information not found on website
7.e	Data protection mechanisms	Information not found on website
7.f	Database record management	Information not found on website

5.69 PKI Electronic Intelligence 9555



Figure 69. PKI 9555

Vehicle-Borne

RFI Q.#	Survey Question (abbreviated)	Response
Vendor Information		
0	Responded to FRN?	No
1.a	Name	PKI Electronic Intelligence GmbH
1.b	Address/phone number	Germany
1.c	Website	www.pki-electronic.com
1.d	Years in business	40 years
1.e	Number and types of customers	Surveillance specialists; Government departments, Police, Customs, Military, etc.
1.f	Manufacturing location(s)	Information not found on website

RFI Q.#	Survey Question (abbreviated)	Response
Product Information – Vehicle-borne Contraband Detection		
3.a	Name and model number	PKI 9555 Under Vehicle Video System
3.b	Primary product purpose	Used to investigate vehicles from underneath.
3.c	Physical dims (HxWxD, inches)	480 mm x 480 mm x 90 mm (18.9 x 18.9 x 3.5 in)
3.d	Operational dims (detection area)	Information not found on website
3.e	Weight (lbs)	Information not found on website
3.f	Portability (e.g., fixed, handheld)	Portable and mobile
3.g	Operation conditions/limitations	Information not found on website

3.h	Ability to detect metal objects	Yes, visually
3.i	Ability to detect drugs/alcohol/chems	Yes; visually
3.j	Ability to detect people or animals	Yes; visually
3.k	Ability to detect other contraband	The system has the ability to see material in hard to reach places
3.l	Modes of operation	Information not found on website
3.m	Number of detection areas	Information not found on website
3.n	Type of detector used	The system uses a camera system with lights to view underneath vehicles
3.o	Minimum object size detectable	Information not found on website
3.p	Total inspection time (sec/vehicle)	Information not found on website
3.q	Alert/alarm mechanism	Visual alarms
3.r	Average time to gen. alarm	Real-time viewing of video inspection on notebook
3.s	Number of rec. operators	Information not found on website
3.t	Tampering safeguards	Information not found on website
3.u	Sturdiness/fragility of material	Information not found on website
3.v	Ease of storage	Information not found on website
3.w	Data management	Recording and storage on notebook
3.x	Onboard memory storage	Storage on notebook
3.y	Power requirements	12 VDC, 600 mA consumption
3.z	Battery discharge time	Information not found on website
3.aa	Battery shelf life (months)	Information not found on website
3.bb	Battery recharge time (hours)	Information not found on website
3.cc	Battery replacement procedure	Information not found on website
3.dd	Supplemental charger options	Information not found on website
3.ee	Safety compliances	Information not found on website
3.ff	Radiation safety standards	Information not found on website
3.gg	Length of warranty (months)	Information not found on website
3.hh	Auxiliary equipment	Receiving station laptop
3.ii	Manufacturer suggested retail price	Information not found on website
3.jj	Extended maintenance plans	Information not found on website
3.kk	Service contract costs	Information not found on website
3.ll	Other information	Camera linear CCD 20 MHz pixel speed camera Halogen lights 12 mm lens 120° field of view

RFI Q.#	Survey Question (abbreviated)	Response
Usability/Training		
5.a	Usability validation processes	Information not found on website
5.b	User community data	Information not found on website
5.c	User-group meetings and frequency	Information not found on website
5.d	Typical problems reported	Information not found on website
5.d.i	Resolution to problems	Information not found on website
5.e	Hours of tech. support and location	Information not found on website
5.f	Calibration requirements	Information not found on website
5.g	Training provided (hours)	The training hours depends on the system type. In many cases, trainings have been held in combination with contractual orders from customers.

RFI Q.#	Survey Question (abbreviated)	Response
Features and Functions		
6.a	Types of formalize reports	Information not found on website
6.b	Types of on-demand reports	Information not found on website

RFI Q.#	Survey Question (abbreviated)	Response
Performance and Security		
7.a	Average installation time	Information not found on website
7.b	False positive / false negative rates	Information not found on website
7.c	Mean time to failure	Information not found on website
7.d	Percent downtime	Information not found on website
7.e	Data protection mechanisms	Information not found on website
7.f	Database record management	Information not found on website

5.70 Polimaster PM1401T



Figure 70. Polimaster PM1401T

Vehicle-Borne

Environmental

RFI Q.#	Survey Question (abbreviated)	Response
Vendor Information		
0	Responded to FRN?	No
1.a	Name	Polimaster IP Solutions, LLC
1.b	Address/phone number	44873 Falcon Place Suite 128, Sterling VA 20166 (703) 525-5075
1.c	Website	www.polimaster.com
1.d	Years in business	24 years
1.e	Number and types of customers	More than 75 countries, Customs and border patrol, police, security agencies, military, firemen, nuclear power plants, health care providers, transport and logistics companies
1.f	Manufacturing location(s)	Belarus, Japan, Lithuania, U.S., Austria

RFI Q.#	Survey Question (abbreviated)	Response
Product Information – Vehicle-borne Contraband Detection		
3.a	Name and model number	PM1401T
3.b	Primary product purpose	Small hand-held contraband detector for search of concealed contraband items and hollows behind panels, walls, or any closed spaces.
3.c	Physical dims (HxWxD, inches)	7.25" x 4" x 5"
3.d	Operational dims (detection area)	Information not found on website

3.e	Weight (lbs)	49.4 oz.
3.f	Portability (e.g., fixed, handheld)	Handheld
3.g	Operation conditions/limitations	Operating Temperature: -30°C to 50°C (-22°F to 122°F) Humidity: 0-95% Atmospheric Pressure: 84 – 106.7 kPa
3.h	Ability to detect metal objects	Yes
3.i	Ability to detect drugs/alcohol/chems	Yes
3.j	Ability to detect people or animals	Yes
3.k	Ability to detect other contraband	Yes, can detect radioactive and nuclear materials
3.l	Modes of operation	Communication with PC mode, detection mode, measurement mode, search for changes in substance density mode, self-test mode, calibration mode
3.m	Number of detection areas	Information not found on website
3.n	Type of detector used	The system uses backscattered radiation from a built-in Ba source. The backscattered radiation is detected by a CsI scintillation detector.
3.o	Minimum object size detectable	When scanning with speed no more than 5 cm/s (2.0 in/s), it can detect hidden bars behind 1 mm (.04 in) steel partition or 15 mm (0.6 in) wood partition: Aluminum 30 x 30 x 30 mm (1.2 x 1.2 x 1.2 in) Polyethylene 70 x 70 x 20 mm (2.8 x 2.8 x 0.8 in) Steel 30 x 30 x 10 mm (1.2 x 1.2 x 0.4 in)
3.p	Total inspection time (sec/vehicle)	Information not found on website
3.q	Alert/alarm mechanism	Visual, audible, and vibration alarms
3.r	Average time to gen. alarm	Information not found on website
3.s	Number of rec. operators	Information not found on website
3.t	Tampering safeguards	Password required for use
3.u	Sturdiness/fragility of material	IP54
3.v	Ease of storage	Information not found on website
3.w	Data management	Information not found on website
3.x	Onboard memory storage	Information not found on website
3.y	Power requirements	1 AA battery
3.z	Battery discharge time	1000 hours
3.aa	Battery shelf life (months)	Information not found on website
3.bb	Battery recharge time (hours)	Information not found on website
3.cc	Battery replacement procedure	Information not found on website
3.dd	Supplemental charger options	N/A
3.ee	Safety compliances	ISO 9001:2008 International Standards Organization
3.ff	Radiation safety standards	Information not found on website
3.gg	Length of warranty (months)	18 month warranty
3.hh	Auxiliary equipment	<ul style="list-style-type: none"> • Software • Carrying case
3.ii	Manufacturer suggested retail price	Information not found on website
3.jj	Extended maintenance plans	Information not found on website
3.kk	Service contract costs	Information not found on website
3.ll	Other information	None

RFI Q.#	Survey Question (abbreviated)	Response
Product Information – Environmental-borne Contraband Detection		
4.a	Name and model number	PM1401T
4.b	Primary product purpose	Small hand-held contraband detector for search of

		concealed contraband items and hollows behind panels, walls, or any closed spaces.
4.c	Physical dims (HxWxD, inches)	7.25" H x 4" W x 5" D
4.d	Operational dims (detection area)	Information not found on website
4.e	Weight (lbs)	3.1 lbs
4.f	Portability (e.g., fixed, handheld)	Handheld
4.g	Operation conditions/limitations	Operating Temperature: -30°C to 50°C (-22°F to 122°F) Humidity: 0-95% Atmospheric Pressure: 84 – 106.7 kPa
4.h	Ability to detect metal objects	Yes
4.h.i	Types of metals detected	No information provided
4.h.ii	Types of metals NOT detected	No information provided
4.i	Ability to detect non-metal objects	Yes
4.i.i	Types of non-metals detected	Drugs, alcohol, chemicals, people
4.j	Ability to detect other contraband	Yes, can detect radioactive and nuclear materials
4.k	Modes of operation	Communication with PC mode, detection mode, measurement mode, search for changes in substance density mode, self-test mode, calibration mode
4.l	Number of detection areas	Information not found on website
4.m	Type of detector used	The system uses backscattered radiation from a built-in Ba source. The backscattered radiation is detected by a CsI scintillation detector.
4.n	Minimum object size detectable	When scanning with speed no more than 5 cm/s (2.0 in/s), it can detect hidden bars behind 1 mm (.04 in) steel partition or 15 mm (0.6 in) wood partition: Aluminum 30 x 30 x 30 mm (1.2 x 1.2 x 1.2 in) Polyethylene 70 x 70 x 20 mm (2.8 x 2.8 x 0.8 in) Steel 30 x 30 x 10 mm (1.2 x 1.2 x 0.4 in)
4.o	Maximum object size detectable	Information not found on website
4.p	Alert/alarm mechanism	Information not found on website
4.q	Average time to gen. alarm	Information not found on website
4.r	Number of rec. operators	Information not found on website
4.s	Tampering safeguards	Password required for use
4.t	Sturdiness/fragility of material	IP54
4.u	Ease of storage	Information not found on website
4.v	Data management	Information not found on website
4.w	Onboard memory storage	Information not found on website
4.x	Power requirements	1 AA battery
4.y	Battery discharge time	1000 hours
4.z	Battery shelf life (months)	Information not found on website
4.aa	Battery recharge time (hours)	Information not found on website
4.bb	Battery replacement procedure	Information not found on website
4.cc	Supplemental charger options	N/A
4.dd	Safety compliances	ISO 9001:2008 International Standards Organization
4.ee	Radiation safety standards	Information not found on website
4.ff	Length of warranty (months)	18 months
4.gg	Auxiliary equipment	<ul style="list-style-type: none"> • Software • Carrying Case
4.hh	Manufacturer suggested retail price	Information not found on website
4.ii	Extended maintenance plans	Information not found on website
4.jj	Service contract costs	Information not found on website
4.kk	Other information	None

RFI Q.#	Survey Question (abbreviated)	Response
Usability/Training		
5.a	Usability validation processes	Information not found on website
5.b	User community data	Information not found on website
5.c	User-group meetings and frequency	Information not found on website
5.d	Typical problems reported	LCD may quit working below 10°C. A symbol "HI" appears on the LCD if the upper limit of the nominal count range is exceeded. Mechanical shocks applied to the ratemeter may result in false alarms of the ratemeter. Source moving mechanism does not work or is jammed.
5.d.i	Resolution to problems	An online repair form with response from a Polimaster specialist within 48 hours by phone or email. Mean restoration time is 60 minutes. Problems should be repaired by the manufacturer's service center.
5.e	Hours of tech. support and location	An online repair form with response from a Polimaster specialist within 48 hours by phone or email.
5.f	Calibration requirements	Self-test mode
5.g	Training provided (hours)	Operating manual and safety instructions provided

RFI Q.#	Survey Question (abbreviated)	Response
Features and Functions		
6.a	Types of formalize reports	Software provided to communicate with PC
6.b	Types of on-demand reports	Information not found on website

RFI Q.#	Survey Question (abbreviated)	Response
Performance and Security		
7.a	Average installation time	Information not found on website
7.b	False positive / false negative rates	Information not found on website
7.c	Mean time to failure	50000 openings of the detector shutter
7.d	Percent downtime	Information not found on website
7.e	Data protection mechanisms	Information not found on website
7.f	Database record management	Information not found on website

5.71 Ranger Security BOSS II 5s



Figure 71. Ranger Security BOSS II 5s

Person-Borne

RFI Q.#	Survey Question (abbreviated)	Response
Vendor Information		
0	Responded to FRN?	No
1.a	Name	Ranger Security Detectors, Inc.
1.b	Address/phone number	11900 Montana Ave, El Paso, TX 79936 (915) 590-4441
1.c	Website	www.rsdsecurityscanners.com
1.d	Years in business	50 years
1.e	Number and types of customers	Military, government, and corporate entities
1.f	Manufacturing location(s)	Information not found on website

RFI Q.#	Survey Question (abbreviated)	Response
Product Information – Person-borne Contraband Detection		
2.a	Name and model number	BOSS II 5s
2.b	Primary product purpose	Non-intrusive cavity screening system
2.c	Physical dims (HxWxD, inches)	50" H x 22" W x 51" D
2.d	Operational dims (detection area)	Information not found on website
2.e	Weight (lbs)	210 lbs
2.f	Portability (e.g., fixed, handheld)	Fixed but moveable
2.g	Intended environment (e.g., indoor)	Indoor
2.h	Operation conditions/limitations	Information not found on website
2.i	Ability to detect metal objects	Yes

2.i.i	Types of metals detected	Ferrous and nonferrous
2.i.ii	Types of metals NOT detected	N/A
2.j	Ability to detect non-metal objects	No
2.j.i	Types of non-metals detected	N/A
2.k	Ability to detect in body cavities	Yes
2.k.i	Types of body cavities penetrable	Oral, abdominal, rectal, vaginal, shin, and foot
2.l	Ability to detect other contraband	Information not found on website
2.m	Modes of operation	High/low master sensitivity switch
2.n	Number of detection areas	5 detection zones
2.o	Type of detector used	Information not found on website
2.p	Minimum object size detectable	Information not found on website
2.p.i	Size on a person	Information not found on website
2.p.ii	Size in a body cavity	Information not found on website
2.q	Total inspection time (sec/person)	Information not found on website
2.r	Penetration depth (inches)	Information not found on website
2.s	Alert/alarm mechanism	Audio and visual alarm
2.t	Average time to gen. alarm	5 seconds
2.u	Privacy safeguards/features	Non-invasive contraband screening
2.v	Number of rec. operators	Information not found on website
2.w	Tampering safeguards	Security passwords
2.x	Sturdiness/fragility of material	Information not found on website
2.y	Ease of storage	Built in wheel kit for easy mobility
2.z	Data management	Information not found on website
2.aa	Onboard memory storage	Information not found on website
2.bb	Power requirements	115 – 240 VAC / 47 – 63 Hz
2.cc	Battery discharge time	N/A
2.dd	Battery shelf life (months)	N/A
2.ee	Battery recharge time (hours)	8 hours
2.ff	Battery replacement procedure	N/A
2.gg	Supplemental charger options	N/A
2.hh	Safety compliances	Completely safe for pregnant women, people with pacemakers, or internal defibrillators
2.ii	Radiation safety standards	Information not found on website
2.jj	Length of warranty (months)	24 months
2.kk	Auxiliary equipment	<ul style="list-style-type: none"> • Optional backup battery • Keypad control
2.ll	Manufacturer suggested retail price	\$11,500
2.mm	Extended maintenance plans	Information not found on website
2.nn	Service contract costs	Information not found on website
2.oo	Other information	<ul style="list-style-type: none"> • Made in the USA • More consistent detection than walk-through metal detectors

RFI Q.#	Survey Question (abbreviated)	Response
Usability/Training		
5.a	Usability validation processes	Information not found on website
5.b	User community data	Information not found on website
5.c	User-group meetings and frequency	Information not found on website
5.d	Typical problems reported	Information not found on website
5.d.i	Resolution to problems	Information not found on website
5.e	Hours of tech. support and location	24/7/365 tech support available. Guaranteed resolution to problems in 24 hours

5.f	Calibration requirements	Self-calibration
5.g	Training provided (hours)	Information not found on website

RFI Q.#	Survey Question (abbreviated)	Response
Features and Functions		
6.a	Types of formalize reports	Information not found on website
6.b	Types of on-demand reports	Information not found on website

RFI Q.#	Survey Question (abbreviated)	Response
Performance and Security		
7.a	Average installation time	Information not found on website
7.b	False positive / false negative rates	Information not found on website
7.c	Mean time to failure	Information not found on website
7.d	Percent downtime	Information not found on website
7.e	Data protection mechanisms	Information not found on website
7.f	Database record management	Information not found on website

5.72 Ranger Security BOSS III



Figure 72. Ranger Security BOSS III

Person-Borne

RFI Q.#	Survey Question (abbreviated)	Response
Vendor Information		
0	Responded to FRN?	No
1.a	Name	Ranger Security Detectors, Inc.
1.b	Address/phone number	11900 Montana Ave, El Paso, TX 79936 (915) 590-4441
1.c	Website	www.rsdsecurityscanners.com
1.d	Years in business	50 years
1.e	Number and types of customers	Military, government, and corporate entities
1.f	Manufacturing location(s)	Information not found on website

RFI Q.#	Survey Question (abbreviated)	Response
Product Information – Person-borne Contraband Detection		
2.a	Name and model number	BOSS III
2.b	Primary product purpose	Non-intrusive method of detecting objects concealed in body cavities
2.c	Physical dims (HxWxD, inches)	41" H x 36" W x 22" D
2.d	Operational dims (detection area)	Information not found on website
2.e	Weight (lbs)	138 lbs
2.f	Portability (e.g., fixed, handheld)	Fixed but moveable

2.g	Intended environment (e.g., indoor)	Indoor
2.h	Operation conditions/limitations	Information not found on website
2.i	Ability to detect metal objects	Yes
2.i.i	Types of metals detected	Ferrous and nonferrous
2.i.ii	Types of metals NOT detected	N/A
2.j	Ability to detect non-metal objects	No
2.j.i	Types of non-metals detected	N/A
2.k	Ability to detect in body cavities	Yes
2.k.i	Types of body cavities penetrable	Abdominal, vaginal, anal, and shin
2.l	Ability to detect other contraband	Information not found on website
2.m	Modes of operation	From 1 to 99% sensitivity
2.n	Number of detection areas	3 detection zones
2.o	Type of detector used	Information not found on website
2.p	Minimum object size detectable	Information not found on website
2.p.i	Size on a person	Information not found on website
2.p.ii	Size in a body cavity	Information not found on website
2.q	Total inspection time (sec/person)	Information not found on website
2.r	Penetration depth (inches)	Information not found on website
2.s	Alert/alarm mechanism	Audio and visual alarm
2.t	Average time to gen. alarm	5 seconds
2.u	Privacy safeguards/features	Non-invasive contraband screening
2.v	Number of rec. operators	Information not found on website
2.w	Tampering safeguards	Security passwords
2.x	Sturdiness/fragility of material	Information not found on website
2.y	Ease of storage	Built in wheel kit for easy mobility
2.z	Data management	Information not found on website
2.aa	Onboard memory storage	Information not found on website
2.bb	Power requirements	115 – 240 VAC / 47 – 63 Hz
2.cc	Battery discharge time	N/A
2.dd	Battery shelf life (months)	N/A
2.ee	Battery recharge time (hours)	8 hours
2.ff	Battery replacement procedure	N/A
2.gg	Supplemental charger options	N/A
2.hh	Safety compliances	Completely safe for pregnant women, people with pacemakers, or internal defibrillators
2.ii	Radiation safety standards	Information not found on website
2.jj	Length of warranty (months)	24 months
2.kk	Auxiliary equipment	<ul style="list-style-type: none"> • Optional backup battery • Digital keypad control
2.ll	Manufacturer suggested retail price	\$7,500
2.mm	Extended maintenance plans	Information not found on website
2.nn	Service contract costs	Information not found on website
2.oo	Other information	<ul style="list-style-type: none"> • Made in the USA • More consistent detection than walk-through metal detectors

RFI Q.#	Survey Question (abbreviated)	Response
Usability/Training		
5.a	Usability validation processes	Information not found on website
5.b	User community data	Information not found on website
5.c	User-group meetings and frequency	Information not found on website
5.d	Typical problems reported	Information not found on website

5.d.i	Resolution to problems	Information not found on website
5.e	Hours of tech. support and location	24/7/365 tech support available. Guaranteed resolution to problems in 24 hours
5.f	Calibration requirements	Self-calibration
5.g	Training provided (hours)	Information not found on website

RFI Q.#	Survey Question (abbreviated)	Response
Features and Functions		
6.a	Types of formalize reports	Information not found on website
6.b	Types of on-demand reports	Information not found on website

RFI Q.#	Survey Question (abbreviated)	Response
Performance and Security		
7.a	Average installation time	Information not found on website
7.b	False positive / false negative rates	Information not found on website
7.c	Mean time to failure	Information not found on website
7.d	Percent downtime	Information not found on website
7.e	Data protection mechanisms	Information not found on website
7.f	Database record management	Information not found on website

5.73 Ranger Security IntelliScan 6 Zone



Figure 73. Ranger Security IntelliScan 6 Zone

Person-Borne

RFI Q.#	Survey Question (abbreviated)	Response
Vendor Information		
0	Responded to FRN?	No
1.a	Name	Ranger Security Detectors, Inc.
1.b	Address/phone number	11900 Montana Ave, El Paso, TX 79936 (915) 590-4441
1.c	Website	www.rsdsecurityscanners.com
1.d	Years in business	50 years
1.e	Number and types of customers	Military, Government, and corporate entities
1.f	Manufacturing location(s)	Information not found on website

RFI Q.#	Survey Question (abbreviated)	Response
Product Information – Person-borne Contraband Detection		
2.a	Name and model number	Intelliscan 6 Zone
2.b	Primary product purpose	Six-zone walk through metal detector
2.c	Physical dims (HxWxD, inches)	87.5” H x 35” W x 21.75” D
2.d	Operational dims (detection area)	80.5” H x 30” W x 21.75” D
2.e	Weight (lbs)	181 lbs
2.f	Portability (e.g., fixed, handheld)	Fixed but moveable

2.g	Intended environment (e.g., indoor)	Indoor or outdoor
2.h	Operation conditions/limitations	Operating Temperature: 0° C to 55°C
2.i	Ability to detect metal objects	Yes
2.i.i	Types of metals detected	Ferrous and nonferrous
2.i.ii	Types of metals NOT detected	N/A
2.j	Ability to detect non-metal objects	No
2.j.i	Types of non-metals detected	N/A
2.k	Ability to detect in body cavities	Information not found on website
2.k.i	Types of body cavities penetrable	Information not found on website
2.l	Ability to detect other contraband	Information not found on website
2.m	Modes of operation	“All metal” mode or “Discrimination” mode. Factory presets and programmable modes can target specific types of metal or alloys for enhanced loss prevention
2.n	Number of detection areas	6 horizontal detection zones
2.o	Type of detector used	The system uses continuous wave multiple sensor measurement with a high stability digital signal processor
2.p	Minimum object size detectable	Information not found on website
2.p.i	Size on a person	Information not found on website
2.p.ii	Size in a body cavity	Information not found on website
2.q	Total inspection time (sec/person)	Information not found on website
2.r	Penetration depth (inches)	Information not found on website
2.s	Alert/alarm mechanism	Three audio alarm tones with seven volume settings. Display shows the relative height at which a targeted weapon is carried through.
2.t	Average time to gen. alarm	Information not found on website
2.u	Privacy safeguards/features	Information not found on website
2.v	Number of rec. operators	Information not found on website
2.w	Tampering safeguards	Security passwords
2.x	Sturdiness/fragility of material	Information not found on website
2.y	Ease of storage	Information not found on website
2.z	Data management	Information not found on website
2.aa	Onboard memory storage	Program settings retained in memory when power is shutdown
2.bb	Power requirements	115 – 230 VAC, 50-60 Hz (backup battery optional)
2.cc	Battery discharge time	N/A
2.dd	Battery shelf life (months)	N/A
2.ee	Battery recharge time (hours)	N/A
2.ff	Battery replacement procedure	N/A
2.gg	Supplemental charger options	N/A
2.hh	Safety compliances	Harmless to pacemakers and pregnant women; Certification by FAA for use in U.S. airports and shall meet or exceed all requirements of NILECJ Standard 0601.00 security levels 1-5; Clinically tested and certified by US Medical School and Health and Medical Ministry of the Russian Federation
2.ii	Radiation safety standards	Information not found on website
2.jj	Length of warranty (months)	24 months
2.kk	Auxiliary equipment	<ul style="list-style-type: none"> • Bottom header control access panel • Remote display that mimics the alarm display panel with connection via fiber optic cable
2.ll	Manufacturer suggested retail price	\$3,799
2.mm	Extended maintenance plans	Information not found on website
2.nn	Service contract costs	Information not found on website

2.00	Other information	<ul style="list-style-type: none"> • U.S. patented technology • 16 operating frequencies
------	-------------------	--

RFI Q.#	Survey Question (abbreviated)	Response
Usability/Training		
5.a	Usability validation processes	Information not found on website
5.b	User community data	Information not found on website
5.c	User-group meetings and frequency	Information not found on website
5.d	Typical problems reported	Information not found on website
5.d.i	Resolution to problems	Information not found on website
5.e	Hours of tech. support and location	Information not found on website
5.f	Calibration requirements	Automatic tuning
5.g	Training provided (hours)	Information not found on website

RFI Q.#	Survey Question (abbreviated)	Response
Features and Functions		
6.a	Types of formalize reports	Information not found on website
6.b	Types of on-demand reports	Information not found on website

RFI Q.#	Survey Question (abbreviated)	Response
Performance and Security		
7.a	Average installation time	Information not found on website
7.b	False positive / false negative rates	Information not found on website
7.c	Mean time to failure	Information not found on website
7.d	Percent downtime	Information not found on website
7.e	Data protection mechanisms	Information not found on website
7.f	Database record management	Information not found on website

5.74 Ranger Security IntelliScan 18 Zone



Figure 74. Ranger Security IntelliScan 18 Zone

Person-Borne

RFI Q.#	Survey Question (abbreviated)	Response
Vendor Information		
0	Responded to FRN?	No
1.a	Name	Ranger Security Detectors, Inc.
1.b	Address/phone number	11900 Montana Ave, El Paso, TX 79936 (915) 590-4441
1.c	Website	www.rsdsecurityscanners.com
1.d	Years in business	50 years
1.e	Number and types of customers	Military, government, and corporate entities
1.f	Manufacturing location(s)	Information not found on website

RFI Q.#	Survey Question (abbreviated)	Response
Product Information – Person-borne Contraband Detection		
2.a	Name and model number	IntelliScan 18 Zone
2.b	Primary product purpose	Walk through metal detector
2.c	Physical dims (HxWxD, inches)	87.5" H x 35" W x 21.75" D
2.d	Operational dims (detection area)	80.5" H x 30" W x 21.75" D
2.e	Weight (lbs)	181 lbs
2.f	Portability (e.g., fixed, handheld)	Fixed but moveable
2.g	Intended environment (e.g., indoor)	Indoor or outdoor
2.h	Operation conditions/limitations	Operating Temperature: 0° C to 55°C
2.i	Ability to detect metal objects	Yes
2.i.i	Types of metals detected	Ferrous and nonferrous

2.i.ii	Types of metals NOT detected	N/A
2.j	Ability to detect non-metal objects	No
2.j.i	Types of non-metals detected	N/A
2.k	Ability to detect in body cavities	Information not found on website
2.k.i	Types of body cavities penetrable	Information not found on website
2.l	Ability to detect other contraband	Information not found on website
2.m	Modes of operation	“All metal” mode or “Discrimination” mode. Factory presets and programmable modes can target specific types of metal or alloys for enhanced loss prevention
2.n	Number of detection areas	18 independent detection zones
2.o	Type of detector used	The system uses continuous wave multiple sensor measurement with a high stability digital signal processor
2.p	Minimum object size detectable	Information not found on website
2.p.i	Size on a person	Information not found on website
2.p.ii	Size in a body cavity	Information not found on website
2.q	Total inspection time (sec/person)	Information not found on website
2.r	Penetration depth (inches)	Information not found on website
2.s	Alert/alarm mechanism	Three audio alarm tones with seven volume settings. Display shows the relative height and location at which a targeted weapon is carried through.
2.t	Average time to gen. alarm	Information not found on website
2.u	Privacy safeguards/features	Information not found on website
2.v	Number of rec. operators	Information not found on website
2.w	Tampering safeguards	Security passwords and key lock on/off switch
2.x	Sturdiness/fragility of material	Information not found on website
2.y	Ease of storage	Information not found on website
2.z	Data management	Information not found on website
2.aa	Onboard memory storage	Program settings retained in memory when power is shutdown
2.bb	Power requirements	100 – 250 VAC, 47-63 Hz (backup battery optional)
2.cc	Battery discharge time	N/A
2.dd	Battery shelf life (months)	N/A
2.ee	Battery recharge time (hours)	N/A
2.ff	Battery replacement procedure	N/A
2.gg	Supplemental charger options	N/A
2.hh	Safety compliances	Harmless to medical equipment and pregnant women; Certification by FAA for use in U.S. airports and shall meet or exceed all requirements of NILECJ Standard 0601.00 security levels 1-5; Clinically tested and certified by US Medical School and Health and Medical Ministry of the Russian Federation
2.ii	Radiation safety standards	Information not found on website
2.jj	Length of warranty (months)	24 months
2.kk	Auxiliary equipment	<ul style="list-style-type: none"> • Bottom header control access panel • Remote display that mimics the alarm display panel with connection via fiber optic cable • Floor mounting boots • 180° view angle panel LEDs • Interference rejection circuit • LED status display
2.ll	Manufacturer suggested retail price	\$4,499
2.mm	Extended maintenance plans	Information not found on website
2.nn	Service contract costs	Information not found on website

2.00	Other information	<ul style="list-style-type: none"> • U.S. patented technology • 16 operating frequencies • Transmitter and receivers on both side panels to scan both sides of person being scanned • AC outlet on both top and bottom of panels
------	-------------------	--

RFI Q.#	Survey Question (abbreviated)	Response
Usability/Training		
5.a	Usability validation processes	Information not found on website
5.b	User community data	Information not found on website
5.c	User-group meetings and frequency	Information not found on website
5.d	Typical problems reported	Information not found on website
5.d.i	Resolution to problems	Information not found on website
5.e	Hours of tech. support and location	Information not found on website
5.f	Calibration requirements	Automatic tuning
5.g	Training provided (hours)	Information not found on website

RFI Q.#	Survey Question (abbreviated)	Response
Features and Functions		
6.a	Types of formalize reports	Information not found on website
6.b	Types of on-demand reports	Information not found on website

RFI Q.#	Survey Question (abbreviated)	Response
Performance and Security		
7.a	Average installation time	Information not found on website
7.b	False positive / false negative rates	Information not found on website
7.c	Mean time to failure	Information not found on website
7.d	Percent downtime	Information not found on website
7.e	Data protection mechanisms	Information not found on website
7.f	Database record management	Information not found on website

5.75 Ranger Security IntelliScan 33 Zone



Figure 75. Ranger Security IntelliScan 33 Zone

Person-Borne

RFI Q.#	Survey Question (abbreviated)	Response
Vendor Information		
0	Responded to FRN?	No
1.a	Name	Ranger Security Detectors, Inc.
1.b	Address/phone number	11900 Montana Ave, El Paso, TX 79936 (915) 590-4441
1.c	Website	www.rsdsecurityscanners.com
1.d	Years in business	50 years
1.e	Number and types of customers	Military, Government, and corporate entities
1.f	Manufacturing location(s)	Information not found on website

RFI Q.#	Survey Question (abbreviated)	Response
Product Information – Person-borne Contraband Detection		
2.a	Name and model number	IntelliScan 33 Zone
2.b	Primary product purpose	Walk through metal detector
2.c	Physical dims (HxWxD, inches)	87.5" H x 35" W x 21.75" D
2.d	Operational dims (detection area)	80.5" H x 30" W x 21.75" D
2.e	Weight (lbs)	181 lbs
2.f	Portability (e.g., fixed, handheld)	Fixed but moveable
2.g	Intended environment (e.g., indoor)	Indoor or outdoor
2.h	Operation conditions/limitations	Operating Temperature: 0° C to 55°C

2.i	Ability to detect metal objects	Yes
2.i.i	Types of metals detected	Ferrous and nonferrous
2.i.ii	Types of metals NOT detected	N/A
2.j	Ability to detect non-metal objects	No
2.j.i	Types of non-metals detected	N/A
2.k	Ability to detect in body cavities	Information not found on website
2.k.i	Types of body cavities penetrable	Information not found on website
2.l	Ability to detect other contraband	Information not found on website
2.m	Modes of operation	“All metal” mode or “Discrimination” mode. Factory presets and programmable modes can target specific types of metal or alloys for enhanced loss prevention
2.n	Number of detection areas	33 independent detection zones
2.o	Type of detector used	The system uses continuous wave multiple sensor measurement with a high stability digital signal processor
2.p	Minimum object size detectable	Information not found on website
2.p.i	Size on a person	Information not found on website
2.p.ii	Size in a body cavity	Information not found on website
2.q	Total inspection time (sec/person)	Information not found on website
2.r	Penetration depth (inches)	Information not found on website
2.s	Alert/alarm mechanism	Three audio alarm tones with seven volume settings. Display shows the relative height and location at which a targeted weapon is carried through.
2.t	Average time to gen. alarm	Information not found on website
2.u	Privacy safeguards/features	Information not found on website
2.v	Number of rec. operators	Information not found on website
2.w	Tampering safeguards	Security passwords and key lock on/off switch
2.x	Sturdiness/fragility of material	Information not found on website
2.y	Ease of storage	Information not found on website
2.z	Data management	Information not found on website
2.aa	Onboard memory storage	Program settings retained in memory when power is shutdown
2.bb	Power requirements	115 – 230 VAC, 50-60 Hz (backup battery optional)
2.cc	Battery discharge time	N/A
2.dd	Battery shelf life (months)	N/A
2.ee	Battery recharge time (hours)	N/A
2.ff	Battery replacement procedure	N/A
2.gg	Supplemental charger options	N/A
2.hh	Safety compliances	Harmless to medical equipment and pregnant women; Certification by FAA for use in U.S. airports and shall meet or exceed all requirements of NILECJ Standard 0601.00 security levels 1-5; Clinically tested and certified by US Medical School and Health and Medical Ministry of the Russian Federation
2.ii	Radiation safety standards	Information not found on website
2.jj	Length of warranty (months)	24 months
2.kk	Auxiliary equipment	<ul style="list-style-type: none"> • Bottom header control access panel • Remote display that mimics the alarm display panel with connection via fiber optic cable • Floor mounting boots • 180° view angle panel LEDs • Interference rejection circuit • LED status display
2.ll	Manufacturer suggested retail price	\$5,299

2.mm	Extended maintenance plans	Information not found on website
2.nn	Service contract costs	Information not found on website
2.oo	Other information	<ul style="list-style-type: none"> • U.S. patented technology • 16 operating frequencies • Transmitter and receivers on both side panels to scan both sides of person being scanned • AC outlet on both top and bottom of panels

RFI Q.#	Survey Question (abbreviated)	Response
Usability/Training		
5.a	Usability validation processes	Information not found on website
5.b	User community data	Information not found on website
5.c	User-group meetings and frequency	Information not found on website
5.d	Typical problems reported	Information not found on website
5.d.i	Resolution to problems	Information not found on website
5.e	Hours of tech. support and location	Information not found on website
5.f	Calibration requirements	Automatic tuning
5.g	Training provided (hours)	Information not found on website

RFI Q.#	Survey Question (abbreviated)	Response
Features and Functions		
6.a	Types of formalize reports	Information not found on website
6.b	Types of on-demand reports	Information not found on website

RFI Q.#	Survey Question (abbreviated)	Response
Performance and Security		
7.a	Average installation time	Information not found on website
7.b	False positive / false negative rates	Information not found on website
7.c	Mean time to failure	Information not found on website
7.d	Percent downtime	Information not found on website
7.e	Data protection mechanisms	Information not found on website
7.f	Database record management	Information not found on website

5.76 Ranger Security M1000



Figure 76. Ranger Security M1000

Person-Borne

RFI Q.#	Survey Question (abbreviated)	Response
Vendor Information		
0	Responded to FRN?	No
1.a	Name	Ranger Security Detectors, Inc.
1.b	Address/phone number	11900 Montana Ave, El Paso, TX 79936 (915) 590-4441
1.c	Website	www.rsdscurityscanners.com
1.d	Years in business	50 years
1.e	Number and types of customers	Military, Government, and corporate entities
1.f	Manufacturing location(s)	Information not found on website

RFI Q.#	Survey Question (abbreviated)	Response
Product Information – Person-borne Contraband Detection		
2.a	Name and model number	M1000
2.b	Primary product purpose	Handheld body scanner
2.c	Physical dims (HxWxD, inches)	3.125" H x 1.375" W x 16" D
2.d	Operational dims (detection area)	Information not found on website
2.e	Weight (lbs)	0.88 lbs
2.f	Portability (e.g., fixed, handheld)	Handheld
2.g	Intended environment (e.g., indoor)	Indoor or outdoor
2.h	Operation conditions/limitations	Information not found on website
2.i	Ability to detect metal objects	Yes
2.i.i	Types of metals detected	Ferrous and nonferrous
2.i.ii	Types of metals NOT detected	N/A
2.j	Ability to detect non-metal objects	No

2.j.i	Types of non-metals detected	N/A
2.k	Ability to detect in body cavities	Information not found on website
2.k.i	Types of body cavities penetrable	Information not found on website
2.l	Ability to detect other contraband	Information not found on website
2.m	Modes of operation	De-sense button
2.n	Number of detection areas	Information not found on website
2.o	Type of detector used	Information not found on website
2.p	Minimum object size detectable	Detects medium pistol at 12", small pistol at 9", razor blade at 3", hat pin at 1", and a 486 processor at 4".
2.p.i	Size on a person	Information not found on website
2.p.ii	Size in a body cavity	Information not found on website
2.q	Total inspection time (sec/person)	3" to 4" per second
2.r	Penetration depth (inches)	Information not found on website
2.s	Alert/alarm mechanism	Peizo electric beeper and LED visual indicator
2.t	Average time to gen. alarm	Real time
2.u	Privacy safeguards/features	Information not found on website
2.v	Number of rec. operators	One
2.w	Tampering safeguards	Sensitivity adjustments are made through a screw driver access hole in the casing to reduce potential for tampering
2.x	Sturdiness/fragility of material	Cased in high impact ABS plastic
2.y	Ease of storage	Information not found on website
2.z	Data management	Information not found on website
2.aa	Onboard memory storage	Information not found on website
2.bb	Power requirements	9 volt battery
2.cc	Battery discharge time	80 hours
2.dd	Battery shelf life (months)	N/A
2.ee	Battery recharge time (hours)	N/A
2.ff	Battery replacement procedure	N/A
2.gg	Supplemental charger options	N/A
2.hh	Safety compliances	Information not found on website
2.ii	Radiation safety standards	Information not found on website
2.jj	Length of warranty (months)	24 months
2.kk	Auxiliary equipment	<ul style="list-style-type: none"> • Hand held leather holster • Earphone jack • Wrist strap
2.ll	Manufacturer suggested retail price	\$150
2.mm	Extended maintenance plans	Information not found on website
2.nn	Service contract costs	Information not found on website
2.oo	Other information	Comfort grip

RFI Q.#	Survey Question (abbreviated)	Response
Usability/Training		
5.a	Usability validation processes	Information not found on website
5.b	User community data	Information not found on website
5.c	User-group meetings and frequency	Information not found on website
5.d	Typical problems reported	Information not found on website
5.d.i	Resolution to problems	Information not found on website
5.e	Hours of tech. support and location	Information not found on website
5.f	Calibration requirements	Automatic tuning
5.g	Training provided (hours)	Information not found on website

RFI Q.#	Survey Question (abbreviated)	Response
Features and Functions		
6.a	Types of formalize reports	Information not found on website
6.b	Types of on-demand reports	Information not found on website

RFI Q.#	Survey Question (abbreviated)	Response
Performance and Security		
7.a	Average installation time	Information not found on website
7.b	False positive / false negative rates	Information not found on website
7.c	Mean time to failure	Information not found on website
7.d	Percent downtime	Information not found on website
7.e	Data protection mechanisms	Information not found on website
7.f	Database record management	Information not found on website

5.77 Ranger Security M1500



Figure 77. Ranger Security M1500

Person-Borne

RFI Q.#	Survey Question (abbreviated)	Response
Vendor Information		
0	Responded to FRN?	No
1.a	Name	Ranger Security Detectors, Inc.
1.b	Address/phone number	11900 Montana Ave, El Paso, TX 79936 (915) 590-4441
1.c	Website	www.rsdsecurityscanners.com
1.d	Years in business	50 years
1.e	Number and types of customers	Military, Government, and corporate entities
1.f	Manufacturing location(s)	Information not found on website

RFI Q.#	Survey Question (abbreviated)	Response
Product Information – Person-borne Contraband Detection		
2.a	Name and model number	M1500
2.b	Primary product purpose	Handheld body scanner
2.c	Physical dims (HxWxD, inches)	3.125" H x 1.375" W x 16" D
2.d	Operational dims (detection area)	Information not found on website
2.e	Weight (lbs)	0.875 lbs
2.f	Portability (e.g., fixed, handheld)	Handheld
2.g	Intended environment (e.g., indoor)	Indoor or outdoor
2.h	Operation conditions/limitations	Information not found on website
2.i	Ability to detect metal objects	Yes
2.i.i	Types of metals detected	Ferrous and nonferrous
2.i.ii	Types of metals NOT detected	N/A

2.j	Ability to detect non-metal objects	No
2.j.i	Types of non-metals detected	N/A
2.k	Ability to detect in body cavities	Information not found on website
2.k.i	Types of body cavities penetrable	Information not found on website
2.l	Ability to detect other contraband	Information not found on website
2.m	Modes of operation	De-sense button
2.n	Number of detection areas	Information not found on website
2.o	Type of detector used	Information not found on website
2.p	Minimum object size detectable	Detects medium pistol at 12", small pistol at 9", razor blade at 3", hat pin at 1", and a 486 processor at 4".
2.p.i	Size on a person	Information not found on website
2.p.ii	Size in a body cavity	Information not found on website
2.q	Total inspection time (sec/person)	3" to 4" per second
2.r	Penetration depth (inches)	Information not found on website
2.s	Alert/alarm mechanism	Vibration, peizo electric beeper and LED visual indicator
2.t	Average time to gen. alarm	Real time
2.u	Privacy safeguards/features	Information not found on website
2.v	Number of rec. operators	One
2.w	Tampering safeguards	Sensitivity adjustments are made through a screw driver access hole in the casing to reduce potential for tampering
2.x	Sturdiness/fragility of material	Cased in high impact ABS plastic
2.y	Ease of storage	Information not found on website
2.z	Data management	Information not found on website
2.aa	Onboard memory storage	Information not found on website
2.bb	Power requirements	9 volt battery
2.cc	Battery discharge time	80 hours
2.dd	Battery shelf life (months)	N/A
2.ee	Battery recharge time (hours)	N/A
2.ff	Battery replacement procedure	N/A
2.gg	Supplemental charger options	N/A
2.hh	Safety compliances	Information not found on website
2.ii	Radiation safety standards	Information not found on website
2.jj	Length of warranty (months)	24 months
2.kk	Auxiliary equipment	<ul style="list-style-type: none"> • Hand held leather holster • Earphone jack • Wrist strap
2.ll	Manufacturer suggested retail price	\$170
2.mm	Extended maintenance plans	Information not found on website
2.nn	Service contract costs	Information not found on website
2.oo	Other information	Comfort grip

RFI Q.#	Survey Question (abbreviated)	Response
Usability/Training		
5.a	Usability validation processes	Information not found on website
5.b	User community data	Information not found on website
5.c	User-group meetings and frequency	Information not found on website
5.d	Typical problems reported	Information not found on website
5.d.i	Resolution to problems	Information not found on website
5.e	Hours of tech. support and location	Information not found on website
5.f	Calibration requirements	Automatic tuning
5.g	Training provided (hours)	Information not found on website

RFI Q.#	Survey Question (abbreviated)	Response
Features and Functions		
6.a	Types of formalize reports	Information not found on website
6.b	Types of on-demand reports	Information not found on website

RFI Q.#	Survey Question (abbreviated)	Response
Performance and Security		
7.a	Average installation time	Information not found on website
7.b	False positive / false negative rates	Information not found on website
7.c	Mean time to failure	Information not found on website
7.d	Percent downtime	Information not found on website
7.e	Data protection mechanisms	Information not found on website
7.f	Database record management	Information not found on website

5.78 Ranger Security MediScan



Figure 78. Ranger Security MediScan

Person-Borne

RFI Q.#	Survey Question (abbreviated)	Response
Vendor Information		
0	Responded to FRN?	No
1.a	Name	Ranger Security Detectors, Inc.
1.b	Address/phone number	11900 Montana Ave, El Paso, TX 79936 (915) 590-4441
1.c	Website	www.rsdsecurityscanners.com
1.d	Years in business	50 years
1.e	Number and types of customers	Military, Government, and corporate entities
1.f	Manufacturing location(s)	Information not found on website

RFI Q.#	Survey Question (abbreviated)	Response
Product Information – Environmental-borne Contraband Detection		
4.a	Name and model number	MediScan Metal Contraband Detector
4.b	Primary product purpose	Fast, reliable, and inexpensive way to scan laundry, trash bags, and parcels for prohibited or stolen items.
4.c	Physical dims (HxWxD, inches)	Height: 34.5” Diameter: 30.5”
4.d	Operational dims (detection area)	Height: 34.5” Diameter: 30.5”
4.e	Weight (lbs)	50 lbs
4.f	Portability (e.g., fixed, handheld)	Portable
4.g	Operation conditions/limitations	Information not found on website

4.h	Ability to detect metal objects	Yes
4.h.i	Types of metals detected	Ferrous and nonferrous
4.h.ii	Types of metals NOT detected	N/A
4.i	Ability to detect non-metal objects	No
4.i.i	Types of non-metals detected	N/A
4.j	Ability to detect other contraband	No
4.k	Modes of operation	All metal mode and ferrous metal only discrimination mode
4.l	Number of detection areas	One
4.m	Type of detector used	Information not found on website
4.n	Minimum object size detectable	Information not found on website
4.o	Maximum object size detectable	Information not found on website
4.p	Alert/alarm mechanism	Audio and visual alarm
4.q	Average time to gen. alarm	Information not found on website
4.r	Number of rec. operators	Information not found on website
4.s	Tampering safeguards	Information not found on website
4.t	Sturdiness/fragility of material	Information not found on website
4.u	Ease of storage	Information not found on website
4.v	Data management	Information not found on website
4.w	Onboard memory storage	Information not found on website
4.x	Power requirements	110/220 VAC
4.y	Battery discharge time	N/A
4.z	Battery shelf life (months)	N/A
4.aa	Battery recharge time (hours)	N/A
4.bb	Battery replacement procedure	N/A
4.cc	Supplemental charger options	Information not found on website
4.dd	Safety compliances	Information not found on website
4.ee	Radiation safety standards	Information not found on website
4.ff	Length of warranty (months)	24 month warranty
4.gg	Auxiliary equipment	Electronic control
4.hh	Manufacturer suggested retail price	\$3,900.00 USD
4.ii	Extended maintenance plans	Information not found on website
4.jj	Service contract costs	Information not found on website
4.kk	Other information	None

RFI Q.#	Survey Question (abbreviated)	Response
Usability/Training		
5.a	Usability validation processes	Information not found on website
5.b	User community data	Information not found on website
5.c	User-group meetings and frequency	Information not found on website
5.d	Typical problems reported	Information not found on website
5.d.i	Resolution to problems	Information not found on website
5.e	Hours of tech. support and location	24/7/365 tech support available.
5.f	Calibration requirements	Self-calibration
5.g	Training provided (hours)	Information not found on website

RFI Q.#	Survey Question (abbreviated)	Response
Features and Functions		
6.a	Types of formalize reports	Information not found on website
6.b	Types of on-demand reports	Information not found on website

RFI Q.#	Survey Question (abbreviated)	Response
Performance and Security		
7.a	Average installation time	Information not found on website
7.b	False positive / false negative rates	Information not found on website
7.c	Mean time to failure	Information not found on website
7.d	Percent downtime	Information not found on website
7.e	Data protection mechanisms	Information not found on website
7.f	Database record management	Information not found on website

5.79 Rapiscan Metor 6M



Figure 79. Rapiscan Metor 6M

Person-Borne

RFI Q.#	Survey Question (abbreviated)	Response
Vendor Information		
0	Responded to FRN?	No
1.a	Name	Rapiscan Systems
1.b	Address/phone number	2805 Columbia Street, Torrance, CA 90503 (310) 978-1457
1.c	Website	www.rapiscansystems.com
1.d	Years in business	22 years
1.e	Number and types of customers	NATO, the European Union, Manchester Airport Group, UK Customs, Hong Kong International Airport, US Department of Homeland Security, US DoD, etc
1.f	Manufacturing location(s)	Finland, India, Malaysia, Singapore, Mexico, United Kingdom, and the US

RFI Q.#	Survey Question (abbreviated)	Response
Product Information – Person-borne Contraband Detection		
2.a	Name and model number	Rapiscan Metor 6M
2.b	Primary product purpose	Walk-through metal detector primarily used for weapons detection.
2.c	Physical dims (HxWxD, inches)	88.2" H x 35.4" W x 27.6" D

2.d	Operational dims (detection area)	29.9" W x 80.7" H
2.e	Weight (lbs)	146 lbs
2.f	Portability (e.g., fixed, handheld)	Fixed
2.g	Intended environment (e.g., indoor)	Indoor or sheltered outdoor
2.h	Operation conditions/limitations	Operating Temperature: -20°C to 70°C (-4 to 158 °F) Humidity: 0-95% (non-condensing)
2.i	Ability to detect metal objects	Yes
2.i.i	Types of metals detected	Ferrous and Non-ferrous
2.i.ii	Types of metals NOT detected	Information not found on website
2.j	Ability to detect non-metal objects	No
2.j.i	Types of non-metals detected	N/A
2.k	Ability to detect in body cavities	Information not found on website
2.k.i	Types of body cavities penetrable	Information not found on website
2.l	Ability to detect other contraband	Information not found on website
2.m	Modes of operation	10 operating frequencies; 14 different pre-programmed detection programs (general purpose, international security, and material selective programs); 9 overlapping adjustable detection zones
2.n	Number of detection areas	9 overlapping adjustable detection zones; 20 individual vertical light segments, which light up separately to indicate the position of the detected zones
2.o	Type of detector used	Information not found on website
2.p	Minimum object size detectable	Information not found on website
2.p.i	Size on a person	Information not found on website
2.p.ii	Size in a body cavity	Information not found on website
2.q	Total inspection time (sec/person)	50 persons/minute (scan per person depends on individual's walking speed)
2.r	Penetration depth (inches)	Information not found on website
2.s	Alert/alarm mechanism	Both acoustic and visual alarm indicators. Audible Alarm has 9 settings with minimum volume setting, 6 tones and adjustable alarm on time. Visual alarm is indicated in display unit and zone display. Alarm can be silenced or as loud as 90 dBA
2.t	Average time to gen. alarm	Information not found on website
2.u	Privacy safeguards/features	Multiple password protected user levels (up to 99 users)
2.v	Number of rec. operators	Information not found on website
2.w	Tampering safeguards	All connections are inside the locked crosspiece. The unit is equipped with a "Power Guard" that prevents tampering with the power source and "Calibration guard" that prevents tampering with the calibration parameter values– there are audible and visual alarms when the main power is lost.
2.x	Sturdiness/fragility of material	Protection class IP 55; Coil panels finished in laminate with plastic zone display profiles. Panels are also equipped with boots that protect the panels against floor washing liquids. The boots can be attached to the floor. The crosspiece is durable aluminum
2.y	Ease of storage	Information not found on website
2.z	Data management	Connectable to MeteorNet3 Pro Web security or other monitoring through ETHERNET.
2.aa	Onboard memory storage	Non-volatiles memory is used to store all of the parameters regardless of power connection
2.bb	Power requirements	Mains: 90-264V AC/50-60Hz Battery: 12V DC

		Consumption: 50W (AC), 40W (DC) Fuse: TIA 5x20 mm (0.2 x 0.8 in) Power cord length: 2.5 m (8.2 ft).
2.cc	Battery discharge time	8 hours
2.dd	Battery shelf life (months)	Information not found on website
2.ee	Battery recharge time (hours)	Information not found on website
2.ff	Battery replacement procedure	Information not found on website
2.gg	Supplemental charger options	Information not found on website
2.hh	Safety compliances	<p>ADA Compliant; Safe for wearers of heart pacemakers, pregnant women and magnetic recording materials.</p> <ul style="list-style-type: none"> • European Electromagnetic Compatibility (EMC) Directive 2004/108/EC • EMC Standard – IEC/EN 61000-6-3:2006/2007 (Emission) • EMC Standard – IEC/EN 61000-6-1:2005/2007 (Immunity) • European Low Voltage Directive 2006/95/EC • Safety Standard - EN 60950-1 (Electrical Safety) • Federal Communications Commission Class B Standards for noise emission from electrical equipment
2.ii	Radiation safety standards	<ul style="list-style-type: none"> • 1999/519/EC - European Union Council recommendation on the limitation of exposure of the general public to electromagnetic fields (0 Hz to 300 GHz) • 2004/40/EC – European Union Parliament and Council Directive on the minimum health and safety requirements regarding the exposure of workers to the risks arising from physical agents (electromagnetic fields) • ICNIRP 1998 – Guidelines for limiting exposure to time-varying electric, magnetic and electromagnetic fields up to 300 GHz • IEEE Std C95.6 (2002) – IEEE standard for Safety Levels with Respect to Human Exposure to Electromagnetic Fields, 0 to 3 khz. • IEEE Std C95.1 (2005) – IEEE Standard for Safety Levels with Respect to Human Exposure to Radio Frequency Electromagnetic Fields, 3 kHz to 300 GHz. • ACGIH-0302 (2002) (Occupational) – The American Conference of Governmental Industrial Hygienists guidelines to occupational exposures only.
2.jj	Length of warranty (months)	24 months
2.kk	Auxiliary equipment	<ul style="list-style-type: none"> • Battery backup • Traffic counter • Random alarm function • Alphanumeric display, standby button, status LEDs, keypad, and audible indicator • Zone display • Noise measurements
2.ll	Manufacturer suggested retail price	Information not found on website
2.mm	Extended maintenance plans	Information not found on website

2.nn	Service contract costs	Information not found on website
2.oo	Other information	<ul style="list-style-type: none"> • Object speed response • Ready state violation • 2 configurable digital input or output configurations • Interference immunity • Automatic sensitivity adjustment from 0 – 200% • Automated frequency search • Detector will erase, alter, or damage magnetic storage media including credit cards, floppy disks, tapes, and IC's. • Auto floor sensitivity adjustments

RFI Q.#	Survey Question (abbreviated)	Response
Usability/Training		
5.a	Usability validation processes	Information not found on website
5.b	User community data	Information not found on website
5.c	User-group meetings and frequency	Information not found on website
5.d	Typical problems reported	Information not found on website
5.d.i	Resolution to problems	Information not found on website
5.e	Hours of tech. support and location	Information not found on website
5.f	Calibration requirements	Automatic or manually set
5.g	Training provided (hours)	Information not found on website

RFI Q.#	Survey Question (abbreviated)	Response
Features and Functions		
6.a	Types of formalize reports	Traffic counter with options, number of alarms
6.b	Types of on-demand reports	Traffic counter, number of alarms

RFI Q.#	Survey Question (abbreviated)	Response
Performance and Security		
7.a	Average installation time	5-10 minutes
7.b	False positive / false negative rates	Information not found on website
7.c	Mean time to failure	Information not found on website
7.d	Percent downtime	Continuous active
7.e	Data protection mechanisms	Will not lose data if power is disconnected
7.f	Database record management	Connectable to MetorNet3 Pro Web security or other monitoring through ETHERNET.

5.80 Rapiscan Meteor 6S



Figure 80. Rapiscan Meteor 6S

Person-Borne

RFI Q.#	Survey Question (abbreviated)	Response
Vendor Information		
0	Responded to FRN?	No
1.a	Name	Rapiscan Systems
1.b	Address/phone number	2805 Columbia Street, Torrance, CA 90503 (310) 978-1457
1.c	Website	www.rapiscansystems.com
1.d	Years in business	22 years
1.e	Number and types of customers	NATO, the European Union, Manchester Airport Group, UK Customs, Hong Kong International Airport, US Department of Homeland Security, US DoD, etc
1.f	Manufacturing location(s)	Finland, India, Malaysia, Singapore, Mexico, United Kingdom, and the US

RFI Q.#	Survey Question (abbreviated)	Response
Product Information – Person-borne Contraband Detection		
2.a	Name and model number	Rapiscan Meteor 6S
2.b	Primary product purpose	High sensitivity walk-through metal detector designed specifically for detecting small metal items.
2.c	Physical dims (HxWxD, inches)	88" H x 33" W x 28" D
2.d	Operational dims (detection area)	28" W x 81" H
2.e	Weight (lbs)	139 lbs

2.f	Portability (e.g., fixed, handheld)	Fixed
2.g	Intended environment (e.g., indoor)	Indoor or sheltered outdoor
2.h	Operation conditions/limitations	Operating Temperature: -20°C to 60°C (-4 to 140 °F) Humidity: 0-95% (non-condensing)
2.i	Ability to detect metal objects	Yes
2.i.i	Types of metals detected	Ferrous and Non-ferrous
2.i.ii	Types of metals NOT detected	Information not found on website
2.j	Ability to detect non-metal objects	No
2.j.i	Types of non-metals detected	N/A
2.k	Ability to detect in body cavities	Yes
2.k.i	Types of body cavities penetrable	Information not found on website
2.l	Ability to detect other contraband	Information not found on website
2.m	Modes of operation	10 operating frequencies; multiple pre-programmed detection
2.n	Number of detection areas	20 individual vertical light segments, which light up separately to indicate the position of the detected zones
2.o	Type of detector used	Information not found on website
2.p	Minimum object size detectable	Information not found on website
2.p.i	Size on a person	Information not found on website
2.p.ii	Size in a body cavity	Information not found on website
2.q	Total inspection time (sec/person)	Information not found on website
2.r	Penetration depth (inches)	Information not found on website
2.s	Alert/alarm mechanism	Audible/visible alarm. Alphanumeric display and Zone Display. Relay contact for remote alarm (SPDT)
2.t	Average time to gen. alarm	Information not found on website
2.u	Privacy safeguards/features	Multiple password protected user levels (up to 99 users)
2.v	Number of rec. operators	Information not found on website
2.w	Tampering safeguards	The unit is equipped with a "Power Guard" that prevents tampering with the power source and "Calibration guard" that prevents tampering with the calibration parameter values— there are audible and visual alarms when the main power is lost. Fully configurable user levels allow for control over access and changing settings
2.x	Sturdiness/fragility of material	Protection class IP 55
2.y	Ease of storage	Dollys for easy relocations of the unit
2.z	Data management	Connectable to MeteorNet3 Pro Web security or other monitoring through ETHERNET.
2.aa	Onboard memory storage	Information not found on website
2.bb	Power requirements	Mains: 90-264V AC/50-60Hz Battery: 12V DC Consumption: 30W (AC), 25W (DC)
2.cc	Battery discharge time	8 hours
2.dd	Battery shelf life (months)	Information not found on website
2.ee	Battery recharge time (hours)	Information not found on website
2.ff	Battery replacement procedure	Information not found on website
2.gg	Supplemental charger options	Information not found on website
2.hh	Safety compliances	Safe for wearers of heart pacemakers, pregnant women and magnetic recording materials. Rapiscan Systems products have been certified by the U.S. Department of Homeland Security for Support Anti-Terrorism by Fostering Effective Technologies (SAFETY) Act of 2002, which provides important benefits to organizations that deploy security

		technology. For additional information visit www.safetyact.gov . The Meteor 6S complies with NIJ Standard 0601.02, fulfilling the requirements for corrections and law enforcement agencies. Conforms to the applicable international standards for electrical safety and EMC.
2.ii	Radiation safety standards	Information not found on website
2.jj	Length of warranty (months)	Information not found on website
2.kk	Auxiliary equipment	<ul style="list-style-type: none"> • Battery backup • Traffic counter • Random alarm function • Zone display
2.ll	Manufacturer suggested retail price	Information not found on website
2.mm	Extended maintenance plans	Information not found on website
2.nn	Service contract costs	Information not found on website
2.oo	Other information	<ul style="list-style-type: none"> • Object speed response • Ready state violation • Interference immunity • Automatic sensitivity adjustment from 0 – 200% • Automated frequency search • Auto floor sensitivity adjustments

RFI Q.#	Survey Question (abbreviated)	Response
Usability/Training		
5.a	Usability validation processes	Information not found on website
5.b	User community data	Information not found on website
5.c	User-group meetings and frequency	Information not found on website
5.d	Typical problems reported	Information not found on website
5.d.i	Resolution to problems	Information not found on website
5.e	Hours of tech. support and location	Information not found on website
5.f	Calibration requirements	Information not found on website
5.g	Training provided (hours)	Information not found on website

RFI Q.#	Survey Question (abbreviated)	Response
Features and Functions		
6.a	Types of formalize reports	Intelligent traffic counter, number of alarms
6.b	Types of on-demand reports	Intelligent traffic counter, number of alarms

RFI Q.#	Survey Question (abbreviated)	Response
Performance and Security		
7.a	Average installation time	Information not found on website
7.b	False positive / false negative rates	Information not found on website
7.c	Mean time to failure	Information not found on website
7.d	Percent downtime	Information not found on website
7.e	Data protection mechanisms	Will not lose data if power is disconnected
7.f	Database record management	Connectable to MeteorNet3 Pro Web security or other monitoring through ETHERNET.

5.81 Rapiscan Metor 6WP



Figure 81. Rapiscan Metor 6WP

Person-Borne

RFI Q.#	Survey Question (abbreviated)	Response
Vendor Information		
0	Responded to FRN?	No
1.a	Name	Rapiscan Systems
1.b	Address/phone number	2805 Columbia Street, Torrance, CA 90503 (310) 978-1457
1.c	Website	www.rapiscansystems.com
1.d	Years in business	22 years
1.e	Number and types of customers	NATO, the European Union, Manchester Airport Group, UK Customs, Hong Kong International Airport, US Department of Homeland Security, US DoD, etc
1.f	Manufacturing location(s)	Finland, India, Malaysia, Singapore, Mexico, United Kingdom, and the US

RFI Q.#	Survey Question (abbreviated)	Response
Product Information – Person-borne Contraband Detection		
2.a	Name and model number	Rapiscan Metor 6WP
2.b	Primary product purpose	High sensitivity walk-through metal detector designed specifically for large crowds.
2.c	Physical dims (HxWxD, inches)	88" H x 40" W x 35" D
2.d	Operational dims (detection area)	30" W x 81" H
2.e	Weight (lbs)	90 lbs

2.f	Portability (e.g., fixed, handheld)	Fixed but easily moveable
2.g	Intended environment (e.g., indoor)	Indoor or outdoor
2.h	Operation conditions/limitations	Operating Temperature: -20°C to 60°C (-4 to 140 °F) Humidity: 0-100% (non-condensing)
2.i	Ability to detect metal objects	Yes
2.i.i	Types of metals detected	Ferrous and Non-ferrous
2.i.ii	Types of metals NOT detected	Information not found on website
2.j	Ability to detect non-metal objects	No
2.j.i	Types of non-metals detected	N/A
2.k	Ability to detect in body cavities	Information not found on website
2.k.i	Types of body cavities penetrable	Information not found on website
2.l	Ability to detect other contraband	Information not found on website
2.m	Modes of operation	Several operating frequencies; multiple pre-programmed detection
2.n	Number of detection areas	Information not found on website
2.o	Type of detector used	Information not found on website
2.p	Minimum object size detectable	Information not found on website
2.p.i	Size on a person	Information not found on website
2.p.ii	Size in a body cavity	Information not found on website
2.q	Total inspection time (sec/person)	Information not found on website
2.r	Penetration depth (inches)	Information not found on website
2.s	Alert/alarm mechanism	Adjustable audible/visible alarm. 2 x 20 character alphanumeric display and zone display. Alarm relay contact
2.t	Average time to gen. alarm	Information not found on website
2.u	Privacy safeguards/features	Information not found on website
2.v	Number of rec. operators	Information not found on website
2.w	Tampering safeguards	The unit is equipped with a "Power Guard" that prevents tampering with the power source and "Calibration guard" that prevents tampering with the calibration parameter values– there are audible and visual alarms when the main power is lost. Fully configurable user levels allow for control over access and changing settings. Unit's cables and connectors are locked inside the crosspiece
2.x	Sturdiness/fragility of material	Protection class IP 65 – fully weatherproof
2.y	Ease of storage	Carry case to transport in or can transport it fully assembled. No tool assembly
2.z	Data management	Connectable to MeteorNet3 Pro Web security or other monitoring through ETHERNET.
2.aa	Onboard memory storage	Yes
2.bb	Power requirements	Mains: 90-264VAC /50-60Hz Battery: 12V DC Consumption: 40W (AC), 30W (DC)
2.cc	Battery discharge time	8 hours
2.dd	Battery shelf life (months)	Information not found on website
2.ee	Battery recharge time (hours)	Information not found on website
2.ff	Battery replacement procedure	Information not found on website
2.gg	Supplemental charger options	Information not found on website
2.hh	Safety compliances	Has been tested against and complies with applicable magnetic field standards concerning human exposure and pacemaker safety. Rapiscan Systems products have been certified by the U.S. Department of Homeland Security for Support Anti-Terrorism by Fostering Effective Technologies (SAFETY) Act of 2002, which provides

		important benefits to organizations that deploy security technology. For additional information visit www.safetyact.gov . Conforms to the applicable international standards for electrical safety and EMC. ADA compliant crosspiece
2.ii	Radiation safety standards	Has been tested against and complies with applicable magnetic field standards concerning human exposure and pacemaker safety.
2.jj	Length of warranty (months)	Information not found on website
2.kk	Auxiliary equipment	<ul style="list-style-type: none"> • Ground stabilizers • Intelligent traffic and alarm counters
2.ll	Manufacturer suggested retail price	Information not found on website
2.mm	Extended maintenance plans	Information not found on website
2.nn	Service contract costs	Information not found on website
2.oo	Other information	<ul style="list-style-type: none"> • Interference immunity • Automatic sensitivity adjustment from 0 – 200% • Automated frequency search • Auto floor sensitivity adjustments • Self-testing diagnostics • Remote display compatible

RFI Q.#	Survey Question (abbreviated)	Response
Usability/Training		
5.a	Usability validation processes	Information not found on website
5.b	User community data	Information not found on website
5.c	User-group meetings and frequency	Information not found on website
5.d	Typical problems reported	Information not found on website
5.d.i	Resolution to problems	Information not found on website
5.e	Hours of tech. support and location	Information not found on website
5.f	Calibration requirements	Automatic sensitivity calibration for overall sensitivity and automatic floor sensitivity calibration or manual sensitivity setting. An automatic sensitivity function selects the appropriate sensitivity for a specific weapon or test object.
5.g	Training provided (hours)	Information not found on website

RFI Q.#	Survey Question (abbreviated)	Response
Features and Functions		
6.a	Types of formalize reports	Intelligent traffic counter, number of alarms
6.b	Types of on-demand reports	Intelligent traffic counter, number of alarms

RFI Q.#	Survey Question (abbreviated)	Response
Performance and Security		
7.a	Average installation time	5 minutes
7.b	False positive / false negative rates	Information not found on website
7.c	Mean time to failure	Information not found on website
7.d	Percent downtime	Information not found on website
7.e	Data protection mechanisms	Will not lose data if power is disconnected
7.f	Database record management	Connectable to MetorNet3 Pro Web security or other monitoring through ETHERNET.

5.82 Rapiscan Meteor 28



Figure 82. Rapiscan Meteor 28

Person-Borne

RFI Q.#	Survey Question (abbreviated)	Response
Vendor Information		
0	Responded to FRN?	No
1.a	Name	Rapiscan Systems
1.b	Address/phone number	2805 Columbia Street, Torrance, CA 90503 (310) 978-1457
1.c	Website	www.rapiscansystems.com
1.d	Years in business	22 years
1.e	Number and types of customers	NATO, the European Union, Manchester Airport Group, UK Customs, Hong Kong International Airport, US Department of Homeland Security, US DoD, etc
1.f	Manufacturing location(s)	Finland, India, Malaysia, Singapore, Mexico, United Kingdom, and the US

RFI Q.#	Survey Question (abbreviated)	Response
Product Information – Person-borne Contraband Detection		
2.a	Name and model number	Rapiscan Meteor 28
2.b	Primary product purpose	Hand-held metal detector with 3 sensitivity settings to detect all types of metal
2.c	Physical dims (HxWxD, inches)	16.35" x 5.5"
2.d	Operational dims (detection area)	Information not found on website
2.e	Weight (lbs)	0.58 lbs with battery

2.f	Portability (e.g., fixed, handheld)	Handheld
2.g	Intended environment (e.g., indoor)	Indoor or outdoor
2.h	Operation conditions/limitations	Operating Temperature: 0°C to 50°C (32 to 122 °F) Humidity: 0-100% (non-condensing)
2.i	Ability to detect metal objects	Yes
2.i.i	Types of metals detected	Ferrous and Non-ferrous
2.i.ii	Types of metals NOT detected	Information not found on website
2.j	Ability to detect non-metal objects	No
2.j.i	Types of non-metals detected	N/A
2.k	Ability to detect in body cavities	Information not found on website
2.k.i	Types of body cavities penetrable	Information not found on website
2.l	Ability to detect other contraband	Information not found on website
2.m	Modes of operation	3 sensitivity settings (level 1: small handguns and knives; level 2: razor blades, handcuff keys; level 3: .22 caliber bullet, metal shanks)
2.n	Number of detection areas	Information not found on website
2.o	Type of detector used	Information not found on website
2.p	Minimum object size detectable	Information not found on website
2.p.i	Size on a person	Information not found on website
2.p.ii	Size in a body cavity	Information not found on website
2.q	Total inspection time (sec/person)	Information not found on website
2.r	Penetration depth (inches)	Information not found on website
2.s	Alert/alarm mechanism	Audible/visible alarm
2.t	Average time to gen. alarm	Information not found on website
2.u	Privacy safeguards/features	Information not found on website
2.v	Number of rec. operators	One
2.w	Tampering safeguards	Information not found on website
2.x	Sturdiness/fragility of material	High impact resistant ABS case
2.y	Ease of storage	Very small
2.z	Data management	Information not found on website
2.aa	Onboard memory storage	Information not found on website
2.bb	Power requirements	NiNH rechargeable battery or 9V alkaline battery
2.cc	Battery discharge time	Alkaline battery – 120 hours Rechargeable NiMH battery – 40 hours
2.dd	Battery shelf life (months)	Information not found on website
2.ee	Battery recharge time (hours)	12 hours
2.ff	Battery replacement procedure	Information not found on website
2.gg	Supplemental charger options	Charging Unit: Simple charging connection that plugs directly into the unit
2.hh	Safety compliances	Is safe for people with pacemakers and will not affect magnetic recording media. The magnetic field strength of the Metor 28 meets with the limits set by international standards for human safety. Conforms with the applicable EU directives.
2.ii	Radiation safety standards	Has been tested against and complies with applicable magnetic field standards concerning human exposure and pacemaker safety.
2.jj	Length of warranty (months)	24 months
2.kk	Auxiliary equipment	<ul style="list-style-type: none"> • Wrist strap • 3 sensitivity settings • Low battery indicator, both visual and audible
2.ll	Manufacturer suggested retail price	Information not found on website
2.mm	Extended maintenance plans	Information not found on website

2.nn	Service contract costs	Information not found on website
2.oo	Other information	<ul style="list-style-type: none"> • Circular opening assists in pinpointing metal objects • Comfortable handle for easy control and grip • Unique angled design

RFI Q.#	Survey Question (abbreviated)	Response
Usability/Training		
5.a	Usability validation processes	Information not found on website
5.b	User community data	Information not found on website
5.c	User-group meetings and frequency	Information not found on website
5.d	Typical problems reported	Information not found on website
5.d.i	Resolution to problems	Information not found on website
5.e	Hours of tech. support and location	Information not found on website
5.f	Calibration requirements	Information not found on website
5.g	Training provided (hours)	Information not found on website

RFI Q.#	Survey Question (abbreviated)	Response
Features and Functions		
6.a	Types of formalize reports	Information not found on website
6.b	Types of on-demand reports	Information not found on website

RFI Q.#	Survey Question (abbreviated)	Response
Performance and Security		
7.a	Average installation time	Information not found on website
7.b	False positive / false negative rates	Information not found on website
7.c	Mean time to failure	Information not found on website
7.d	Percent downtime	Information not found on website
7.e	Data protection mechanisms	Information not found on website
7.f	Database record management	Information not found on website

5.83 Research Electronics International (REI) Orion



Figure 83. REI Orion

Environmental

RFI Q.#	Survey Question (abbreviated)	Response
Vendor Information		
0	Responded to FRN?	Yes
1.a	Name	Research Electronics International (REI) LLC
1.b	Address/phone number	455 Security Drive, Algood, TN 38506 (931) 537-6032
1.c	Website	www.reiusa.net
1.d	Years in business	30+ years
1.e	Number and types of customers	Large corporations, federal agencies, and state/local law enforcement
1.f	Manufacturing location(s)	455 Security Drive, Algood, TN 38506

RFI Q.#	Survey Question (abbreviated)	Response
Product Information – Environmental Contraband Detection		
4.a	Name and model number	ORION 2.4 Non-Linear Junction Detector
4.b	Primary product purpose	Designed to detect and locate hidden electronics such as electronic contraband correctional facilities (i.e., mobile

		phones). The ORION 2.4 provides an alert when the antenna head is passed in close proximity (i.e., less than 1 foot) of electronics (i.e., electronic contraband such as a mobile phone) regardless if the electronic target is powered on or off. The ORION 2.4 will detect through common objects such as wood, mattresses, laundry, books, food products, etc. as long as the targets are not shielded by metal.
4.c	Physical dims (HxWxD, inches)	22.4" H x 3.75" W x 3" D The ORION 2.4 has a telescopic pole and can extend its length to 58".
4.d	Operational dims (detection area)	The ORION 2.4 is hand held and the detection antenna should be held in close proximity (within 12 inches) to objects being inspected.
4.e	Weight (lbs)	2.8 lbs (including battery)
4.f	Portability (e.g., fixed, handheld)	Handheld
4.g	Operation conditions/limitations	Designed to operate in temperatures from 23°F -122°F and 95% humidity (non-condensing). The ORION 2.4 is water resistant with an IP64 rating.
4.h	Ability to detect metal objects	No
4.h.i	Types of metals detected	N/A
4.h.ii	Types of metals NOT detected	N/A
4.i	Ability to detect non-metal objects	Yes; the ORION 2.4 is a non-linear junction detector (NLJD), a physical search device designed to detect and locate hidden electronics. The ORION 2.4 provides an alert when the antenna head is passed in close proximity (i.e., less than 1') of electronics (i.e., electronic contraband such as a mobile phone) regardless if the electronic target is powered on or off.
4.i.i	Types of non-metals detected	The ORION 2.4 will detect through common objects such as wood, mattresses, laundry, books, food products, etc. as long as the targets are not shielded by metal.
4.j	Ability to detect other contraband	N/A
4.k	Modes of operation	The ORION 2.4 is designed for detection of electronics. Transmit power of the ORION 2.4 can be increased to increase detection sensitivity, but this can also increase false alarms.
4.l	Number of detection areas	The antenna head is the detection area.
4.m	Type of detector used	The ORION 2.4 uses non-linear junction detection; it transmits an RF signal and detects harmonic signals indicating the presence of electronics.
4.n	Minimum object size detectable	The ORION 2.4 can detect electronics as small as a SIM card in very close proximity (less than 5" for small items such as a SIM card by itself). Larger items (such as a mobile phone or charger) can be detected at larger distances depending on the target.
4.o	Maximum object size detectable	Larger electronics are easier for the ORION 2.4 to detect; there is no limit on the size of objects that can be detected as long as the target is not shielded in metal (including metal foil).
4.p	Alert/alarm mechanism	1) Visual alerts on display on the antenna head; 2) Audible alert via built in speaker or headphones; 3) Haptic (vibration) alert
4.q	Average time to gen. alarm	Less than 1/10 th of a second

4.r	Number of rec. operators	One operator
4.s	Tampering safeguards	N/A
4.t	Sturdiness/fragility of material	Sturdy polycarbonate body with an IP64 rating for ingress of dust and water.
4.u	Ease of storage	Hard-shell case that is easily packed and stored.
4.v	Data management	N/A
4.w	Onboard memory storage	N/A
4.x	Power requirements	2.4 battery charger operates on 100-240 V, 50-60 Hz
4.y	Battery discharge time	> 8 hours per battery (typical); two rechargeable batteries are included
4.z	Battery shelf life (months)	With a 35-30% charge, the battery will have a minimum of 6 months shelf life when stored at a temperature of 77°F. However the battery can still be recharged to capacity.
4.aa	Battery recharge time (hours)	2.5 hours per battery (typical)
4.bb	Battery replacement procedure	Batteries can easily be swapped in the field by the user (approximately 15 seconds or less)
4.cc	Supplemental charger options	The ORION 2.4 uses 1 lithium battery and it can be charged in the unit. An external battery charger and extra battery (for a total of 2 batteries) is also included.
4.dd	Safety compliances	FCC approved
4.ee	Radiation safety standards	N/A
4.ff	Length of warranty (months)	12 month warranty against defects; the warranty does not include batteries, and/or damage or wear and tear due to misuse.
4.gg	Auxiliary equipment	Includes an external battery charger (AC input 100-240 V) and a spare battery (total of 2 batteries included).
4.hh	Manufacturer suggested retail price	ORION 2.4 NLJD - \$14,300 ORION 2.4 HX NLJD - \$16,650 (includes touchscreen controls)
4.ii	Extended maintenance plans	N/A
4.jj	Service contract costs	N/A
4.kk	Other information	The ORION 2.4 is not recommended to use for on body searches. Also, the ORION 2.4 will not detect electronic targets which are completely shielded by metal or metallic material (i.e., foil).

RFI Q.#	Survey Question (abbreviated)	Response
Usability/Training		
5.a	Usability validation processes	REI recommends 1 day of operation training at the customer's location. Training costs depends on customer's location.
5.b	User community data	REI solicits user feedback on an informal basis. Additional feedback is collected during product trainings. User feedback is taken into consideration for future product development.
5.c	User-group meetings and frequency	REI conducts regular product trainings multiple times a year.
5.d	Typical problems reported	98.9% of ORION 2.4 units have not reported any problems. Only 1.1% were returned to the factory for repair or evaluation. Of the 1.1% returned, the repairs are categorized as follows: 1) Mechanical problem (i.e., user damaged product or

		physical problems such as battery connections, etc.): 42.5% 2) Digital firmware memory flash problem: 24% 3) Other miscellaneous (includes unusual repairs as well as simple factory inspection and evaluation to confirm unit is up to spec): 33%.
5.d.i	Resolution to problems	1) Mechanical problems: Individual units were repaired as needed; the antenna hinge joint has been redesigned and strengthened; additional battery connections inspections are now included on each unit in addition to the overall quality check before shipment. 2) Digital firmware flash problem: Additional inspection is now performed on each unit to ensure firmware is properly installed in addition to the overall quality inspection before shipment. 3) Miscellaneous: All repairs are logged and tracked in a database to identify categories or opportunities for manufacturing improvement.
5.e	Hours of tech. support and location	Telephone support available 8:00AM to 4:30PM Central Time at REI's facilities in Algood, TN, phone (931) 537-6032 or email support@reiusa.net
5.f	Calibration requirements	N/A
5.g	Training provided (hours)	REI recommends 1 day of operation training at the customer's location. Training costs depends on customer's location.

RFI Q.#	Survey Question (abbreviated)	Response
Features and Functions		
6.a	Types of formalize reports	N/A
6.b	Types of on-demand reports	N/A

RFI Q.#	Survey Question (abbreviated)	Response
Performance and Security		
7.a	Average installation time	Can be deployed by a properly trained user in minutes.
7.b	False positive / false negative rates	False positives and proper discrimination between true electronic responses versus corrosive metal responses depends on user training.
7.c	Mean time to failure (MTTF)	98.9% of ORION 2.4 units have not reported any failures. Of the 1.1% of ORION 2.4 units that were returned to the factory for repair, MTTF was 354 days.
7.d	Percent downtime	Of the 1.1% of ORION 2.4 units that were returned to the factory for repair or evaluation, repair turnaround time was approximately 2 days; this does not include shipping or delays from customer.
7.e	Data protection mechanisms	N/A
7.f	Database record management	REI maintains repair and maintenance records for historical analysis.

5.84 SASRAD Fiberscope and Videoscope



Figure 84. SASRAD Fiberscope and Videoscope

Vehicle-Borne

Environmental

RFI Q.#	Survey Question (abbreviated)	Response
Vendor Information		
0	Responded to FRN?	Yes
1.a	Name	SAS R&D Services Inc. (SASRAD)
1.b	Address/phone number	2371 SW 195 Avenue Miramar, FL 33029 (954) 432-2345
1.c	Website	www.SASRAD.com
1.d	Years in business	23 years
1.e	Number and types of customers	U.S. and international government agencies, state, county, and local law enforcement customers
1.f	Manufacturing location(s)	TAA countries, predominantly in the U.S.

RFI Q.#	Survey Question (abbreviated)	Response
Product Information – Vehicle-borne Contraband Detection		
3.a	Name and model number	Ultimate Fiberscope Standard and Superior Grade Videoscope
3.b	Primary product purpose	Transportation inspection. Provides a high-resolution image of difficult to reach areas. Looks around corners and into dark, deep recesses without the need for costly, dangerous, or time consuming teardowns.
3.c	Physical dims (HxWxD, inches)	Fiberscope – 2.5”x 9” x 6” Videoscope - 2.95” x 3.35” x 1.18”
3.d	Operational dims (detection area)	No information provided
3.e	Weight (lbs)	1.5lbs
3.f	Portability (e.g., fixed, handheld)	Handheld
3.g	Operation conditions/limitations	Fiberscope Operating Temperature: -25° C to 80° C

		Videoscope Operating Temperature: -25° C to 60° C
3.h	Ability to detect metal objects	Yes
3.i	Ability to detect drugs/alcohol/chems	Yes; visual picture helps find hidden compartments and other concealment areas in any transportation method
3.j	Ability to detect people or animals	Yes; visual picture helps find hidden compartments and other concealment areas in any transportation method
3.k	Ability to detect other contraband	Yes; visual picture helps find hidden compartments and other concealment areas in any transportation method
3.l	Modes of operation	No information provided
3.m	Number of detection areas	No information provided
3.n	Type of detector used	Visual picture helps find hidden compartments and other concealment areas in any transportation method (videoscope and fiberscope devices)
3.o	Minimum object size detectable	No minimum
3.p	Total inspection time (sec/vehicle)	Dependent on operator and size of vehicle.
3.q	Alert/alarm mechanism	Visual anomaly image
3.r	Average time to gen. alarm	Visual only in real time
3.s	Number of rec. operators	Only one, the user
3.t	Tampering safeguards	No information provided
3.u	Sturdiness/fragility of material	Articulating wire replacement kit, crush resistant tip, aluminum shaft
3.v	Ease of storage	Ships in a hard pelican carrying case with pre-cut spaces to hold the detector and accessories
3.w	Data management	No information provided
3.x	Onboard memory storage	No information provided
3.y	Power requirements	Lithium rechargeable batteries, 3.7V 2200mAh 8.14Wh
3.z	Battery discharge time	4 hours
3.aa	Battery shelf life (months)	6 months of operational use
3.bb	Battery recharge time (hours)	1-2 hours
3.cc	Battery replacement procedure	Field – 10 second change
3.dd	Supplemental charger options	Main battery and car charger
3.ee	Safety compliances	No information provided
3.ff	Radiation safety standards	No information provided
3.gg	Length of warranty (months)	12 month warranty
3.hh	Auxiliary equipment	Digital camera, rubber eyecup, earthing clip, wall charger, vehicle charger, instructional manual for Fiberscope or videoscope and training DVD; also gas tank adapters and window/upholstery wedge
3.ii	Manufacturer suggested retail price	Varies by size from \$6,385 to \$11,197 Kingsville Tire Inspection Scope \$4,860 Standard Grade from \$10,160 to \$19,892.50 Superior Grade from \$21,031.25 to \$32,931.25
3.jj	Extended maintenance plans	No
3.kk	Service contract costs	None
3.ll	Other information	<ul style="list-style-type: none"> • Articulating wire replacement kit included • Gasoline, Diesel, ship, and aviation fuel safe • Heavier components are carried on the body, the hand have only the lightweight viewer to hold • Fiberscope, videoscope, and/or Xpose can be combined in a CEK kit

RFI Q.#	Survey Question (abbreviated)	Response
Product Information – Environmental-borne Contraband Detection		
4.a	Name and model number	Ultimate Fiberscope Standard and Superior Grade Videoscope
4.b	Primary product purpose	Transportation inspection. Provides a high-resolution image of difficult to reach areas. Looks around corners and into dark, deep recesses without the need for costly, dangerous, or time consuming teardowns.
4.c	Physical dims (HxWxD, inches)	Fiberscope – 2.5”x 9” x 6” Videoscope - 2.95” x 3.35” x 1.18”
4.d	Operational dims (detection area)	No information provided
4.e	Weight (lbs)	1.5lbs
4.f	Portability (e.g., fixed, handheld)	Handheld
4.g	Operation conditions/limitations	Fiberscope Operating Temperature: -25° C to 80° C Videoscope Operating Temperature: -25° C to 60° C
4.h	Ability to detect metal objects	Yes
4.h.i	Types of metals detected	No information provided
4.h.ii	Types of metals NOT detected	No information provided
4.i	Ability to detect non-metal objects	Yes
4.i.i	Types of non-metals detected	Visual picture helps find hidden compartments and other concealment areas in any transportation method
4.j	Ability to detect other contraband	Yes, visual picture helps find hidden compartments and other concealment areas in any transportation method
4.k	Modes of operation	No information provided
4.l	Number of detection areas	No information provided
4.m	Type of detector used	Visual picture helps find hidden compartments and other concealment areas in any transportation method (videoscope and fiberscope devices)
4.n	Minimum object size detectable	No minimum
4.o	Maximum object size detectable	No information provided
4.p	Alert/alarm mechanism	Visual anomaly image
4.q	Average time to gen. alarm	Visual only in real time
4.r	Number of rec. operators	Only one, the user
4.s	Tampering safeguards	No information provided
4.t	Sturdiness/fragility of material	Articulating wire replacement kit, crush resistant tip, aluminum shaft
4.u	Ease of storage	Ships in a hard pelican carrying case with pre-cut spaces to hold the detector and accessories
4.v	Data management	No information provided
4.w	Onboard memory storage	No information provided
4.x	Power requirements	Lithium rechargeable batteries, 3.7V 2200mAh 8.14Wh
4.y	Battery discharge time	4 hours
4.z	Battery shelf life (months)	6 months of operational use
4.aa	Battery recharge time (hours)	1-2 hours
4.bb	Battery replacement procedure	Field – 10 second change
4.cc	Supplemental charger options	Main battery and car charger
4.dd	Safety compliances	No information provided
4.ee	Radiation safety standards	No information provided
4.ff	Length of warranty (months)	12 month warranty
4.gg	Auxiliary equipment	Digital camera, rubber eyecup, earthing clip, wall charger, vehicle charger, instructional manual for Fiberscope or videoscope and training DVD; also gas tank adapters and window/upholstery wedge

4.hh	Manufacturer suggested retail price	Varies by size from \$6,385 to \$11,197 Kingsville Tire Inspection Scope \$4,860 Standard Grade from \$10,160 to \$19,892.50 Superior Grade from \$21,031.25 to \$32,931.25
4.ii	Extended maintenance plans	No
4.jj	Service contract costs	None
4.kk	Other information	<ul style="list-style-type: none"> • Articulating wire replacement kit included • Gasoline, Diesel, ship, and aviation fuel safe • Heavier components are carried on the body, the hand have only the lightweight viewer to hold • Fiberscope, videoscope, and/or Xpose can be combined in a CEK kit

RFI Q.#	Survey Question (abbreviated)	Response
Usability/Training		
5.a	Usability validation processes	Formal usability testing with police and customs personnel prior to the release of any technology upgrades or changes to a product.
5.b	User community data	No information provided
5.c	User-group meetings and frequency	Provides hands-on-training on a frequent basis; Advisory team made up of police and customs officers that meet quarterly to discuss product performance, future enhancements, and future changes to products
5.d	Typical problems reported	MTBF 24 months
5.d.i	Resolution to problems	Usually quick fixes due to operator error
5.e	Hours of tech. support and location	Telephone 8am to 5 pm EST, location Miramar Florida. Email 24 hours. Company reports opening a help desk which should be live in the next three months.
5.f	Calibration requirements	Ready to use
5.g	Training provided (hours)	Training programs are available, kits contain DVD and detailed paper manuals

RFI Q.#	Survey Question (abbreviated)	Response
Features and Functions		
6.a	Types of formalize reports	N/A
6.b	Types of on-demand reports	N/A

RFI Q.#	Survey Question (abbreviated)	Response
Performance and Security		
7.a	Average installation time	Instant on, open the box, connect the cables, and the equipment is ready to go in minutes.
7.b	False positive / false negative rates	None
7.c	Mean time to failure	24 months
7.d	Percent downtime	Always available
7.e	Data protection mechanisms	Not needed
7.f	Database record management	N/A

5.85 SASRAD Hitech-Xpose



Figure 85. SASRAD Hitech-Xpose

Vehicle-Borne

Environmental

RFI Q.#	Survey Question (abbreviated)	Response
Vendor Information		
0	Responded to FRN?	Yes
1.a	Name	SAS R&D Services Inc. (SASRAD)
1.b	Address/phone number	2371 SW 195 Avenue Miramar, FL 33029 (954) 432-2345
1.c	Website	www.SASRAD.com
1.d	Years in business	23 years
1.e	Number and types of customers	U.S. and international government agencies, state, county, and local law enforcement customers
1.f	Manufacturing location(s)	TAA countries, predominantly in the U.S.

RFI Q.#	Survey Question (abbreviated)	Response
Product Information – Vehicle-borne Contraband Detection		
3.a	Name and model number	SASRAD Xpose
3.b	Primary product purpose	Transportation inspection. Commercially available, compact, lightweight, rugged handheld density meter designed to aid law enforcement officials with the detection of hidden objects or compartments.
3.c	Physical dims (HxWxD, inches)	3.25" H x 1.75" W x 6.5" D
3.d	Operational dims (detection area)	No information provided
3.e	Weight (lbs)	1.9 lbs
3.f	Portability (e.g., fixed, handheld)	Handheld
3.g	Operation conditions/limitations	Operating Temperature: 5° F to 122°F Storage Temperature: 0° F to 140° F

3.h	Ability to detect metal objects	Yes
3.i	Ability to detect drugs/alcohol/chems	Yes; narcotics, alcohol, and other materials.
3.j	Ability to detect people or animals	Yes; people and animals
3.k	Ability to detect other contraband	The Xpose will detect anything demonstrating a change in density from normal.
3.l	Modes of operation	3 search modes, a radiation scan mode, and a calibration mode
3.m	Number of detection areas	No information provided
3.n	Type of detector used	Xpose uses Barium 133, exempt quantity (not exceeding 10 micro curies, 370 K bq). NRC exempt license and no restrictions on use, possession, and transfer.
3.o	Minimum object size detectable	Drugs ½ kilo
3.p	Total inspection time (sec/vehicle)	No information provided
3.q	Alert/alarm mechanism	60 dB, 2.4 kHz, 0.5 sec. audible alert. Auto-adjusts the alarm trip point to 1 standard deviation, +1 count using 50 db. pulses of 0.50 second deviations
3.r	Average time to gen. alarm	0.25 seconds per reading
3.s	Number of rec. operators	Only one, the user
3.t	Tampering safeguards	Locked out from external tampering
3.u	Sturdiness/fragility of material	The Xpose Contraband Detector has been tested to withstand a drop from a height of 3 feet and continue to operate. Conducted an internal drop test on all six sides. Uses corning "Gorilla Glass" lens. It does not scratch, does not shatter, and is not easily broken (Vickers hardness test rating of 622 to 701).
3.v	Ease of storage	Ships in a hard pelican carrying case with pre-cut spaces to hold the detector and accessories
3.w	Data management	Provides a record, in graphical form, of the last 30 seconds of measurements. Each scan contains the 30 second count rate plus a time stamp.
3.x	Onboard memory storage	Equipped with software and internal memory to store search data for up to 100 of the most recent Xpose scans. Data can be uploaded to a personal computer using the Xpose Tools software toolkit
3.y	Power requirements	2 AA alkaline batteries
3.z	Battery discharge time	40 hours
3.aa	Battery shelf life (months)	6 months of operational use
3.bb	Battery recharge time (hours)	Replace commercially available batteries, extra set shipped with unit
3.cc	Battery replacement procedure	Field – Replacing batteries is accomplished by loosening the fastener to remove the battery covers, swapping in the charged batteries, replacing the cover and hand tightening the fastener. The entire operation can be completed in less than one minute.
3.dd	Supplemental charger options	Not needed – commercially available batteries

3. ee	Safety compliances	The Xpose has an exempt distribution license No. 04-23994-01E granted by the U.S. Nuclear Regulatory Commission in accordance with NRC 10CFR§32.31, Importantly, the Xpose® has been granted an Exempt License by the Nuclear Regulatory Commission (NRC). The benefits of an Exempt license include: no registration requirements, no fees, not subject to regulatory inspections/violations, no reporting requirements and no restrictions on geographic movement or transfers, also there are no restrictions on dealing with damaged unit. Units out of service may be disposed of locally without the need to return to a certified disposal facility.
3. ff	Radiation safety standards	The Ba-133 source is shielded in a tungsten alloy rotating enclosure incorporating a spring loaded, fail safe mechanism. In the normal storage condition, with the enclosure rotated in the closed position, the source photons are almost completely absorbed by the enclosure. The source is activated using the spring loaded mechanism that requires two search activation buttons to be simultaneously depressed. The source then rotates into the scan position emitting a narrow beam of gamma photons at the target. Releasing either button releases the spring and the enclosure rotates back to the closed position. The use of two buttons helps prevent accidental exposure to operator as well as the general public. Safety is further enhanced by designing the tungsten enclosure as a solid component with no serviceable parts.
3. gg	Length of warranty (months)	12 month warranty
3. hh	Auxiliary equipment	Comes with holster, wrist strap, 3.5 mm (0.14 in) stereo headset, Calibration Block, Earphones, Spare Set of Batteries, USB cable, Software DVD, Instructional manual for Xpose in AVAILABLE LANGUAGES and training DVD in VARIOUS LANGUAGES to simplify training and operator use in the field.
3. ii	Manufacturer suggested retail price	\$7,600.00 USD
3. jj	Extended maintenance plans	No
3. kk	Service contract costs	None
3. ll	Other information	<ul style="list-style-type: none"> • Incorporates a large CsI (TI) detector for better penetration and faster indication of “hits” triggered • Ergonomic grip, anti-scratch detection surface, integrated safety wrist strap, and a large easy-to-read illuminated graphical display • Ambidextrous operation • Water resistant • Flexible readout options (remote display available) • Fiberscope, videoscope, and/or Xpose can be combined in a CEK kit

RFI Q.#	Survey Question (abbreviated)	Response
Product Information – Environmental-borne Contraband Detection		
4. a	Name and model number	SASRAD Xpose
4. b	Primary product purpose	Transportation inspection. Commercially available,

		compact, lightweight, rugged handheld density meter designed to aid law enforcement officials with the detection of hidden objects or compartments.
4.c	Physical dims (HxWxD, inches)	3.25"x 1.75"x 6.5"
4.d	Operational dims (detection area)	No information provided
4.e	Weight (lbs)	1.9lbs
4.f	Portability (e.g., fixed, handheld)	Handheld
4.g	Operation conditions/limitations	Operating Temperature: 5° F to 122°F Storage Temperature: 0° F to 140° F
4.h	Ability to detect metal objects	Yes
4.h.i	Types of metals detected	The Xpose will detect anything demonstrating a change in density from normal.
4.h.ii	Types of metals NOT detected	No information provided
4.i	Ability to detect non-metal objects	Yes, with the XR-DE Plus module
4.i.i	Types of non-metals detected	The Xpose will detect anything demonstrating a change in density from normal.
4.j	Ability to detect other contraband	The Xpose will detect anything demonstrating a change in density from normal.
4.k	Modes of operation	3 search modes, a radiation scan mode, and a calibration mode
4.l	Number of detection areas	No information provided
4.m	Type of detector used	Xpose uses Barium 133, exempt quantity (not exceeding 10 micro curies, 370 K bq). NRC exempt license and no restrictions on use, possession, and transfer.
4.n	Minimum object size detectable	Drugs ½ kilo
4.o	Maximum object size detectable	No information provided
4.p	Alert/alarm mechanism	60 dB, 2.4 kHz, 0.5 sec. audible alert. Auto-adjusts the alarm trip point to 1 standard deviation, +1 count using 50 db. pulses of 0.50 second deviations
4.q	Average time to gen. alarm	0.25 seconds per reading
4.r	Number of rec. operators	Only one, the user
4.s	Tampering safeguards	Locked out from external tampering
4.t	Sturdiness/fragility of material	The Xpose Contraband Detector has been tested to withstand a drop from a height of 3 feet and continue to operate. Conducted an internal drop test on all six sides. Uses corning "Gorilla Glass" lens. It does not scratch, does not shatter, and is not easily broken (Vickers hardness test rating of 622 to 701).
4.u	Ease of storage	Ships in a hard pelican carrying case with pre-cut spaces to hold the detector and accessories
4.v	Data management	Provides a record, in graphical form, of the last 30 seconds of measurements. Each scan contains the 30 second count rate plus a time stamp.
4.w	Onboard memory storage	Equipped with software and internal memory to store search data for up to 100 of the most recent Xpose scans. Data can be uploaded to a personal computer using the Xpose Tools software toolkit
4.x	Power requirements	2 AA alkaline batteries
4.y	Battery discharge time	40 hours
4.z	Battery shelf life (months)	6 months of operational use
4.aa	Battery recharge time (hours)	Replace commercially available batteries, extra set shipped with unit
4.bb	Battery replacement procedure	Field – Replacing batteries is accomplished by loosening

		the fastener to remove the battery covers, swapping in the charged batteries, replacing the cover and hand tightening the fastener. The entire operation can be completed in less than one minute.
4.cc	Supplemental charger options	Not needed – commercially available batteries
4.dd	Safety compliances	The Xpose has an exempt distribution license No. 04-23994-01E granted by the U.S. Nuclear Regulatory Commission in accordance with NRC 10CFR§32.31, Importantly, the Xpose® has been granted an Exempt License by the Nuclear Regulatory Commission (NRC). The benefits of an Exempt license include: no registration requirements, no fees, not subject to regulatory inspections/violations, no reporting requirements and no restrictions on geographic movement or transfers, also there are no restrictions on dealing with damaged unit. Units out of service may be disposed of locally without the need to return to a certified disposal facility. Competitive models do not have an Exempt license and buyers are subject to complying with all State and NRC regulations and reporting requirements.
4.ee	Radiation safety standards	The Ba-133 source is shielded in a tungsten alloy rotating enclosure incorporating a spring loaded, fail safe mechanism. In the normal storage condition, with the enclosure rotated in the closed position, the source photons are almost completely absorbed by the enclosure. The source is activated using the spring loaded mechanism that requires two search activation buttons to be simultaneously depressed. The source then rotates into the scan position emitting a narrow beam of gamma photons at the target. Releasing either button releases the spring and the enclosure rotates back to the closed position. The use of two buttons helps prevent accidental exposure to operator as well as the general public. Safety is further enhanced by designing the tungsten enclosure as a solid component with no serviceable parts.
4.ff	Length of warranty (months)	12 month warranty
4.gg	Auxiliary equipment	Comes with holster, wrist strap, 3.5 mm (0.14 in) stereo headset, Calibration Block, Earphones, Spare Set of Batteries, USB cable Software DVD, Instructional manual for Xpose in AVAILABLE LANGUAGES and training DVD in VARIOUS LANGUAGES to simplify training and operator use in the field.
4.hh	Manufacturer suggested retail price	\$7,600.00 USD
4.ii	Extended maintenance plans	No
4.jj	Service contract costs	None
4.kk	Other information	<ul style="list-style-type: none"> • Incorporates a large CsI (TI) detector for better penetration and faster indication of “hits” triggered • Ergonomic grip, anti-scratch detection surface, integrated safety wrist strap, and a large easy-to-read illuminated graphical display • Ambidextrous operation • Water resistant

		<ul style="list-style-type: none"> Flexible readout options (remote display available) Fiberscope, videoscope, and/or Xpose can be combined in a CEK kit
--	--	---

RFI Q.#	Survey Question (abbreviated)	Response
Usability/Training		
5.a	Usability validation processes	Formal usability testing with police and customs personnel prior to the release of any technology upgrades or changes to a product.
5.b	User community data	No information provided
5.c	User-group meetings and frequency	Provides hands-on-training on a frequent basis; Advisory team made up of police and customs officers that meet quarterly to discuss product performance, future enhancements, and future changes to products
5.d	Typical problems reported	MTBF 24 months
5.d.i	Resolution to problems	Usually quick fixes due to operator error
5.e	Hours of tech. support and location	Telephone 8am to 5 pm EST, location Miramar Florida. Email 24 hours. Company reports opening a help desk which should be live in the next three months.
5.f	Calibration requirements	Ready to use
5.g	Training provided (hours)	Training programs are available, kits contain DVD and detailed paper manuals

RFI Q.#	Survey Question (abbreviated)	Response
Features and Functions		
6.a	Types of formalize reports	N/A
6.b	Types of on-demand reports	N/A

RFI Q.#	Survey Question (abbreviated)	Response
Performance and Security		
7.a	Average installation time	Instant on, open the box, connect the cables, and the equipment is ready to go in minutes.
7.b	False positive / false negative rates	None
7.c	Mean time to failure	24 months
7.d	Percent downtime	Always available
7.e	Data protection mechanisms	Not needed
7.f	Database record management	N/A

5.86 Security Pro USA Magnum Mobile UVIS



Figure 86. Security Pro USA Magnum Mobile UVIS

Vehicle-Borne

RFI Q.#	Survey Question (abbreviated)	Response
Vendor Information		
0	Responded to FRN?	No
1.a	Name	Security Pro USA
1.b	Address/phone number	(800) 264-8273
1.c	Website	www.securityprousa.com
1.d	Years in business	30 years
1.e	Number and types of customers	Military, police, civilian, and government organizations
1.f	Manufacturing location(s)	Information not found on website

RFI Q.#	Survey Question (abbreviated)	Response
Product Information – Vehicle-borne Contraband Detection		
3.a	Name and model number	Security Pro USA Magnum Mobile UVIS (Under Vehicle Video Inspection System)
3.b	Primary product purpose	Vehicle scanning system for inspection of vehicle chassis
3.c	Physical dims (HxWxD, inches)	75" H x 236" W x 8" D
3.d	Operational dims (detection area)	Information not found on website
3.e	Weight (lbs)	Information not found on website
3.f	Portability (e.g., fixed, handheld)	Portable
3.g	Operation conditions/limitations	Operating Temperature: -15°C to 60°C (5°F to 140°F) Water tight system for harsh weather conditions
3.h	Ability to detect metal objects	Yes; guns and explosives
3.i	Ability to detect	Yes; narcotics, alcohol, and other organic materials.

	drugs/alcohol/chems	
3.j	Ability to detect people or animals	Yes; people and animals
3.k	Ability to detect other contraband	Yes
3.l	Modes of operation	Manual mode for thoroughly inspecting suspicious objects; programmable auto scan sequences; systematic scan cycle
3.m	Number of detection areas	Information not found on website
3.n	Type of detector used	Multiple video camera views (high resolution camera); 4 axis optical head unit allow users to view above strut bars and other vehicle components from multiple angles and magnification
3.o	Minimum object size detectable	Information not found on website
3.p	Total inspection time (sec/vehicle)	Information not found on website
3.q	Alert/alarm mechanism	Information not found on website
3.r	Average time to gen. alarm	Information not found on website
3.s	Number of rec. operators	Information not found on website
3.t	Tampering safeguards	Information not found on website
3.u	Sturdiness/fragility of material	Water tight system for harsh weather conditions. Safe in the environment of volatile material transports
3.v	Ease of storage	System comes with a trailer to store and transport everything
3.w	Data management	Data can be recorded to the local DVR system for documentation, training, and investigation uses. The data can be tied to an LPR system for better documentation
3.x	Onboard memory storage	N/A
3.y	Power requirements	110-220VAC 4 Amp
3.z	Battery discharge time	No battery required
3.aa	Battery shelf life (months)	No battery required
3.bb	Battery recharge time (hours)	No battery required
3.cc	Battery replacement procedure	No battery required
3.dd	Supplemental charger options	Comes with a generator
3.ee	Safety compliances	Information not found on website
3.ff	Radiation safety standards	Information not found on website
3.gg	Length of warranty (months)	Information not found on website
3.hh	Auxiliary equipment	<ul style="list-style-type: none"> • Backup generator • Trailer • Vehicle ramp • 17" LCD monitor • Auto scanning sequence controls pan, tilt, zoom, and conveyor • Simple user interface • Control unit can be located as distant as needed
3.ii	Manufacturer suggested retail price	Please contact for details
3.jj	Extended maintenance plans	Information not found on website
3.kk	Service contract costs	Please contact for details
3.ll	Other information	<ul style="list-style-type: none"> • Live color video feed • Fully functional without any external needs • 440,000 pixel cameras, 530 TV lines • 36x optical auto focus zoom lens • Wide dynamic range feature • Non PC based • Operator/Bomb squad technician may inspect objects from multiple angles before confronting them

RFI Q.#	Survey Question (abbreviated)	Response
Usability/Training		
5.a	Usability validation processes	Information not found on website
5.b	User community data	Information not found on website
5.c	User-group meetings and frequency	Information not found on website
5.d	Typical problems reported	Information not found on website
5.d.i	Resolution to problems	Information not found on website
5.e	Hours of tech. support and location	Information not found on website
5.f	Calibration requirements	Information not found on website
5.g	Training provided (hours)	Only 20 minutes training needed

RFI Q.#	Survey Question (abbreviated)	Response
Features and Functions		
6.a	Types of formalize reports	Information not found on website
6.b	Types of on-demand reports	Information not found on website

RFI Q.#	Survey Question (abbreviated)	Response
Performance and Security		
7.a	Average installation time	Information not found on website
7.b	False positive / false negative rates	Information not found on website
7.c	Mean time to failure	Information not found on website
7.d	Percent downtime	Information not found on website
7.e	Data protection mechanisms	Information not found on website
7.f	Database record management	Data can be recorded to the local DVR system for documentation, training, and investigation uses. The data can be tied to an LPR system for better documentation

5.87 Security Pro USA Magnum UVIS



Figure 87. Security Pro USA Magnum UVIS

Vehicle-Borne

RFI Q.#	Survey Question (abbreviated)	Response
Vendor Information		
0	Responded to FRN?	No
1.a	Name	Security Pro USA
1.b	Address/phone number	(800) 264-8273
1.c	Website	www.securityprousa.com
1.d	Years in business	30 years
1.e	Number and types of customers	Military, police, civilian, and government organizations
1.f	Manufacturing location(s)	Information not found on website

RFI Q.#	Survey Question (abbreviated)	Response
Product Information – Vehicle-borne Contraband Detection		
3.a	Name and model number	Security Pro USA Magnum UVIS (Under Vehicle Video Inspection System) TI-2500-S; TI-4000-S
3.b	Primary product purpose	Vehicle scanning system for inspection of the vehicle chassis
3.c	Physical dims (HxWxD, inches)	TI-2500-S: 28" H x 98" W x 8" D TI-4000-S: 28" H x 157" W x 8" D
3.d	Operational dims (detection area)	Information not found on website
3.e	Weight (lbs)	Information not found on website
3.f	Portability (e.g., fixed, handheld)	Fixed
3.g	Operation conditions/limitations	Operating Temperature: -15°C to 60°C (5°F to 140°F)

		Water tight system for harsh weather conditions
3.h	Ability to detect metal objects	Yes; guns and explosives
3.i	Ability to detect drugs/alcohol/chems	Yes; narcotics, alcohol, and other organic materials.
3.j	Ability to detect people or animals	Yes; people and animals
3.k	Ability to detect other contraband	Yes
3.l	Modes of operation	Manual mode for thoroughly inspecting suspicious objects; programmable auto scan sequences; systematic scan cycle
3.m	Number of detection areas	Information not found on website
3.n	Type of detector used	Multiple video camera views (high resolution camera); 4 axis optical head unit allow users to view above strut bars and other vehicle components from multiple angles and magnification
3.o	Minimum object size detectable	Information not found on website
3.p	Total inspection time (sec/vehicle)	Information not found on website
3.q	Alert/alarm mechanism	Information not found on website
3.r	Average time to gen. alarm	Information not found on website
3.s	Number of rec. operators	Information not found on website
3.t	Tampering safeguards	Information not found on website
3.u	Sturdiness/fragility of material	Water tight system for harsh weather conditions. Safe in the environment of volatile material transports
3.v	Ease of storage	Information not found on website
3.w	Data management	Data can be recorded to the local DVR system for documentation, training, and investigation uses. The data can be tied to an LPR system for better documentation
3.x	Onboard memory storage	N/A
3.y	Power requirements	110-220VAC 4 Amp
3.z	Battery discharge time	No battery required
3.aa	Battery shelf life (months)	No battery required
3.bb	Battery recharge time (hours)	No battery required
3.cc	Battery replacement procedure	No battery required
3.dd	Supplemental charger options	Information not found on website
3.ee	Safety compliances	Information not found on website
3.ff	Radiation safety standards	Information not found on website
3.gg	Length of warranty (months)	Information not found on website
3.hh	Auxiliary equipment	<ul style="list-style-type: none"> • 17" LCD monitor • Auto scanning sequence controls pan, tilt, zoom, and conveyor • Simple user interface • Control unit can be located as distant as needed • Operation via touch screen and joysticks
3.ii	Manufacturer suggested retail price	Please contact for details
3.jj	Extended maintenance plans	Information not found on website
3.kk	Service contract costs	Please contact for details
3.ll	Other information	<ul style="list-style-type: none"> • Capable to scan the vehicle while stationary • Live color video feed • 440,000 pixel cameras, 530 TV lines • 36x optical auto focus zoom lens • Wide dynamic range feature • Operator/Bomb squad technician may inspect objects from multiple angles before confronting them • Manual mode may be accessed even during an

		automated sequence; the resume button continues the auto scan
--	--	---

RFI Q.#	Survey Question (abbreviated)	Response
Usability/Training		
5.a	Usability validation processes	Information not found on website
5.b	User community data	Information not found on website
5.c	User-group meetings and frequency	Information not found on website
5.d	Typical problems reported	Information not found on website
5.d.i	Resolution to problems	Information not found on website
5.e	Hours of tech. support and location	Information not found on website
5.f	Calibration requirements	Information not found on website
5.g	Training provided (hours)	Information not found on website

RFI Q.#	Survey Question (abbreviated)	Response
Features and Functions		
6.a	Types of formalize reports	Information not found on website
6.b	Types of on-demand reports	Information not found on website

RFI Q.#	Survey Question (abbreviated)	Response
Performance and Security		
7.a	Average installation time	Quick and simple installation
7.b	False positive / false negative rates	Information not found on website
7.c	Mean time to failure	Information not found on website
7.d	Percent downtime	Information not found on website
7.e	Data protection mechanisms	Information not found on website
7.f	Database record management	Data can be recorded to the local DVR system for documentation, training, and investigation uses. The data can be tied to an LPR system for better documentation

5.88 Security Pro USA UVI Video Camera IR013



Figure 88. Security Pro USA UVI Video Camera IR013

Vehicle-Borne

RFI Q.#	Survey Question (abbreviated)	Response
Vendor Information		
0	Responded to FRN?	No
1.a	Name	Security Pro USA
1.b	Address/phone number	(800) 264-8273
1.c	Website	www.securityprousa.com
1.d	Years in business	30 years
1.e	Number and types of customers	Military, police, civilian, and government organizations
1.f	Manufacturing location(s)	Information not found on website

RFI Q.#	Survey Question (abbreviated)	Response
Product Information – Vehicle-borne Contraband Detection		
3.a	Name and model number	Security Pro USA UVI Video Camera IR013
3.b	Primary product purpose	Under vehicle inspection video camera
3.c	Physical dims (HxWxD, inches)	Adjustable Rod: 35.5” – 43.3” Trolley and Camera: 4”
3.d	Operational dims (detection area)	Information not found on website
3.e	Weight (lbs)	3.3 lbs
3.f	Portability (e.g., fixed, handheld)	Handheld
3.g	Operation conditions/limitations	Information not found on website
3.h	Ability to detect metal objects	Yes; View on camera
3.i	Ability to detect drugs/alcohol/chems	Yes; View on camera
3.j	Ability to detect people or animals	Yes; view on camera
3.k	Ability to detect other contraband	Yes; view on camera

3.l	Modes of operation	Information not found on website
3.m	Number of detection areas	Information not found on website
3.n	Type of detector used	Low profile UVI camera on a trolley
3.o	Minimum object size detectable	Information not found on website
3.p	Total inspection time (sec/vehicle)	Information not found on website
3.q	Alert/alarm mechanism	Information not found on website
3.r	Average time to gen. alarm	Information not found on website
3.s	Number of rec. operators	Information not found on website
3.t	Tampering safeguards	Information not found on website
3.u	Sturdiness/fragility of material	Dual ball bearing, multi-directional wheels are used for durability, extendable aluminum rod
3.v	Ease of storage	Has wheels and adjustable rod length
3.w	Data management	Data can be recorded to optional DVR system
3.x	Onboard memory storage	Information not found on website
3.y	Power requirements	2800 mAh Li battery (110~230 VDC power adapter)
3.z	Battery discharge time	5 hours
3.aa	Battery shelf life (months)	Information not found on website
3.bb	Battery recharge time (hours)	Information not found on website
3.cc	Battery replacement procedure	Information not found on website
3.dd	Supplemental charger options	Information not found on website
3.ee	Safety compliances	Information not found on website
3.ff	Radiation safety standards	Information not found on website
3.gg	Length of warranty (months)	Information not found on website
3.hh	Auxiliary equipment	<ul style="list-style-type: none"> • Monitor: manual tilt, 4.3 color LCD monitor with 640 x 480 pixel high resolution screen • Camera: manual tilt, color CCD wide angle camera with up to 10M IR lighting • Extendable aluminum rod with ethylene vinyl soft handle • 3 dual ball-bearing, high-quality, multi-directional wheels
3.ii	Manufacturer suggested retail price	\$499.99 USD
3.jj	Extended maintenance plans	Information not found on website
3.kk	Service contract costs	Information not found on website
3.ll	Other information	Upgradeable to include a built-in DVR

RFI Q.#	Survey Question (abbreviated)	Response
Usability/Training		
5.a	Usability validation processes	Information not found on website
5.b	User community data	Information not found on website
5.c	User-group meetings and frequency	Information not found on website
5.d	Typical problems reported	Information not found on website
5.d.i	Resolution to problems	Information not found on website
5.e	Hours of tech. support and location	Information not found on website
5.f	Calibration requirements	Information not found on website
5.g	Training provided (hours)	Information not found on website

RFI Q.#	Survey Question (abbreviated)	Response
Features and Functions		
6.a	Types of formalize reports	Information not found on website
6.b	Types of on-demand reports	Information not found on website

RFI Q.#	Survey Question (abbreviated)	Response
Performance and Security		
7.a	Average installation time	Information not found on website
7.b	False positive / false negative rates	Information not found on website
7.c	Mean time to failure	Information not found on website
7.d	Percent downtime	Information not found on website
7.e	Data protection mechanisms	Information not found on website
7.f	Database record management	Data can be recorded to the optional DVR system.

5.89 Smiths Detection Ego



Figure 89. Smiths Detection Ego

Person-Borne

RFI Q.#	Survey Question (abbreviated)	Response
Vendor Information		
0	Responded to FRN?	No
1.a	Name	Smiths Detection Group Ltd
1.b	Address/phone number	2202 Lakeside Boulevard, Edgewood, MD 21040 (410) 612-2625
1.c	Website	www.smithsdetection.com
1.d	Years in business	19 years
1.e	Number and types of customers	Information not found on website
1.f	Manufacturing location(s)	Information not found on website

RFI Q.#	Survey Question (abbreviated)	Response
Product Information – Person-borne Contraband Detection		
2.a	Name and model number	Smiths Detection Ego
2.b	Primary product purpose	High throughput detection for metal weapons, bomb components, and contraband
2.c	Physical dims (HxWxD, inches)	83.1" H x 42.5" W x 95.1" D
2.d	Operational dims (detection area)	Information not found on website
2.e	Weight (lbs)	1035 lbs
2.f	Portability (e.g., fixed, handheld)	Fixed
2.g	Intended environment (e.g., indoor)	Indoor
2.h	Operation conditions/limitations	Operating Temperature: 0°C to 40°C (32 to 104 °F) Humidity: 10-90%
2.i	Ability to detect metal objects	Yes

2.i.i	Types of metals detected	Information not found on website
2.i.ii	Types of metals NOT detected	Information not found on website
2.j	Ability to detect non-metal objects	Yes
2.j.i	Types of non-metals detected	Ceramics, plastics, liquids, narcotics, explosives, leather, paper
2.k	Ability to detect in body cavities	Information not found on website
2.k.i	Types of body cavities penetrable	Information not found on website
2.l	Ability to detect other contraband	Yes
2.m	Modes of operation	Automated detection and operator image review modes
2.n	Number of detection areas	Information not found on website
2.o	Type of detector used	The system uses active millimeter-wave technology.
2.p	Minimum object size detectable	Information not found on website
2.p.i	Size on a person	Information not found on website
2.p.ii	Size in a body cavity	Information not found on website
2.q	Total inspection time (sec/person)	Information not found on website
2.r	Penetration depth (inches)	Information not found on website
2.s	Alert/alarm mechanism	Instant presentation of scan results along with audio/visual alarms.
2.t	Average time to gen. alarm	Instantaneous
2.u	Privacy safeguards/features	Different levels of password protected access, generic graphical representation of person presented to operator
2.v	Number of rec. operators	Information not found on website
2.w	Tampering safeguards	Different levels of password protected access
2.x	Sturdiness/fragility of material	Information not found on website
2.y	Ease of storage	Information not found on website
2.z	Data management	Information not found on website
2.aa	Onboard memory storage	Information not found on website
2.bb	Power requirements	120 VAC; 230 VAC
2.cc	Battery discharge time	Information not found on website
2.dd	Battery shelf life (months)	Information not found on website
2.ee	Battery recharge time (hours)	Information not found on website
2.ff	Battery replacement procedure	Information not found on website
2.gg	Supplemental charger options	Information not found on website
2.hh	Safety compliances	EU-ECAC Standard 2 approved
2.ii	Radiation safety standards	Information not found on website
2.jj	Length of warranty (months)	Information not found on website
2.kk	Auxiliary equipment	<ul style="list-style-type: none"> • Right/left panel orientation • Output format prompts a directed search for fast alarm resolution • Combined search scan for optimum throughput • Random alarm generation • Audio signal alert • Open plan design
2.ll	Manufacturer suggested retail price	Information not found on website
2.mm	Extended maintenance plans	Information not found on website
2.nn	Service contract costs	Information not found on website
2.oo	Other information	<ul style="list-style-type: none"> • 1.3 KW nominal power consumption • > 3 km (9842.5 ft) altitude installation • Process checking to ensure correct CONOPS

RFI Q.#	Survey Question (abbreviated)	Response
Usability/Training		
5.a	Usability validation processes	Information not found on website
5.b	User community data	Information not found on website
5.c	User-group meetings and frequency	Information not found on website
5.d	Typical problems reported	Information not found on website
5.d.i	Resolution to problems	Information not found on website
5.e	Hours of tech. support and location	Tech support available
5.f	Calibration requirements	System checks operational process
5.g	Training provided (hours)	Information not found on website

RFI Q.#	Survey Question (abbreviated)	Response
Features and Functions		
6.a	Types of formalize reports	Throughput, scan count, user access, and other operational parameters, system indicates concealed objects with a marker on the appropriate part of the graphical display
6.b	Types of on-demand reports	Throughput, scan count, user access, and other operational parameters

RFI Q.#	Survey Question (abbreviated)	Response
Performance and Security		
7.a	Average installation time	Information not found on website
7.b	False positive / false negative rates	Information not found on website
7.c	Mean time to failure	Information not found on website
7.d	Percent downtime	Information not found on website
7.e	Data protection mechanisms	Levels of password protections
7.f	Database record management	Information not found on website

5.90 SUNS International TS-80X



Figure 90. SUNS International TS-80X

Person-Borne

RFI Q.#	Survey Question (abbreviated)	Response
Vendor Information		
0	Responded to FRN?	No
1.a	Name	SUNS International LLC
1.b	Address/phone number	P.O. Box 804, Bedford, MA 01730-0804 (781) 652-8305
1.c	Website	www.suns-usa.com
1.d	Years in business	Information not found on website
1.e	Number and types of customers	Information not found on website
1.f	Manufacturing location(s)	China

RFI Q.#	Survey Question (abbreviated)	Response
Product Information – Person-borne Contraband Detection		
2.a	Name and model number	SUNS TS-8x
2.b	Primary product purpose	Handheld metal detector
2.c	Physical dims (HxWxD, inches)	15.5" H x 5.27" W x 2.76" D
2.d	Operational dims (detection area)	Information not found on website
2.e	Weight (lbs)	0.51 lbs without battery
2.f	Portability (e.g., fixed, handheld)	Handheld
2.g	Intended environment (e.g., indoor)	Information not found on website
2.h	Operation conditions/limitations	Operating Temperature: -10°C to 50°C (14 to 122 °F) Humidity: 0-80%
2.i	Ability to detect metal objects	Yes
2.i.i	Types of metals detected	Information not found on website

2.i.ii	Types of metals NOT detected	Information not found on website
2.j	Ability to detect non-metal objects	Information not found on website
2.j.i	Types of non-metals detected	Information not found on website
2.k	Ability to detect in body cavities	Information not found on website
2.k.i	Types of body cavities penetrable	Information not found on website
2.l	Ability to detect other contraband	Information not found on website
2.m	Modes of operation	Information not found on website
2.n	Number of detection areas	Information not found on website
2.o	Type of detector used	Information not found on website
2.p	Minimum object size detectable	Information not found on website
2.p.i	Size on a person	70 mm (2.8 in)
2.p.ii	Size in a body cavity	Information not found on website
2.q	Total inspection time (sec/person)	Information not found on website
2.r	Penetration depth (inches)	Information not found on website
2.s	Alert/alarm mechanism	Audio alarm status indicators
2.t	Average time to gen. alarm	Information not found on website
2.u	Privacy safeguards/features	Information not found on website
2.v	Number of rec. operators	Information not found on website
2.w	Tampering safeguards	Information not found on website
2.x	Sturdiness/fragility of material	Information not found on website
2.y	Ease of storage	Foldable for easy storage
2.z	Data management	Information not found on website
2.aa	Onboard memory storage	Information not found on website
2.bb	Power requirements	9V 6F22
2.cc	Battery discharge time	Information not found on website
2.dd	Battery shelf life (months)	Information not found on website
2.ee	Battery recharge time (hours)	Information not found on website
2.ff	Battery replacement procedure	Information not found on website
2.gg	Supplemental charger options	Information not found on website
2.hh	Safety compliances	Information not found on website
2.ii	Radiation safety standards	Information not found on website
2.jj	Length of warranty (months)	Information not found on website
2.kk	Auxiliary equipment	Low battery alert
2.ll	Manufacturer suggested retail price	Information not found on website
2.mm	Extended maintenance plans	Information not found on website
2.nn	Service contract costs	Information not found on website
2.oo	Other information	<ul style="list-style-type: none"> <5mA (TS80A); <20mA (TS80B / TS82) operating current 260 mm (10.2 in) long when folded

RFI Q.#	Survey Question (abbreviated)	Response
Usability/Training		
5.a	Usability validation processes	Information not found on website
5.b	User community data	Information not found on website
5.c	User-group meetings and frequency	Information not found on website
5.d	Typical problems reported	Information not found on website
5.d.i	Resolution to problems	Information not found on website
5.e	Hours of tech. support and location	Information not found on website
5.f	Calibration requirements	Information not found on website
5.g	Training provided (hours)	Information not found on website

RFI Q.#	Survey Question (abbreviated)	Response
Features and Functions		
6.a	Types of formalize reports	Information not found on website
6.b	Types of on-demand reports	Information not found on website

RFI Q.#	Survey Question (abbreviated)	Response
Performance and Security		
7.a	Average installation time	Information not found on website
7.b	False positive / false negative rates	Information not found on website
7.c	Mean time to failure	Information not found on website
7.d	Percent downtime	Information not found on website
7.e	Data protection mechanisms	Information not found on website
7.f	Database record management	Information not found on website

5.91 SUNS International TS-90



Figure 91. SUNS International TS-90

Person-Borne

RFI Q.#	Survey Question (abbreviated)	Response
Vendor Information		
0	Responded to FRN?	No
1.a	Name	Suns International LLC
1.b	Address/phone number	P.O. Box 804, Bedford, MA 01730-0804 (781) 652-8305
1.c	Website	www.suns-usa.com
1.d	Years in business	Information not found on website
1.e	Number and types of customers	Information not found on website
1.f	Manufacturing location(s)	China

RFI Q.#	Survey Question (abbreviated)	Response
Product Information – Person-borne Contraband Detection		
2.a	Name and model number	Suns TS-90
2.b	Primary product purpose	Handheld metal detector
2.c	Physical dims (HxWxD, inches)	16.54" H x 3.15" W x 1.57" D
2.d	Operational dims (detection area)	Information not found on website
2.e	Weight (lbs)	1.0 lbs
2.f	Portability (e.g., fixed, handheld)	Handheld
2.g	Intended environment (e.g., indoor)	Information not found on website
2.h	Operation conditions/limitations	Operating Temperature: -10°C to 50°C (14 to 122 °F)
2.i	Ability to detect metal objects	Yes
2.i.i	Types of metals detected	Information not found on website
2.i.ii	Types of metals NOT detected	Information not found on website
2.j	Ability to detect non-metal objects	Information not found on website

2.j.i	Types of non-metals detected	Information not found on website
2.k	Ability to detect in body cavities	Information not found on website
2.k.i	Types of body cavities penetrable	Information not found on website
2.l	Ability to detect other contraband	Information not found on website
2.m	Modes of operation	Reduced sensitivity mode
2.n	Number of detection areas	Information not found on website
2.o	Type of detector used	Information not found on website
2.p	Minimum object size detectable	Information not found on website
2.p.i	Size on a person	15 mm (0.6 in)
2.p.ii	Size in a body cavity	Information not found on website
2.q	Total inspection time (sec/person)	Information not found on website
2.r	Penetration depth (inches)	Information not found on website
2.s	Alert/alarm mechanism	Audio and visual alarm status indicators
2.t	Average time to gen. alarm	Information not found on website
2.u	Privacy safeguards/features	Information not found on website
2.v	Number of rec. operators	Information not found on website
2.w	Tampering safeguards	Information not found on website
2.x	Sturdiness/fragility of material	ABS plastic
2.y	Ease of storage	Information not found on website
2.z	Data management	Information not found on website
2.aa	Onboard memory storage	Information not found on website
2.bb	Power requirements	Rechargeable nickel-cadmium battery; 6F22 9V; 8mA
2.cc	Battery discharge time	80 hours
2.dd	Battery shelf life (months)	Information not found on website
2.ee	Battery recharge time (hours)	Information not found on website
2.ff	Battery replacement procedure	Information not found on website
2.gg	Supplemental charger options	Information not found on website
2.hh	Safety compliances	Information not found on website
2.ii	Radiation safety standards	Information not found on website
2.jj	Length of warranty (months)	Information not found on website
2.kk	Auxiliary equipment	<ul style="list-style-type: none"> • Earphone jack for headphones • De-sensitivity button
2.ll	Manufacturer suggested retail price	Information not found on website
2.mm	Extended maintenance plans	Information not found on website
2.nn	Service contract costs	Information not found on website
2.oo	Other information	<ul style="list-style-type: none"> • < 8 mA operating current • 24KHz operating frequency

RFI Q.#	Survey Question (abbreviated)	Response
Usability/Training		
5.a	Usability validation processes	Information not found on website
5.b	User community data	Information not found on website
5.c	User-group meetings and frequency	Information not found on website
5.d	Typical problems reported	Information not found on website
5.d.i	Resolution to problems	Information not found on website
5.e	Hours of tech. support and location	Information not found on website
5.f	Calibration requirements	Automatic tuning
5.g	Training provided (hours)	Information not found on website

RFI Q.#	Survey Question (abbreviated)	Response
Features and Functions		
6.a	Types of formalize reports	Information not found on website
6.b	Types of on-demand reports	Information not found on website

RFI Q.#	Survey Question (abbreviated)	Response
Performance and Security		
7.a	Average installation time	Information not found on website
7.b	False positive / false negative rates	Information not found on website
7.c	Mean time to failure	Information not found on website
7.d	Percent downtime	Information not found on website
7.e	Data protection mechanisms	Information not found on website
7.f	Database record management	Information not found on website

5.92 Torfino METAL-TEC HS-1500



Figure 92. Torfino METAL-TEC HS-1500

Person-Borne

RFI Q.#	Survey Question (abbreviated)	Response
Vendor Information		
0	Responded to FRN?	Yes
1.a	Name	Torfino Enterprises, Inc.
1.b	Address/phone number	12520 Capital Blvd., STE #401-112, Wake Forest, NC 27587 (800) 867-3466
1.c	Website	www.torfino.com
1.d	Years in business	37 years
1.e	Number and types of customers	Law enforcement, government, federal corrections facilities, military, homeland security, educational institutions, and schools. More than 6,700 customers worldwide
1.f	Manufacturing location(s)	Torfino Enterprises, Inc 12520 Capital Blvd., STE #401-112, Wake Forest, NC 27587

RFI Q.#	Survey Question (abbreviated)	Response
Product Information – Person-borne Contraband Detection		
2.a	Name and model number	METAL-TEC HS-1500
2.b	Primary product purpose	Silent vibrating metal detector for the detection of metallic contraband and weapons.
2.c	Physical dims (HxWxD, inches)	1.30" H x 1.75" W x 7.9" D
2.d	Operational dims (detection area)	No information provided
2.e	Weight (lbs)	0.55 lbs
2.f	Portability (e.g., fixed, handheld)	Handheld

2.g	Intended environment (e.g., indoor)	Indoor or Outdoor
2.h	Operation conditions/limitations	Operating Temperatures: -9.4° C to 54° C Humidity: 98% non-condensing Water resistant: to 1 ATM (33 feet) for one hour
2.i	Ability to detect metal objects	Yes
2.i.i	Types of metals detected	Any and all metals, including titanium, magnesium, mu-metal, liquid mercury, and all nonferrous metals, it can detect aluminum dust which makes up compact CS's or DVD's
2.i.ii	Types of metals NOT detected	Metals in oxide form – Example: Iron Oxide
2.j	Ability to detect non-metal objects	No
2.j.i	Types of non-metals detected	N/A
2.k	Ability to detect in body cavities	Yes; detection field can pass through body tissue and will be able to detect hidden metal objects at the same distance it can detect in open air. If an object can be detected at 2 inches away outside the body, it can detect at the same distance in a body cavity.
2.k.i	Types of body cavities penetrable	Oral, skin folds, etc.
2.l	Ability to detect other contraband	N/A
2.m	Modes of operation	No information provided
2.n	Number of detection areas	No information provided
2.o	Type of detector used	Triaxial detection field, uniformly detects ferrous and nonferrous metals inches away, in all directions regardless of the position relative to the subject. Operating frequency : 360 kHz continuous analog carrier wave
2.p	Minimum object size detectable	0.19" x 0.15"
2.p.i	Size on a person	0.19" x 0.15"
2.p.ii	Size in a body cavity	0.19" x 0.15" Based on detection distance of the object in open air, it can detect at the same distance through objects such as: Clothing, carry bags, belts, body cavities or any other object which is nonmetallic in nature.
2.q	Total inspection time (sec/person)	Initial minimum safe search time: 45 seconds/person
2.r	Penetration depth (inches)	0.25" x 6.0"
2.s	Alert/alarm mechanism	Tactile silent vibration for both alert and low battery indication
2.t	Average time to gen. alarm	Less than 250 milliseconds once target metal is detected
2.u	Privacy safeguards/features	N/A
2.v	Number of rec. operators	One
2.w	Tampering safeguards	N/A
2.x	Sturdiness/fragility of material	Case material: high impact ABS plastic with a tensile strength of 6,800 psi (ASTM D638); Water resistant to 1 ATM (33 ft) for 1 hour
2.y	Ease of storage	Includes a heavy duty poly-pro belt holster with a surface mounting kit allowing the METAL-TEC to be worn on a uniform belt or can be mounted to a fixed position for storage in the prisoner processing area using the included Velcro surface mounting kit and can be converted from one to the other as needed.
2.z	Data management	N/A
2.aa	Onboard memory storage	N/A
2.bb	Power requirements	Standard 9 volt alkaline
2.cc	Battery discharge time	Provides 2,000 average 45 second searches

2.dd	Battery shelf life (months)	12 months
2.ee	Battery recharge time (hours)	N/A
2.ff	Battery replacement procedure	Use one standard 9 volt alkaline battery. Replace using a straight blade screw driver to loosen the two screws on the battery door. The battery can be inserted in either direction as long as the battery terminals are inserted terminals first into the battery compartment opening (non-polarity sensitive).
2.gg	Supplemental charger options	N/A
2.hh	Safety compliances	Regulatory Standards: FCC Part 15 (ID# NJ21200METAL-TEC) Meets Standards: EN 50082-1:1997 harmonized & EN 50081-2:1993 harmonize RoHS Directive: classified under category 9 (monitoring & control instruments)
2.ii	Radiation safety standards	N/A
2.jj	Length of warranty (months)	36 months
2.kk	Auxiliary equipment	None
2.ll	Manufacturer suggested retail price	\$229
2.mm	Extended maintenance plans	Extended service warranty is available at time of purchase, and will extend the warranty an additional 24 months (2 years) for a total of 60 months (5 years)
2.nn	Service contract costs	Cost of an additional extended 24 month warranty is a charge of \$ 69.00
2.oo	Other information	METAL-TEC includes advanced features such as silent tactile vibration, which gives the operator a tactical advantage by not alarming the person being searched or others around them. Other advanced features of the METAL-TEC include its ability to detect <i>any metal object</i> regardless of the type of metal it contains. METAL-TEC can detect any and all metals, including Titanium and all nonferrous metals; it can detect the aluminum dust in compact CD's or DVD's. METAL-TEC also indicates the possible threat level of the object based on the objects mass, can pinpoint the location of the hidden metal object, and indicate the hidden metal objects physical shape and size to help the operator determine the possible threat the metal object may pose. These advanced features help the operator to determine if the metal object is a gun or knife based on its mass and physical shape. METAL-TEC is also useful in opposite sex searches to minimize contact when necessary.

RFI Q.#	Survey Question (abbreviated)	Response
Usability/Training		
5.a	Usability validation processes	METAL-TEC Correspondence Training Course
5.b	User community data	Users send letters from the field regarding positive results obtained using the METAL-TEC products. These "Letters from the Field" are available for viewing on the web site.
5.c	User-group meetings and frequency	N/A
5.d	Typical problems reported	No problems have been reported with the METAL-TEC product over the past 15 years.
5.d.i	Resolution to problems	N/A

5.e	Hours of tech. support and location	9AM-5PM M-F, Corporate offices 561-790-0111
5.f	Calibration requirements	N/A
5.g	Training provided (hours)	Factory Training & Certification Correspondence Course

RFI Q.#	Survey Question (abbreviated)	Response
Features and Functions		
6.a	Types of formalize reports	N/A
6.b	Types of on-demand reports	N/A

RFI Q.#	Survey Question (abbreviated)	Response
Performance and Security		
7.a	Average installation time	About 10 s
7.b	False positive / false negative rates	METAL-TEC's advanced design minimizes false detentions, however the following may be interpreted as a possible false detection. 1 - Continuous vibration - Low battery indication. (Battery voltage has dropped below 5.0 vdc and will vibrate constantly to prevent use of the unit until battery has been replaced. This will prevent a possible false positive or prevent a possible non-detection) 2 - Operating temperature has exceeded specifications. (Operating Temperatures have exceeded the 15 F (- 9.4 C) to + 130 F (+ 54 C) safe operating parameters) 3- Operating the unit when it is extremely wet. (Unit has exceeded the 98% Non-condensing moisture rating and must be dried off before use) 4- Possible electronic failure – users who feel the unit is not functioning properly should immediately discontinue its use, and contact the factory for a RMA # for repair
7.c	Mean time to failure	Approx MBTF is 16,000 hrs
7.d	Percent downtime	N/A
7.e	Data protection mechanisms	N/A
7.f	Database record management	N/A

5.93 Torfino METAL-TEC TE-1400



Figure 93. Torfino METAL-TEC TE-1400

Person-Borne

RFI Q.#	Survey Question (abbreviated)	Response
Vendor Information		
0	Responded to FRN?	Yes
1.a	Name	Torfino Enterprises, Inc.
1.b	Address/phone number	12520 Capital Blvd., STE #401-112, Wake Forest, NC 27587 (800) 867-3466
1.c	Website	www.torfino.com
1.d	Years in business	37 years
1.e	Number and types of customers	Law enforcement, government, federal corrections facilities, military, homeland security, educational institutions, and schools. More than 6,700 customers worldwide
1.f	Manufacturing location(s)	Torfino Enterprises, Inc 12520 Capital Blvd., STE #401-112, Wake Forest, NC 27587

RFI Q.#	Survey Question (abbreviated)	Response
Product Information – Person-borne Contraband Detection		
2.a	Name and model number	METAL-TEC TE-1400
2.b	Primary product purpose	Silent vibrating metal detector for the detection of metallic contraband and weapons.
2.c	Physical dims (HxWxD, inches)	1.30" H x 1.75" W x 7.9" D

2.d	Operational dims (detection area)	No information provided
2.e	Weight (lbs)	0.55 lbs
2.f	Portability (e.g., fixed, handheld)	Handheld
2.g	Intended environment (e.g., indoor)	Indoor or Outdoor
2.h	Operation conditions/limitations	Operating Temperatures: -9.4° C to 54° C Humidity: 98% non-condensing Water resistant: to 1 ATM (33 feet) for one hour
2.i	Ability to detect metal objects	Yes
2.i.i	Types of metals detected	Any and all metals, including titanium, magnesium, mu-metal, liquid mercury, and all nonferrous metals, it can detect aluminum dust which makes up compact CS's or DVD's
2.i.ii	Types of metals NOT detected	Metals in oxide form – Example: Iron Oxide
2.j	Ability to detect non-metal objects	No
2.j.i	Types of non-metals detected	N/A
2.k	Ability to detect in body cavities	Yes; detection field can pass through body tissue and will be able to detect hidden metal objects at the same distance it can detect in open air. If an object can be detected at 2 inches away outside the body, it can detect at the same distance in a body cavity.
2.k.i	Types of body cavities penetrable	Oral, skin folds, etc.
2.l	Ability to detect other contraband	N/A
2.m	Modes of operation	No information provided
2.n	Number of detection areas	No information provided
2.o	Type of detector used	Triaxial detection field, uniformly detects ferrous and nonferrous metals inches away, in all directions regardless of the position relative to the subject. Operating frequency : 360 kHz continuous analog carrier wave
2.p	Minimum object size detectable	0.50" x 0.50"
2.p.i	Size on a person	0.50" x 0.50"
2.p.ii	Size in a body cavity	0.50" x 0.50" Based on detection distance of the object in open air, it can detect at the same distance through objects such as: Clothing, carry bags, belts, body cavities or any other object which is nonmetallic in nature.
2.q	Total inspection time (sec/person)	Initial minimum safe search time: 45 seconds/person
2.r	Penetration depth (inches)	0.25" x 6.0"
2.s	Alert/alarm mechanism	Tactile silent vibration for both alert and low battery indication
2.t	Average time to gen. alarm	Less than 250 milliseconds once target metal is detected
2.u	Privacy safeguards/features	N/A
2.v	Number of rec. operators	One
2.w	Tampering safeguards	N/A
2.x	Sturdiness/fragility of material	Case material: high impact ABS plastic with a tensile strength of 6,800 psi (ASTM D638); Water resistant to 1 ATM (33 ft) for 1 hour
2.y	Ease of storage	Includes a heavy duty poly-pro belt holster with a surface mounting kit allowing the METAL-TEC to be worn on a uniform belt or can be mounted to a fixed position for storage in the prisoner processing area using the included Velcro surface mounting kit and can be converted from one to the other as needed.
2.z	Data management	N/A

2.aa	Onboard memory storage	N/A
2.bb	Power requirements	Standard 9 volt alkaline
2.cc	Battery discharge time	Provides 2,000 average 45 second searches
2.dd	Battery shelf life (months)	1 year
2.ee	Battery recharge time (hours)	N/A
2.ff	Battery replacement procedure	Use one standard 9 volt alkaline battery. Replace using a straight blade screw driver to loosen the two screws on the battery door. The battery can be inserted in either direction as long as the battery terminals are inserted terminals first into the battery compartment opening (non-polarity sensitive).
2.gg	Supplemental charger options	N/A
2.hh	Safety compliances	Regulatory Standards: FCC Part 15 (ID# NJ21200METAL-TEC) Meets Standards: EN 50082-1:1997 harmonized & EN 50081-2:1993 harmonize RoHS Directive: classified under category 9 (monitoring & control instruments)
2.ii	Radiation safety standards	N/A
2.jj	Length of warranty (months)	36 months
2.kk	Auxiliary equipment	None
2.ll	Manufacturer suggested retail price	\$169
2.mm	Extended maintenance plans	Extended service warranty is available at time of purchase, and will extend the warranty an additional 24 months (2 years) for a total of 60 months (5 years)
2.nn	Service contract costs	Cost of an additional extended 24 month warranty is a charge of \$ 69.00
2.oo	Other information	METAL-TEC includes advanced features such as silent tactile vibration, which gives the operator a tactical advantage by not alarming the person being searched or others around them. Other advanced features of the METAL-TEC include its ability to detect <i>any metal object</i> regardless of the type of metal it contains. METAL-TEC can detect any and all metals, including Titanium and all nonferrous metals; it can even detect the aluminum dust in compact CD's or DVD's. METAL-TEC also indicates the possible threat level of the object based on the objects mass, can pinpoint the location of the hidden metal object, and indicate the hidden metal objects physical shape and size to help the operator determine the possible threat the metal object may pose. These advanced features help the operator to determine if the metal object is a gun or knife based on its mass and physical shape. METAL-TEC is also useful in opposite sex searches to minimize contact when necessary.

RFI Q.#	Survey Question (abbreviated)	Response
Usability/Training		
5.a	Usability validation processes	METAL-TEC Correspondence Training Course: This course is exclusively for law enforcement and corrections trainers wishing to implement METAL-TEC within their department. Each person who completes the correspondence training course and mail in test with a

		<p>70% or better grade will become certified by the factory to train the members of their department. Training will cover how to incorporate the METAL-TEC along with the standard hand search allowing one to conduct a more thorough search for concealed weapons on suspects in the field. Learn how to improve officer safety, and reduce liability by implementing the METAL-TEC. Now each officer in a department can conduct a more thorough search for weapons on suspects in the field.</p> <p>Topics Covered:</p> <ul style="list-style-type: none"> • Determining the density of metallic objects being detected (is it a gun, knife or razor blade) • Determining the metal object's shape and size to help identify the object's threat level • How to pinpoint the location of metal objects once detected • How officers can effectively search opposite sex and juvenile suspects using minimal physical contact • Locating weapons concealed behind smaller metal objects found in clothing (such as zippers and bra wires) • How to locate nonmetallic objects using probing and tapping techniques • Addressing the Issues of the "Terry Pat Down " • How to eject objects out of suspect's pockets using the METAL-TEC • Proper testing and utilization of the METAL-TEC • Proper maintenance and battery replacement • Proper implementation of the vehicle mounting kit and belt worn holster <p>The Correspondence Course Includes:</p> <ul style="list-style-type: none"> • Training video on SVCD (may be used when training a department's officers during roll call) • Complete training curriculum manual (manual can be duplicated as hand outs for dept. training) • Course Exam (must be completed, notarized and returned to factory) • Trainers Certificate of Course Completion (certificates issued for a period of 2 years) • Correspondence Course Fee: \$69.00 per trainer
5.b	User community data	Users send letters from the field regarding positive results obtained using the METAL-TEC products. These "Letters from the Field" are available for viewing on the web site.
5.c	User-group meetings and frequency	N/A
5.d	Typical problems reported	No problems have been reported with the product over the past 15 years
5.d.i	Resolution to problems	N/A
5.e	Hours of tech. support and location	9:00 am through 5:00 pm, Mon – Fri
5.f	Calibration requirements	No information provided
5.g	Training provided (hours)	Factory Training & Certification Correspondence Course: METAL-TEC Factory Training & Certification course is available as a correspondence course. The

		Correspondence course package which includes a Video on CD, Workbook, 10 question exam, and upon successful completion of the course, students will receive a Certificate good for 2 years. The complete correspondence course can be ordered for \$69.
--	--	---

RFI Q.#	Survey Question (abbreviated)	Response
Features and Functions		
6.a	Types of formalize reports	N/A
6.b	Types of on-demand reports	N/A

RFI Q.#	Survey Question (abbreviated)	Response
Performance and Security		
7.a	Average installation time	About 10 s
7.b	False positive / false negative rates	METAL-TEC's advanced design minimizes false detentions, however the following may be interpreted as a possible false detection. 1 - Continuous vibration - Low battery indication. (Battery voltage has dropped below 5.0 vdc and will vibrate constantly to prevent use of the unit until battery has been replaced. This will prevent a possible false positive or prevent a possible non-detection) 2 - Operating temperature has exceeded specifications. (Operating Temperatures have exceeded the 15 F (- 9.4 C) to + 130 F (+ 54 C) safe operating parameters) 3- Operating the unit when it is extremely wet. (Unit has exceeded the 98% Non-condensing moisture rating and must be dried off before use) 4- Possible electronic failure - If the unit is not functioning properly, immediately discontinue its use, and contact the factory for a RMA # for repair
7.c	Mean time to failure	Approx MBTF is 16,000 hrs
7.d	Percent downtime	N/A
7.e	Data protection mechanisms	N/A
7.f	Database record management	N/A

5.94 Vidisco BoltX



Figure 94. Vidisco BoltX

Environmental

RFI Q.#	Survey Question (abbreviated)	Response
Vendor Information		
0	Responded to FRN?	Yes
1.a	Name	Vidisco Ltd.
1.b	Address/phone number	Wilson Boulevard, Suite 700, Arlington, VA 22201 (703) 820-5204
1.c	Website	www.vidisco.com
1.d	Years in business	28 years
1.e	Number and types of customers	Hundreds of customers in over 70 countries worldwide
1.f	Manufacturing location(s)	Haharoshet St. 32, Or Yehuda 6037598, Israel

RFI Q.#	Survey Question (abbreviated)	Response
Product Information – Environmental-borne Contraband Detection		
4.a	Name and model number	BoltX
4.b	Primary product purpose	Portable X-ray system (not to be used on people)
4.c	Physical dims (HxWxD, inches)	7.6" H x 4.9" W x 1.3" D
4.d	Operational dims (detection area)	No information provided
4.e	Weight (lbs)	3 lbs and 4.8 oz

4.f	Portability (e.g., fixed, handheld)	Portable
4.g	Operation conditions/limitations	32°F to 104°F
4.h	Ability to detect metal objects	Yes
4.h.i	Types of metals detected	No information provided
4.h.ii	Types of metals NOT detected	No information provided
4.i	Ability to detect non-metal objects	Yes, with the XR-DE Plus module
4.i.i	Types of non-metals detected	Organic materials
4.j	Ability to detect other contraband	No information provided
4.k	Modes of operation	No information provided
4.l	Number of detection areas	No information provided
4.m	Type of detector used	X-ray
4.n	Minimum object size detectable	2 mm (0.08 in) lead behind 60 mm (2.4 in) of steel
4.o	Maximum object size detectable	No information provided
4.p	Alert/alarm mechanism	No information provided
4.q	Average time to gen. alarm	No information provided
4.r	Number of rec. operators	Only one, the user
4.s	Tampering safeguards	No information provided
4.t	Sturdiness/fragility of material	No information provided
4.u	Ease of storage	Can be stored in rugged case/backback
4.v	Data management	No information provided
4.w	Onboard memory storage	No information provided
4.x	Power requirements	110/220 V, 12 V via Car AC/DC power inverter
4.y	Battery discharge time	5 hours
4.z	Battery shelf life (months)	No information provided
4.aa	Battery recharge time (hours)	No information provided
4.bb	Battery replacement procedure	No information provided
4.cc	Supplemental charger options	No information provided
4.dd	Safety compliances	ISO 9001 certified
4.ee	Radiation safety standards	No information provided
4.ff	Length of warranty (months)	24 month warranty
4.gg	Auxiliary equipment	High Power WiFi, SliderXL, Rugged Tablet Control Unit, SmartX 150m extension cable reel, Imager Holder, External Camera
4.hh	Manufacturer suggested retail price	\$44-52k
4.ii	Extended maintenance plans	No information provided
4.jj	Service contract costs	No information provided
4.kk	Other information	No information provided

RFI Q.#	Survey Question (abbreviated)	Response
Usability/Training		
5.a	Usability validation processes	All Vidisco systems and products pass a quality check before approved for shipping to the customer.
5.b	User community data	No information provided
5.c	User-group meetings and frequency	No information provided
5.d	Typical problems reported	No information provided
5.d.i	Resolution to problems	No information provided
5.e	Hours of tech. support and location	Customer service and technical support are provided in the US at Delta Xray and globally at the Vidisco facility in Israel.
5.f	Calibration requirements	No information provided
5.g	Training provided (hours)	Vidisco offers a 2-day hands on training course (charges apply) at the customer's facility or at Vidisco offices per

		the customer's choice.
--	--	------------------------

RFI Q.#	Survey Question (abbreviated)	Response
Features and Functions		
6.a	Types of formalize reports	No information provided
6.b	Types of on-demand reports	No information provided

RFI Q.#	Survey Question (abbreviated)	Response
Performance and Security		
7.a	Average installation time	No information provided
7.b	False positive / false negative rates	No information provided
7.c	Mean time to failure	No information provided
7.d	Percent downtime	No information provided
7.e	Data protection mechanisms	No information provided
7.f	Database record management	No information provided

5.95 Vidisco FlashX



Figure 95. Vidisco FlashX

Environmental

RFI Q.#	Survey Question (abbreviated)	Response
Vendor Information		
0	Responded to FRN?	Yes
1.a	Name	Vidisco Ltd.
1.b	Address/phone number	Wilson Boulevard, Suite 700, Arlington, VA 22201 (703) 820-5204
1.c	Website	www.vidisco.com
1.d	Years in business	28 years
1.e	Number and types of customers	Hundreds of customers in over 70 countries worldwide
1.f	Manufacturing location(s)	Haharoshet St. 32, Or Yehuda 6037598, Israel

RFI Q.#	Survey Question (abbreviated)	Response
Product Information – Environmental-borne Contraband Detection		
4.a	Name and model number	FlashX
4.b	Primary product purpose	Portable X-ray system (not to be used on people)
4.c	Physical dims (HxWxD, inches)	18.3" H x 19.2" W x 1" D
4.d	Operational dims (detection area)	No information provided
4.e	Weight (lbs)	10 lbs and 9.6 oz
4.f	Portability (e.g., fixed, handheld)	Portable
4.g	Operation conditions/limitations	32°F to 104°F (special config -4°F to 104°F)
4.h	Ability to detect metal objects	Yes
4.h.i	Types of metals detected	No information provided
4.h.ii	Types of metals NOT detected	No information provided
4.i	Ability to detect non-metal objects	Yes, with the XR-DE Plus module
4.i.i	Types of non-metals detected	Organic materials

4.j	Ability to detect other contraband	No information provided
4.k	Modes of operation	No information provided
4.l	Number of detection areas	No information provided
4.m	Type of detector used	X-ray system
4.n	Minimum object size detectable	2 mm (0.08 in) lead behind 80 mm (3.1 in) of steel
4.o	Maximum object size detectable	No information provided
4.p	Alert/alarm mechanism	No information provided
4.q	Average time to gen. alarm	No information provided
4.r	Number of rec. operators	Only one, the user
4.s	Tampering safeguards	No information provided
4.t	Sturdiness/fragility of material	No information provided
4.u	Ease of storage	Can be stored in rugged case/backback
4.v	Data management	No information provided
4.w	Onboard memory storage	No information provided
4.x	Power requirements	110/220 V, 12 V via Car AC/DC power inverter
4.y	Battery discharge time	5 hours
4.z	Battery shelf life (months)	No information provided
4.aa	Battery recharge time (hours)	No information provided
4.bb	Battery replacement procedure	No information provided
4.cc	Supplemental charger options	No information provided
4.dd	Safety compliances	ISO 9001 certified
4.ee	Radiation safety standards	No information provided
4.ff	Length of warranty (months)	24 month warranty
4.gg	Auxiliary equipment	FlashHigh Power WiFi, SliderXL, Rugged Tablet Control Unit, SmartX 150m extension cable reel, Imager Holder, External Camera
4.hh	Manufacturer suggested retail price	\$69-\$121k CR (computed radiography) system \$25k
4.ii	Extended maintenance plans	No information provided
4.jj	Service contract costs	No information provided
4.kk	Other information	No information provided

RFI Q.#	Survey Question (abbreviated)	Response
Usability/Training		
5.a	Usability validation processes	All Vidisco systems and products pass a quality check before approved for shipping to the customer.
5.b	User community data	No information provided
5.c	User-group meetings and frequency	No information provided
5.d	Typical problems reported	No information provided
5.d.i	Resolution to problems	No information provided
5.e	Hours of tech. support and location	Customer service and technical support are provided in the US at Delta Xray and globally at the Vidisco facility in Israel.
5.f	Calibration requirements	No information provided
5.g	Training provided (hours)	Vidisco offers a 2-day hands on training course (charges apply) at the customer's facility or at Vidisco offices per the customer's choice.

RFI Q.#	Survey Question (abbreviated)	Response
Features and Functions		
6.a	Types of formalize reports	No information provided

6.b	Types of on-demand reports	No information provided
-----	----------------------------	-------------------------

RFI Q.#	Survey Question (abbreviated)	Response
Performance and Security		
7.a	Average installation time	No information provided
7.b	False positive / false negative rates	No information provided
7.c	Mean time to failure	No information provided
7.d	Percent downtime	No information provided
7.e	Data protection mechanisms	No information provided
7.f	Database record management	No information provided

5.96 Vidisco FoXraylle VCU-10e



Figure 96. Vidisco FoXraylle VCU-10e

Environmental

RFI Q.#	Survey Question (abbreviated)	Response
Vendor Information		
0	Responded to FRN?	Yes
1.a	Name	Vidisco Ltd.
1.b	Address/phone number	Wilson Boulevard, Suite 700, Arlington, VA 22201 (703) 820-5204
1.c	Website	www.vidisco.com
1.d	Years in business	28 years
1.e	Number and types of customers	Hundreds of customers in over 70 countries worldwide
1.f	Manufacturing location(s)	Haharoshet St. 32, Or Yehuda 6037598, Israel

RFI Q.#	Survey Question (abbreviated)	Response
Product Information – Environmental-borne Contraband Detection		
4.a	Name and model number	FoXraylle VCU-10e
4.b	Primary product purpose	Portable X-ray system (not to be used on people)
4.c	Physical dims (HxWxD, inches)	14.9" H x 10.2" W x 5.5" D
4.d	Operational dims (detection area)	No information provided
4.e	Weight (lbs)	12 lbs and 3.2 oz
4.f	Portability (e.g., fixed, handheld)	Portable
4.g	Operation conditions/limitations	32°F to 104°F
4.h	Ability to detect metal objects	Yes
4.h.i	Types of metals detected	No information provided

4.h.ii	Types of metals NOT detected	No information provided
4.i	Ability to detect non-metal objects	No
4.i.i	Types of non-metals detected	Organic materials
4.j	Ability to detect other contraband	No information provided
4.k	Modes of operation	No information provided
4.l	Number of detection areas	No information provided
4.m	Type of detector used	CCD immediate image capture, no moving parts, no scanning
4.n	Minimum object size detectable	2 mm (0.08 in) lead behind 30 mm (1.2 in) of steel
4.o	Maximum object size detectable	No information provided
4.p	Alert/alarm mechanism	No information provided
4.q	Average time to gen. alarm	No information provided
4.r	Number of rec. operators	Only one, the user
4.s	Tampering safeguards	No information provided
4.t	Sturdiness/fragility of material	No information provided
4.u	Ease of storage	Can be stored in rugged case/backback
4.v	Data management	No information provided
4.w	Onboard memory storage	No information provided
4.x	Power requirements	110/220 V, 12 V via Car AC/DC power inverter
4.y	Battery discharge time	5 hours
4.z	Battery shelf life (months)	No information provided
4.aa	Battery recharge time (hours)	No information provided
4.bb	Battery replacement procedure	No information provided
4.cc	Supplemental charger options	No information provided
4.dd	Safety compliances	ISO 9001 certified
4.ee	Radiation safety standards	No information provided
4.ff	Length of warranty (months)	24 month warranty
4.gg	Auxiliary equipment	Tablet Control Unit, 150m extension cable reel, External Camera
4.hh	Manufacturer suggested retail price	\$16-19k
4.ii	Extended maintenance plans	No information provided
4.jj	Service contract costs	No information provided
4.kk	Other information	No information provided

RFI Q.#	Survey Question (abbreviated)	Response
Usability/Training		
5.a	Usability validation processes	All Vidisco systems and products pass a quality check before approved for shipping to the customer.
5.b	User community data	No information provided
5.c	User-group meetings and frequency	No information provided
5.d	Typical problems reported	No information provided
5.d.i	Resolution to problems	No information provided
5.e	Hours of tech. support and location	Customer service and technical support are provided in the US at Delta Xray and globally at the Vidisco facility in Israel.
5.f	Calibration requirements	No information provided
5.g	Training provided (hours)	Vidisco offers a 2-day hands on training course (charges apply) at the customer's facility or at Vidisco offices per the customer's choice.

RFI Q.#	Survey Question (abbreviated)	Response
Features and Functions		
6.a	Types of formalize reports	No information provided
6.b	Types of on-demand reports	No information provided

RFI Q.#	Survey Question (abbreviated)	Response
Performance and Security		
7.a	Average installation time	No information provided
7.b	False positive / false negative rates	No information provided
7.c	Mean time to failure	No information provided
7.d	Percent downtime	No information provided
7.e	Data protection mechanisms	No information provided
7.f	Database record management	No information provided

5.97 Vidisco FoXraylle VCU-16e



Figure 97. Vidisco FoXraylle VCU-16e

Environmental

RFI Q.#	Survey Question (abbreviated)	Response
Vendor Information		
0	Responded to FRN?	Yes
1.a	Name	Vidisco Ltd.
1.b	Address/phone number	Wilson Boulevard, Suite 700, Arlington, VA 22201 (703) 820-5204
1.c	Website	www.vidisco.com
1.d	Years in business	28 years
1.e	Number and types of customers	Hundreds of customers in over 70 countries worldwide
1.f	Manufacturing location(s)	Haharoshet St. 32, Or Yehuda 6037598, Israel

RFI Q.#	Survey Question (abbreviated)	Response
Product Information – Environmental-borne Contraband Detection		
4.a	Name and model number	FoXraylle VCU-16e
4.b	Primary product purpose	Portable X-ray system (not to be used on people)
4.c	Physical dims (HxWxD, inches)	22" H x 16" W x 8.2" D
4.d	Operational dims (detection area)	No information provided
4.e	Weight (lbs)	23 lbs and 12.8 oz
4.f	Portability (e.g., fixed, handheld)	Portable
4.g	Operation conditions/limitations	32°F to 104°F
4.h	Ability to detect metal objects	Yes
4.h.i	Types of metals detected	No information provided

4.h.ii	Types of metals NOT detected	No information provided
4.i	Ability to detect non-metal objects	No
4.i.i	Types of non-metals detected	Organic materials
4.j	Ability to detect other contraband	No information provided
4.k	Modes of operation	No information provided
4.l	Number of detection areas	No information provided
4.m	Type of detector used	CCD immediate image capture, no moving parts, no scanning
4.n	Minimum object size detectable	2 mm (0.08 in) lead behind 30 mm (1.2 in) of steel
4.o	Maximum object size detectable	No information provided
4.p	Alert/alarm mechanism	No information provided
4.q	Average time to gen. alarm	No information provided
4.r	Number of rec. operators	Only one, the user
4.s	Tampering safeguards	No information provided
4.t	Sturdiness/fragility of material	No information provided
4.u	Ease of storage	Can be stored in rugged case/backback
4.v	Data management	No information provided
4.w	Onboard memory storage	No information provided
4.x	Power requirements	110/220 V, 12 V via Car AC/DC power inverter
4.y	Battery discharge time	5 hours
4.z	Battery shelf life (months)	No information provided
4.aa	Battery recharge time (hours)	No information provided
4.bb	Battery replacement procedure	No information provided
4.cc	Supplemental charger options	No information provided
4.dd	Safety compliances	ISO 9001 certified
4.ee	Radiation safety standards	No information provided
4.ff	Length of warranty (months)	24 month warranty
4.gg	Auxiliary equipment	Tablet Control Unit, 150m extension cable reel, External Camera
4.hh	Manufacturer suggested retail price	\$19-20k
4.ii	Extended maintenance plans	No information provided
4.jj	Service contract costs	No information provided
4.kk	Other information	No information provided

RFI Q.#	Survey Question (abbreviated)	Response
Usability/Training		
5.a	Usability validation processes	All Vidisco systems and products pass a quality check before approved for shipping to the customer.
5.b	User community data	No information provided
5.c	User-group meetings and frequency	No information provided
5.d	Typical problems reported	No information provided
5.d.i	Resolution to problems	No information provided
5.e	Hours of tech. support and location	Customer service and technical support are provided in the US at Delta Xray and globally at the Vidisco facility in Israel.
5.f	Calibration requirements	No information provided
5.g	Training provided (hours)	Vidisco offers a 2-day hands on training course (charges apply) at the customer's facility or at Vidisco offices per the customer's choice.

RFI Q.#	Survey Question (abbreviated)	Response
Features and Functions		
6.a	Types of formalize reports	No information provided
6.b	Types of on-demand reports	No information provided

RFI Q.#	Survey Question (abbreviated)	Response
Performance and Security		
7.a	Average installation time	No information provided
7.b	False positive / false negative rates	No information provided
7.c	Mean time to failure	No information provided
7.d	Percent downtime	No information provided
7.e	Data protection mechanisms	No information provided
7.f	Database record management	No information provided

5.98 Vidisco RayzorX



Figure 98. Vidisco RayzorX

Environmental

RFI Q.#	Survey Question (abbreviated)	Response
Vendor Information		
0	Responded to FRN?	Yes
1.a	Name	Vidisco Ltd.
1.b	Address/phone number	Wilson Boulevard, Suite 700, Arlington, VA 22201 (703) 820-5204
1.c	Website	www.vidisco.com
1.d	Years in business	28 years
1.e	Number and types of customers	Hundreds of customers in over 70 countries worldwide
1.f	Manufacturing location(s)	Haharoshet St. 32, Or Yehuda 6037598, Israel

RFI Q.#	Survey Question (abbreviated)	Response
Product Information – Environmental-borne Contraband Detection		
4.a	Name and model number	RayzorX
4.b	Primary product purpose	Portable X-ray system (not to be used on people)
4.c	Physical dims (HxWxD, inches)	14.2" H x 13" W x 0.5" D
4.d	Operational dims (detection area)	No information provided
4.e	Weight (lbs)	7 lbs and 11.2 oz
4.f	Portability (e.g., fixed, handheld)	Portable
4.g	Operation conditions/limitations	32°F to 104°F (special config -4°F to 104°F)
4.h	Ability to detect metal objects	Yes
4.h.i	Types of metals detected	No information provided
4.h.ii	Types of metals NOT detected	No information provided
4.i	Ability to detect non-metal objects	Yes, with the XR-DE Plus module
4.i.i	Types of non-metals detected	Organic materials
4.j	Ability to detect other contraband	No information provided

4.k	Modes of operation	No information provided
4.l	Number of detection areas	No information provided
4.m	Type of detector used	Amorphous Silicon (a-Si) Digital Detector Array (DDA) Flat Panel Imager
4.n	Minimum object size detectable	2 mm (0.08 in) lead behind 70 mm (2.8 in) of steel
4.o	Maximum object size detectable	No information provided
4.p	Alert/alarm mechanism	No information provided
4.q	Average time to gen. alarm	No information provided
4.r	Number of rec. operators	Only one, the user
4.s	Tampering safeguards	No information provided
4.t	Sturdiness/fragility of material	No information provided
4.u	Ease of storage	Can be stored in rugged case/backback
4.v	Data management	No information provided
4.w	Onboard memory storage	No information provided
4.x	Power requirements	110/220 V, 12 V via Car AC/DC power inverter
4.y	Battery discharge time	5 hours
4.z	Battery shelf life (months)	No information provided
4.aa	Battery recharge time (hours)	No information provided
4.bb	Battery replacement procedure	No information provided
4.cc	Supplemental charger options	No information provided
4.dd	Safety compliances	ISO 9001 certified
4.ee	Radiation safety standards	No information provided
4.ff	Length of warranty (months)	24 month warranty
4.gg	Auxiliary equipment	High Power WiFi, SliderXL, Rugged Tablet Control Unit, SmartX 150m extension cable reel, Imager Holder, External Camera
4.hh	Manufacturer suggested retail price	\$65-72k
4.ii	Extended maintenance plans	No information provided
4.jj	Service contract costs	No information provided
4.kk	Other information	No information provided

RFI Q.#	Survey Question (abbreviated)	Response
Usability/Training		
5.a	Usability validation processes	All Vidisco systems and products pass a quality check before approved for shipping to the customer.
5.b	User community data	No information provided
5.c	User-group meetings and frequency	No information provided
5.d	Typical problems reported	No information provided
5.d.i	Resolution to problems	No information provided
5.e	Hours of tech. support and location	Customer service and technical support are provided in the US at Delta Xray and globally at the Vidisco facility in Israel.
5.f	Calibration requirements	No information provided
5.g	Training provided (hours)	Vidisco offers a 2-day hands on training course (charges apply) at the customer's facility or at Vidisco offices per the customer's choice.

RFI Q.#	Survey Question (abbreviated)	Response
Features and Functions		
6.a	Types of formalize reports	No information provided
6.b	Types of on-demand reports	No information provided

RFI Q.#	Survey Question (abbreviated)	Response
Performance and Security		
7.a	Average installation time	No information provided
7.b	False positive / false negative rates	No information provided
7.c	Mean time to failure	No information provided
7.d	Percent downtime	No information provided
7.e	Data protection mechanisms	No information provided
7.f	Database record management	No information provided

5.99 Vidisco SparX



Figure 99. Vidisco SparX

Environmental

RFI Q.#	Survey Question (abbreviated)	Response
Vendor Information		
0	Responded to FRN?	Yes
1.a	Name	Vidisco Ltd.
1.b	Address/phone number	Wilson Boulevard, Suite 700, Arlington, VA 22201 (703) 820-5204
1.c	Website	www.vidisco.com
1.d	Years in business	28 years
1.e	Number and types of customers	Hundreds of customers in over 70 countries worldwide
1.f	Manufacturing location(s)	Haharoshet St. 32, Or Yehuda 6037598, Israel

RFI Q.#	Survey Question (abbreviated)	Response
Product Information – Environmental-borne Contraband Detection		
4.a	Name and model number	SparX
4.b	Primary product purpose	Portable X-ray system (not to be used on people)
4.c	Physical dims (HxWxD, inches)	15.5" H x 12.6" W x 0.7" D
4.d	Operational dims (detection area)	No information provided
4.e	Weight (lbs)	7 lbs and 4.3 oz
4.f	Portability (e.g., fixed, handheld)	Portable
4.g	Operation conditions/limitations	32°F to 104°F

4.h	Ability to detect metal objects	Yes
4.h.i	Types of metals detected	No information provided
4.h.ii	Types of metals NOT detected	No information provided
4.i	Ability to detect non-metal objects	Yes, with the XR-DE Plus module
4.i.i	Types of non-metals detected	Organic materials
4.j	Ability to detect other contraband	No information provided
4.k	Modes of operation	No information provided
4.l	Number of detection areas	No information provided
4.m	Type of detector used	Amorphous Si Gadox
4.n	Minimum object size detectable	2 mm (0.08 in) lead behind 75 mm (3.0 in) of steel
4.o	Maximum object size detectable	No information provided
4.p	Alert/alarm mechanism	No information provided
4.q	Average time to gen. alarm	No information provided
4.r	Number of rec. operators	Only one, the user
4.s	Tampering safeguards	No information provided
4.t	Sturdiness/fragility of material	No information provided
4.u	Ease of storage	Can be stored in rugged case/backback
4.v	Data management	No information provided
4.w	Onboard memory storage	No information provided
4.x	Power requirements	110/220 V, 12 V via Car AC/DC power inverter
4.y	Battery discharge time	5 hours
4.z	Battery shelf life (months)	No information provided
4.aa	Battery recharge time (hours)	No information provided
4.bb	Battery replacement procedure	No information provided
4.cc	Supplemental charger options	No information provided
4.dd	Safety compliances	ISO 9001 certified
4.ee	Radiation safety standards	No information provided
4.ff	Length of warranty (months)	24 month warranty
4.gg	Auxiliary equipment	High Power WiFi, SliderXL, Rugged Tablet Control Unit, SmartX 150m extension cable reel, Imager Holder, External Camera
4.hh	Manufacturer suggested retail price	\$53-58k
4.ii	Extended maintenance plans	No information provided
4.jj	Service contract costs	No information provided
4.kk	Other information	No information provided

RFI Q.#	Survey Question (abbreviated)	Response
Usability/Training		
5.a	Usability validation processes	All Vidisco systems and products pass a quality check before approved for shipping to the customer.
5.b	User community data	No information provided
5.c	User-group meetings and frequency	No information provided
5.d	Typical problems reported	No information provided
5.d.i	Resolution to problems	No information provided
5.e	Hours of tech. support and location	Customer service and technical support are provided in the US at Delta Xray and globally at the Vidisco facility in Israel.
5.f	Calibration requirements	No information provided
5.g	Training provided (hours)	Vidisco offers a 2-day hands on training course (charges apply) at the customer's facility or at Vidisco offices per the customer's choice.

RFI Q.#	Survey Question (abbreviated)	Response
Features and Functions		
6.a	Types of formalize reports	No information provided
6.b	Types of on-demand reports	No information provided

RFI Q.#	Survey Question (abbreviated)	Response
Performance and Security		
7.a	Average installation time	No information provided
7.b	False positive / false negative rates	No information provided
7.c	Mean time to failure	No information provided
7.d	Percent downtime	No information provided
7.e	Data protection mechanisms	No information provided
7.f	Database record management	No information provided

5.100 ViewSystems ViewScan



Figure 100. ViewSystems ViewScan

Person-Borne

RFI Q.#	Survey Question (abbreviated)	Response
Vendor Information		
0	Responded to FRN?	No
1.a	Name	ViewSystems, Inc
1.b	Address/phone number	1550 Caton Center Drive, Suite E, Baltimore, MD 21227 1(877) 843-9462
1.c	Website	www.viewsystems.com
1.d	Years in business	18
1.e	Number and types of customers	Information not found on website
1.f	Manufacturing location(s)	Information not found on website

RFI Q.#	Survey Question (abbreviated)	Response
Product Information – Person-borne Contraband Detection		
2.a	Name and model number	ViewScan Concealed Weapons Detection System
2.b	Primary product purpose	Walkthrough concealed weapons detection system (CWD).
2.c	Physical dims (HxWxD, inches)	82" D x 32" W x 63" H
2.d	Operational dims (detection area)	32" walkthrough space between monoliths feet are 20"
2.e	Weight (lbs)	56 lbs
2.f	Portability (e.g., fixed, handheld)	Fixed but movable
2.g	Intended environment (e.g., indoor)	Information not found on website

2.h	Operation conditions/limitations	Operating Temperature: 5°C to 40°C (41 to 104 °F) Storage Temperature: 0°C to 60°C (32 to 140 °F) Humidity: 5-95% (non-condensing)
2.i	Ability to detect metal objects	Yes
2.i.i	Types of metals detected	Ferrous and non-ferrous
2.i.ii	Types of metals NOT detected	Information not found on website
2.j	Ability to detect non-metal objects	Information not found on website
2.j.i	Types of non-metals detected	Information not found on website
2.k	Ability to detect in body cavities	Yes
2.k.i	Types of body cavities penetrable	Information not found on website
2.l	Ability to detect other contraband	Information not found on website
2.m	Modes of operation	Adjustable linear sensitivity settings
2.n	Number of detection areas	Information not found on website
2.o	Type of detector used	The system uses advanced magnetic sensors with on-board digital signal processing
2.p	Minimum object size detectable	Information not found on website
2.p.i	Size on a person	Information not found on website
2.p.ii	Size in a body cavity	Information not found on website
2.q	Total inspection time (sec/person)	Information not found on website
2.r	Penetration depth (inches)	Information not found on website
2.s	Alert/alarm mechanism	Audible alarm with visual indication of location of threat objects on subject
2.t	Average time to gen. alarm	Information not found on website
2.u	Privacy safeguards/features	Live image can be replaced and threat objects will be indicated by red dots over a generic caricature
2.v	Number of rec. operators	Information not found on website
2.w	Tampering safeguards	Information not found on website
2.x	Sturdiness/fragility of material	2 Powder-coated aluminum monoliths
2.y	Ease of storage	Easily movable
2.z	Data management	Every person passing through the portal is scanned and archived with the following data: snapshot image of person, date and time, threshold settings, sensor readings, and graphical display
2.aa	Onboard memory storage	Information not found on website
2.bb	Power requirements	110/220 VAC; 3.5 A
2.cc	Battery discharge time	4 hours
2.dd	Battery shelf life (months)	Information not found on website
2.ee	Battery recharge time (hours)	Information not found on website
2.ff	Battery replacement procedure	Information not found on website
2.gg	Supplemental charger options	Information not found on website
2.hh	Safety compliances	FAA detection Specifications, CE Mark ADA compliant Low Voltage, No electromagnetic emissions, no interference with medical implants, safe for pregnant women
2.ii	Radiation safety standards	No electromagnetic emissions, no interference with medical implants, safe for pregnant women
2.jj	Length of warranty (months)	Information not found on website
2.kk	Auxiliary equipment	<ul style="list-style-type: none"> • Graphical user interface (GUI) • Image and data archiving • Optional 4 hour battery • Quickly prints evidence • Camera can be mounted to unit • USB input

		<ul style="list-style-type: none"> • LAN 10/ 100 Base-T Ethernet • Workstation: notebook computer, CD ROM burner, network and printer ports, and OEM Windows OS
2.ii	Manufacturer suggested retail price	Information not found on website
2.mm	Extended maintenance plans	Information not found on website
2.nn	Service contract costs	Information not found on website
2.oo	Other information	<ul style="list-style-type: none"> • Locates and visually indicates threat objects • Reduces false alarms • Faster throughput than conventional metal detectors • Safe for medical devices such as pacemakers • Designated by USDHS as a Qualified Anti-Terrorism Technology (QATT)

RFI Q.#	Survey Question (abbreviated)	Response
Usability/Training		
5.a	Usability validation processes	Security Market surveys
5.b	User community data	Information not found on website
5.c	User-group meetings and frequency	Information not found on website
5.d	Typical problems reported	Information not found on website
5.d.i	Resolution to problems	Information not found on website
5.e	Hours of tech. support and location	Information not found on website
5.f	Calibration requirements	Information not found on website
5.g	Training provided (hours)	Information not found on website

RFI Q.#	Survey Question (abbreviated)	Response
Features and Functions		
6.a	Types of formalize reports	Customizable reports
6.b	Types of on-demand reports	Customizable reports

RFI Q.#	Survey Question (abbreviated)	Response
Performance and Security		
7.a	Average installation time	Information not found on website
7.b	False positive / false negative rates	Low rates
7.c	Mean time to failure	Information not found on website
7.d	Percent downtime	Information not found on website
7.e	Data protection mechanisms	Information not found on website
7.f	Database record management	Archives data, integrates with View's Positive ID Management System (network and printer ports)

5.101 ViewSystems ViewScan Ultralite



Figure 101. ViewSystems ViewScan Ultralite

Person-Borne

RFI Q.#	Survey Question (abbreviated)	Response
Vendor Information		
0	Responded to FRN?	No
1.a	Name	ViewSystems, Inc
1.b	Address/phone number	1550 Caton Center Drive, Suite E, Baltimore, MD 21227 1(877) 843-9462
1.c	Website	www.viewsystems.com
1.d	Years in business	18
1.e	Number and types of customers	Information not found on website
1.f	Manufacturing location(s)	Information not found on website

RFI Q.#	Survey Question (abbreviated)	Response
Product Information – Person-borne Contraband Detection		
2.a	Name and model number	ViewScan Ultralite
2.b	Primary product purpose	Portable walk-through concealed weapons detection system (CWD).
2.c	Physical dims (HxWxD, inches)	80" H x 49" W
2.d	Operational dims (detection area)	32" walkthrough space between monoliths
2.e	Weight (lbs)	23 lbs
2.f	Portability (e.g., fixed, handheld)	Fixed but movable
2.g	Intended environment (e.g., indoor)	Information not found on website
2.h	Operation conditions/limitations	Operating Temperature: 5°C to 40°C (41 to 104 °F) Storage Temperature: 0°C to 60°C (32 to 140 °F) Humidity: 5-95% (non-condensing)

2.i	Ability to detect metal objects	Yes
2.i.i	Types of metals detected	Ferrous and non-ferrous
2.i.ii	Types of metals NOT detected	Information not found on website
2.j	Ability to detect non-metal objects	Information not found on website
2.j.i	Types of non-metals detected	Information not found on website
2.k	Ability to detect in body cavities	Yes
2.k.i	Types of body cavities penetrable	Information not found on website
2.l	Ability to detect other contraband	Information not found on website
2.m	Modes of operation	Adjustable linear sensitivity settings
2.n	Number of detection areas	Information not found on website
2.o	Type of detector used	The system uses advanced magnetic sensors with on-board digital signal processing
2.p	Minimum object size detectable	Information not found on website
2.p.i	Size on a person	Information not found on website
2.p.ii	Size in a body cavity	Information not found on website
2.q	Total inspection time (sec/person)	Information not found on website
2.r	Penetration depth (inches)	Information not found on website
2.s	Alert/alarm mechanism	Audible alarm with visual indication of location of threat objects on subject
2.t	Average time to gen. alarm	Information not found on website
2.u	Privacy safeguards/features	Live image can be replaced and threat objects will be indicated by red dots over a generic caricature
2.v	Number of rec. operators	Information not found on website
2.w	Tampering safeguards	Information not found on website
2.x	Sturdiness/fragility of material	2 Powder-coated aluminum monoliths
2.y	Ease of storage	Portable, folds in half for easy transport with an SKB travel case
2.z	Data management	Every person passing through the portal is scanned and archived with the following data: snapshot image of person, date and time, threshold settings, sensor readings, and graphical display
2.aa	Onboard memory storage	Information not found on website
2.bb	Power requirements	110/220 VAC; 1.5 A
2.cc	Battery discharge time	4 hours with an optional rechargeable 8.5 hour battery
2.dd	Battery shelf life (months)	Information not found on website
2.ee	Battery recharge time (hours)	Information not found on website
2.ff	Battery replacement procedure	Information not found on website
2.gg	Supplemental charger options	Information not found on website
2.hh	Safety compliances	FAA detection Specifications, CE Mark ADA compliant Low Voltage, No electromagnetic emissions, no interference with medical implants, safe for pregnant women
2.ii	Radiation safety standards	No electromagnetic emissions, no interference with medical implants, safe for pregnant women
2.jj	Length of warranty (months)	Information not found on website
2.kk	Auxiliary equipment	<ul style="list-style-type: none"> • Easy to use intuitive graphical interface (GUI) • Image and data archiving • Optional 4 hour battery • Quickly prints evidence • Camera can be mounted to unit • USB input • LAN 10/ 100 Base-T Ethernet • PC-based software

		<ul style="list-style-type: none"> Workstation: notebook computer, CD ROM burner, network and printer ports, and OEM Windows OS
2.ii	Manufacturer suggested retail price	Information not found on website
2.mm	Extended maintenance plans	Information not found on website
2.nn	Service contract costs	Information not found on website
2.oo	Other information	<ul style="list-style-type: none"> Locates and visually indicates threat objects Reduces false alarms Faster throughput than conventional metal detectors Safe for medical devices such as pacemakers Designated by USDHS as a Qualified Anti-Terrorism Technology (QATT)

RFI Q.#	Survey Question (abbreviated)	Response
Usability/Training		
5.a	Usability validation processes	Security Market surveys
5.b	User community data	Information not found on website
5.c	User-group meetings and frequency	Information not found on website
5.d	Typical problems reported	Information not found on website
5.d.i	Resolution to problems	Information not found on website
5.e	Hours of tech. support and location	Information not found on website
5.f	Calibration requirements	Information not found on website
5.g	Training provided (hours)	Information not found on website

RFI Q.#	Survey Question (abbreviated)	Response
Features and Functions		
6.a	Types of formalize reports	Customizable reports
6.b	Types of on-demand reports	Customizable reports

RFI Q.#	Survey Question (abbreviated)	Response
Performance and Security		
7.a	Average installation time	Information not found on website
7.b	False positive / false negative rates	Low rates
7.c	Mean time to failure	Information not found on website
7.d	Percent downtime	Information not found on website
7.e	Data protection mechanisms	Information not found on website
7.f	Database record management	Archives data, integrates with View's Positive ID Management System (network and printer ports)

5.102 White Electronics Spectra-Scan



Figure 102. Whites Electronics Spectra-Scan

Person-Borne

RFI Q.#	Survey Question (abbreviated)	Response
Vendor Information		
0	Responded to FRN?	No
1.a	Name	White's Electronics Inc.
1.b	Address/phone number	1011 Pleasant Valley Road, Sweet Home, OR 97386 (888) 778-9010
1.c	Website	www.whiteselectronics.com
1.d	Years in business	50 years
1.e	Number and types of customers	Information not found on website
1.f	Manufacturing location(s)	Information not found on website

RFI Q.#	Survey Question (abbreviated)	Response
Product Information – Person-borne Contraband Detection		
2.a	Name and model number	Spectra-Scan
2.b	Primary product purpose	Handheld metal detector
2.c	Physical dims (HxWxD, inches)	16" x 2.75" x 1.17"
2.d	Operational dims (detection area)	20 cm (7.9 in) scan area
2.e	Weight (lbs)	0.69 lbs with battery
2.f	Portability (e.g., fixed, handheld)	Handheld
2.g	Intended environment (e.g., indoor)	Indoor or outdoor
2.h	Operation conditions/limitations	Operating Temperature: -40° C to 85° C Humidity: 0 – 95%
2.i	Ability to detect metal objects	Yes
2.i.i	Types of metals detected	Ferrous and nonferrous
2.i.ii	Types of metals NOT detected	N/A
2.j	Ability to detect non-metal objects	No

2.j.i	Types of non-metals detected	N/A
2.k	Ability to detect in body cavities	Information not found on website
2.k.i	Types of body cavities penetrable	Information not found on website
2.l	Ability to detect other contraband	Information not found on website
2.m	Modes of operation	Low, medium, or high sensitivity levels
2.n	Number of detection areas	Information not found on website
2.o	Type of detector used	Information not found on website
2.p	Minimum object size detectable	See sensitivity chart
2.p.i	Size on a person	See sensitivity chart
2.p.ii	Size in a body cavity	Information not found on website
2.q	Total inspection time (sec/person)	Depends on operating procedure
2.r	Penetration depth (inches)	See sensitivity chart
2.s	Alert/alarm mechanism	Audible, vibration, and visual alert
2.t	Average time to gen. alarm	Real time
2.u	Privacy safeguards/features	Information not found on website
2.v	Number of rec. operators	One
2.w	Tampering safeguards	Information not found on website
2.x	Sturdiness/fragility of material	Information not found on website
2.y	Ease of storage	Small
2.z	Data management	N/A
2.aa	Onboard memory storage	N/A
2.bb	Power requirements	9 volt battery or 1200 mA-hour lithium-manganese dioxide batteries; 2.8 mA consumption
2.cc	Battery discharge time	16 hours
2.dd	Battery shelf life (months)	120 days
2.ee	Battery recharge time (hours)	N/A
2.ff	Battery replacement procedure	Gently slide the battery door open, insert 9 volt battery, and close the battery door.
2.gg	Supplemental charger options	N/A
2.hh	Safety compliances	Complies with part 15 of the FCC rules, complies with Canadian ICES-003, complies with all NIJ standards for indoor/outdoor operations
2.ii	Radiation safety standards	Information not found on website
2.jj	Length of warranty (months)	36 months
2.kk	Auxiliary equipment	<ul style="list-style-type: none"> • Visual LED alert • Earphone jack • ON/OFF button • Low battery indicator
2.ll	Manufacturer suggested retail price	\$229.95
2.mm	Extended maintenance plans	Information not found on website
2.nn	Service contract costs	Information not found on website
2.oo	Other information	<ul style="list-style-type: none"> • Volume and sensitivity control • 125 kHz operating frequency

RFI Q.#	Survey Question (abbreviated)	Response
Usability/Training		
5.a	Usability validation processes	Information not found on website
5.b	User community data	Information not found on website
5.c	User-group meetings and frequency	Information not found on website
5.d	Typical problems reported	Information not found on website
5.d.i	Resolution to problems	Information not found on website
5.e	Hours of tech. support and location	FAQ's, on-line chat, telephone, email

5.f	Calibration requirements	Automatic calibration prior to every scan
5.g	Training provided (hours)	Security Academy is hands-on training at user facility, by security experts, to train and guide security staff in the most up-to-date security technology available.

RFI Q.#	Survey Question (abbreviated)	Response
Features and Functions		
6.a	Types of formalize reports	N/A
6.b	Types of on-demand reports	N/A

RFI Q.#	Survey Question (abbreviated)	Response
Performance and Security		
7.a	Average installation time	Information not found on website
7.b	False positive / false negative rates	Information not found on website
7.c	Mean time to failure	Information not found on website
7.d	Percent downtime	Information not found on website
7.e	Data protection mechanisms	Information not found on website
7.f	Database record management	Information not found on website

5.103 Wizard Industries Security Wizard 4 Laser Metal Detector



Figure 103. Wizard Industries Security Wizard 4 Laser Metal Detector

Person-Borne

RFI Q.#	Survey Question (abbreviated)	Response
Vendor Information		
0	Responded to FRN?	Yes
1.a	Name	Wizard Industries
1.b	Address/phone number	203 N. Saginaw Holly, MI 48442 Phone 248-382-5642
1.c	Website	Wizind.com
1.d	Years in business	17 years
1.e	Number and types of customers	Consumer and Light Industrial; Estimated 150,000 customer purchases
1.f	Manufacturing location(s)	ShenZhen, China, and Holly, Michigan

RFI Q.#	Survey Question (abbreviated)	Response
Product Information – Person-borne Contraband Detection		
2.a	Name and model number	Security Wizard 4 Laser Metal Detector
2.b	Primary product purpose	Security scanning of humans
2.c	Physical dims (HxWxD, inches)	18" H x 2.0" W x 1.0" D
2.d	Operational dims (detection area)	4"
2.e	Weight (lbs)	1.2 lbs
2.f	Portability (e.g., fixed, handheld)	Handheld
2.g	Intended environment (e.g., indoor)	Indoor/outdoor
2.h	Operation conditions/limitations	Not to be used below 32F
2.i	Ability to detect metal objects	Yes; detects metal objects up to 6 inches away. Can detect 5mm steel ball at 1 inch deep. 25mm ball. Detects medium sized pistol from 9" distance; large knife from 6"; razor blades and box cutters from 3" distance; foil-wrapped drugs and tiny jewelry from 1".
2.i.i	Types of metals detected	Detects ferrous, non-ferrous and stainless steel weapons, contraband, and other metallic objects.

2.i.ii	Types of metals NOT detected	No information provided
2.j	Ability to detect non-metal objects	No
2.j.i	Types of non-metals detected	No information provided
2.k	Ability to detect in body cavities	Yes; depends on size of object and depth of location in cavity
2.k.i	Types of body cavities penetrable	All types; but detection depth depends on size of object
2.l	Ability to detect other contraband	N/A
2.m	Modes of operation	Single mode
2.n	Number of detection areas	One
2.o	Type of detector used	Continuous wave detector
2.p	Minimum object size detectable	Average 5mm
2.p.i	Size on a person	0.25 inch away
2.p.ii	Size in a body cavity	Depends on size of object
2.q	Total inspection time (sec/person)	Average 15 seconds/person
2.r	Penetration depth (inches)	3 inches on average type of concealed item
2.s	Alert/alarm mechanism	Laser indicator illuminates on surface of scanned object
2.t	Average time to gen. alarm	2 ns (nanoseconds)
2.u	Privacy safeguards/features	N/A
2.v	Number of rec. operators	One
2.w	Tampering safeguards	N/A
2.x	Sturdiness/fragility of material	Average sturdiness
2.y	Ease of storage	Easy
2.z	Data management	N/A
2.aa	Onboard memory storage	N/A
2.bb	Power requirements	9 V battery
2.cc	Battery discharge time	Single 9 V battery provides up to 100 hours normal operation
2.dd	Battery shelf life (months)	N/A
2.ee	Battery recharge time (hours)	N/A
2.ff	Battery replacement procedure	Easy: open battery door and slide new battery inside
2.gg	Supplemental charger options	N/A
2.hh	Safety compliances	Meets U.S. and international regulatory requirements for electromagnetic safety
2.ii	Radiation safety standards	N/A
2.jj	Length of warranty (months)	12 months
2.kk	Auxiliary equipment	Headphones and earbuds not included
2.ll	Manufacturer suggested retail price	\$149.95 (\$84 government wholesale with no minimum order quantity)
2.mm	Extended maintenance plans	N/A
2.nn	Service contract costs	N/A
2.oo	Other information	N/A

RFI Q.#	Survey Question (abbreviated)	Response
Usability/Training		
5.a	Usability validation processes	Testing in production and tuning at time of shipping to each customer.
5.b	User community data	Consumer and light industrial users provide comments and examples of detection in form of product reviews.
5.c	User-group meetings and frequency	No information provided
5.d	Typical problems reported	Mostly inquiries for instructions for tuning after customer has discarded the operating instructions.
5.d.i	Resolution to problems	Expanded tuning instructions to written and video forms.

5.e	Hours of tech. support and location	8 hours per day for human contact and 24 hours per day for video instructions and tips online.
5.f	Calibration requirements	Calibration should be done weekly. It takes about 5 seconds to calibrate.
5.g	Training provided (hours)	10 minutes

RFI Q.#	Survey Question (abbreviated)	Response
Features and Functions		
6.a	Types of formalize reports	No information provided
6.b	Types of on-demand reports	No information provided

RFI Q.#	Survey Question (abbreviated)	Response
Performance and Security		
7.a	Average installation time	Seconds
7.b	False positive / false negative rates	0.5% average
7.c	Mean time to failure	3 yrs average use
7.d	Percent downtime	No information provided
7.e	Data protection mechanisms	N/A
7.f	Database record management	N/A

6. FUTURE CONSIDERATIONS

6.1 Neutron-Based Detection

Neutron-based contraband detection techniques have been developed and recently tested (Buffler 2010). There are many advantages to using this technology: 1) neutrons are not affected by electromagnetic forces and therefore can penetrate deeply into matter; 2) neutrons only interact with nuclei and with high specificity; and 3) neutron beams can be tagged according to their elemental content. However despite these significant advantages, there are still no neutron-based detection technologies available on the market. The prohibitive cost and difficulty in implementing neutron-based systems currently outweighs the advantages. With continued research, it is foreseeable that advances in neutron-based detection can benefit contraband detection.

6.2 Drone Detection

Following the recent increase in the use of drones to introduce contraband, drone detection technology is becoming more readily available.

Using radio frequency (RF) appears to be an effective method for detecting drones. RF technology, commonly known as radar, allows one to capture the GPS coordinates of the drone, altitude of the drone, GPS coordinates of the pilot, and unique identifier of the drone (Naboulsi, 2015). Other drone detection methods include audio, video, thermal, and radar detection (Naboulsi, 2015). All of these detection methods have shortfalls, mainly with respect to confusing birds with drones. Many companies are applying an integrated approach when designing drone detection systems and combining technologies to get the most coverage.

6.3 RFID Tracking

Radio frequency identification (RFID) tags have been used in correctional facilities in California, Virginia, Michigan, Illinois, Ohio, and Minnesota to help manage inmates (McKay, 2008). This technology consists of a device or tag that is fitted with a programmable chip that continually emits identifiable radio waves. Facility sensors record and display the tag's unique identity and location (Hickman, 2010). In terms of contraband detection, the RFID system would enable tracking of inmates suspected of being contraband carriers (i.e., in order to track where they go, and with whom they come in contact).

7. CONCLUSION

Contraband in correctional facilities is loosely defined as anything inmates are prohibited from possessing. Because of the widespread contraband problem in correctional facilities, the NIJ sponsored this study to provide a survey of currently available contraband detection products. This survey includes compiled vendor responses to an RFI (the text of which is in Appendix B), as well as vendor information found on the Internet. This survey is not intended to evaluate or rank these products. No judgments are made concerning the quality of these products. Instead, this document is designed to provide correctional officials with an overview of current contraband detection technologies available for their uses.

Three broad categories of contraband detection applications were defined in an effort to facilitate the usefulness of this document: person-borne, vehicle-borne, and environmental detectors. Key features of these contraband products included their weight and size, ability to detect metals and non-metals, amount of time required for inspection/detection, alert/alarm mechanism, power requirements, indoor/outdoor use, body cavity detection, etc.

From this market survey, we found information on 103 contraband detection products from 33 vendors. Fourteen of these vendors responded to the RFI, while the other information was collected via Internet searches of vendor websites. Of the vendors that responded to the RFI, the amount and details of the received information varied greatly (i.e., some provided only general information that did not address all the questions that were asked in the RFI). While this varied response limited our ability to provide a more comprehensive survey, our intent was that all received information be presented. Contact information is provided for all vendors, and the reader is encouraged to obtain information directly.

This market survey presents an overview of the technologies available at the time of data collection. Because the market is changing rapidly, additional information should be sought from the specific vendors of interest when considering an acquisition of contraband detection equipment.

8. REFERENCES

15 deadly improvised prison weapons and tools. (2009, November 3). Retrieved from CorrectionsOne: <http://www.correctionsone.com/contraband/articles/1961780-15-deadly-improvised-prison-weapons-and-tools/>

18 U.S. Code § 1791 - Providing or possessing contraband in prison. (n.d.). Retrieved from Cornell University Law School: <https://www.law.cornell.edu/uscode/text/18/1791>

Buffler, A and Tickner, J. (2010). *Detecting contraband using neutrons: Challenges and future directions.* Radiation Measurements. 45:1186-1192.
<http://www.sciencedirect.com/science/article/pii/S1350448710002015>. Accessed August 10, 2016.

Burke, T. W., & Owen, S. S. (2010, July). *Cell Phones as Prison Contraband.* Retrieved March 25, 2015, from FBI Law Enforcement Bulletin: <http://leb.fbi.gov/2010/july/cell-phones-as-prison-contraband>

Clarke, M. (2013, January 15). *Contraband Smuggling a Problem at Prisons and Jails Nationwide .* Retrieved from Prison Legal News: <https://www.prisonlegalnews.org/news/2013/jan/15/contraband-smuggling-a-problem-at-prisons-and-jails-nationwide/>

Compilation of Codes, Rules and Regulations of the State of New York. (1988, September 1). Retrieved from Boxed In: <http://www.boxedinny.org/wp-content/uploads/2012/09/Standards-of-Inmate-Behavior.pdf>

Contraband-related Seizures. Florida Department of Corrections Inspector General's Annual Report 2013-14. Retrieved from <http://www.dc.state.fl.us/pub/igannual/20132014/stateinv.html>.

Crooks get creative to smuggle contraband. (2013, November 27). Retrieved from WALB 10 News: <http://www.walb.com/story/24047984/crooks-get-creative-to-smuggle-contraband>

Department of Homeland Security (2014). *Handheld Metal Detectors Market Survey Report.* System Assessment and Validation for Emergency Responders (SAVER). Accessed August 10, 2015.

Drone carrying drugs and weapons crashes into prison in smuggling bid. (2015, March 22).

Retrieved from The Telegraph: <http://www.telegraph.co.uk/news/uknews/law-and-order/11488432/Drone-carrying-drugs-and-weapons-crashes-into-prison-in-smuggling-bid.html>

Hickman, Laura J., Davis, Lois M., Wells, Edward, and Eisman, Mel. (2010). *Tracking inmates and locating staff with active radio-frequency identification (RFID): Early lessons learned in one US correctional facility*. US Department of Justice. <https://www.ncjrs.gov/pdffiles1/nij/grants/230781.pdf>. Accessed August 10, 2016.

Huffman, C. and Ericson L. (2014). *Body Cavity Screening for Criminal Justice: Market Survey*. ManTech. Accessed August 10, 2015.

Kopochinski, Lisa. (2012). *Detecting Contraband*. Correctional News. <http://www.correctionalnews.com/articles/2012/06/20/detecting-contraband>. Accessed August 9, 2016.

McKay, Jim (2008). *Prisons use RFID systems to track inmates*. Government Technology. <http://www.govtech.com/public-safety/Prisons-Use-RFID-Systems-to-Track.html>. Accessed August 10, 2016.

Naboulsi, Zain (2015). *Drone detection: what works and what doesn't*. Help Net Security. <https://www.helpnetsecurity.com/2015/05/28/drone-detection-what-works-and-what-doesnt/> Accessed August 10, 2016.

Poppy Seeds Banned in New York State Prisons. (1988, January 4). Retrieved from AP News Archive: <http://www.apnewsarchive.com/1988/Poppy-Seeds-Banned-in-New-York-State-Prisons/id-b6dd55b9f1fb63a65b83eeeb2b516243>

Scheck, J. (2008, October 2). *Mackerel Economics in Prison Leads to Appreciation for Oily Fillets*. Retrieved from The Wall Street Journal: <http://www.wsj.com/articles/SB122290720439096481>

Shaffer, J and Russo J. (2015). *Test and Evaluation of Hand-held Cell Phone Detection Devices*. NLECTC. Accessed August 15, 2015.

APPENDIX A. ACRONYMS AND ABBREVIATIONS

Acronym	Description
CX CoE	Corrections Technology Center of Excellence
DOJ	Department of Justice
FMD	Ferromagnetic Detection
FRN	Federal Register Notice
JHU/APL	The Johns Hopkins University Applied Physics Laboratory
MMW	Millimeter Wave
MSRP	Manufacturer's Suggested Retail Price
NIJ	National Institute of Justice
NLECTC	National Law Enforcement and Corrections Technology Center
NLJD	Non-Linear Junction Detection
RF	Radio Frequency
RFD	Radio Frequency Detection
RFI	Request for Information
RFID	Radio Frequency Identification

APPENDIX B. REQUEST FOR INFORMATION



Federal Register / Vol. 81, No. 8 / Wednesday, January 13, 2016 / Notices

1645

Management and Budget (OMB) for review and approval in accordance with the Paperwork Reduction Act of 1995.

DATES: Comments are encouraged and will be accepted for 60 days until March 14, 2016.

FOR FURTHER INFORMATION CONTACT: If you have comments especially on the estimated public burden or associated response time, suggestions, or need a copy of the proposed information collection instrument with instructions or additional information, please contact Lashon M. Hilliard, Department of Justice Office of Community Oriented Policing Services, 145 N Street NE., Washington, DC 20530. Written comments and/or suggestions can also be directed to the Office of Management and Budget, Office of Information and Regulatory Affairs, Attention Department of Justice Desk Officer, Washington, DC 20530 or sent to OIRA_submissions@omb.eop.gov.

SUPPLEMENTARY INFORMATION: Written comments and suggestions from the public and affected agencies concerning the proposed collection of information are encouraged. Your comments should address one or more of the following four points:

- Evaluate whether the proposed collection of information is necessary for the proper performance of the functions of the agency, including whether the information will have practical utility;
- Evaluate the accuracy of the agency's estimate of the burden of the proposed collection of information, including the validity of the methodology and assumptions used;
- Enhance the quality, utility, and clarity of the information to be collected; and
- Minimize the burden of the collection of information on those who are to respond, including through the use of appropriate automated, electronic, mechanical, or other technological collection techniques or other forms of information technology, *e.g.*, permitting electronic submission of responses.

Overview of This Information Collection

(1) *Type of Information Collection:* Revision of a previously approved collection, with change.

(2) *Title of the Form/Collection:* COPS Application Package.

(3) *Agency form number:* 1103-0098 U.S. Department of Justice Office of Community Oriented Policing Services.

(4) *Affected public who will be asked or required to respond, as well as a brief abstract:*

Primary: Law Enforcement Agencies and other public and private entities that apply for COPS Office grants.

(5) *An estimate of the total number of respondents and the amount of time estimated for an average respondent to respond/reply:* It is estimated that 5,000 respondents annually will complete the form within 11 hours

(6) An estimate of the total public burden (in hours) associated with the collection: There are an estimated 55,000 hours (5,000 respondents × 11 hours = 55,000 hours).

If additional information is required contact: Jerri Murray, Department Clearance Officer, United States Department of Justice, Justice Management Division, Policy and Planning Staff, Two Constitution Square, 145 N Street NE., 3E.405B, Washington, DC 20530.

Dated: January 7, 2016.

Jerri Murray,

Department Clearance Officer for PRA, U.S. Department of Justice.

[FR Doc. 2016-00434 Filed 1-12-16; 8:45 am]

BILLING CODE 4410-AT-P

DEPARTMENT OF JUSTICE

Office of Justice Programs

[OJP (NIJ) Docket No. 1704]

Contraband Detection Market Survey

AGENCY: National Institute of Justice (NIJ), Justice.

ACTION: Notice of request for information.

SUMMARY: The NIJ is soliciting information in support of the upcoming National Criminal Justice Technology Research, Test, and Evaluation Center (NIJ RT&E Center) "Market Survey of Contraband Detection Technologies." This market survey, which will identify commercially available contraband detection systems for use in corrections facilities, will be published by NIJ to assist purchasing agents or other representatives of corrections facilities in their assessment of relevant information prior to making purchasing decisions. Comments with regard to the market survey itself, including which categories of information are appropriate for comparison, as well as promotional material (*e.g.*, slick sheets) and print-quality images in electronic format, are also invited.

DATES: Responses to this request will be accepted through 11:59 p.m. Eastern Standard Time on February 15, 2016.

ADDRESSES: Responses to this request may be submitted electronically in the

body of, or as an attachment to, an email sent to administrator@nijrtecenter.org with the recommended subject line "Contraband Federal Register Response." Questions and responses may also be sent by mail (please allow additional time for processing) to the following address: National Criminal Justice Technology Research, Test and Evaluation Center, ATTN: Contraband Federal Register Response, Johns Hopkins University Applied Physics Laboratory, 11100 Johns Hopkins Road, Mail Stop 17-N444, Laurel, MD 20723-6099.

FOR FURTHER INFORMATION: For more information on this request, please contact Rebecca Koslover (NIJ RT&E Center) by telephone at 443-778-1643 or administrator@nijrtecenter.org. For more information on the NIJ RT&E Center, visit <http://nij.gov/funding/awards/Pages/award-detail.aspx?award=2013-MU-CX-K111> and view the description, or contact Jack Harne (NIJ) by telephone at 202-616-2911 or at Jack.Harne@usdoj.gov. Please note that these are not toll-free telephone numbers.

SUPPLEMENTARY INFORMATION:

Information Sought: Information is sought for an upcoming "Market Survey of Contraband Detection Technologies," which seeks to identify commercially available contraband detection systems for use in corrections facilities. Applicable technologies should be capable of detecting contraband types in one or more of the following categories: (1) Weapons; (2) drug paraphernalia; (3) cell phones (or other mobile devices); and (4) forms of currency (*e.g.*, money, stamps, etc.). In addition to these categories of contraband types, NIJ seeks to identify systems capable of detecting contraband under the following conditions: (1) Person-borne; (2) vehicle-borne; and (3) environmental.

The person-borne category seeks to identify technology that is capable of detecting contraband concealed either on a person, or within body cavities. The vehicle-borne category seeks to identify technology that is capable of detecting contraband concealed in vehicles (*e.g.*, passenger cars, delivery trucks, etc.) entering and leaving correctional facilities. Lastly, the environmental category seeks to identify technology that is capable of detecting contraband concealed in the environment (*e.g.*, walls, furniture, etc.).

Usage: This market survey will be published by NIJ to assist corrections agencies in their assessment of relevant information prior to making purchasing decisions.

Information Categories: Comments are invited with regard to the market survey, including which categories of information are appropriate for comparison, as well as promotional material (e.g., slick sheet) and print-quality photographs of the technology. At a minimum, the Center intends to include the following categories of information for each Contraband Detection technology that may be of use in corrections facilities:

1. Vendor Information

- a. Name
- b. Address and phone number of corporate office
- c. Web site
- d. Years your company has been in business
- e. Number and types of customers (e.g., state, local, or federal corrections)
- f. Location where technology is manufactured, assembled, or refurbished

2. Product Information—Person-Borne Contraband Detection

- a. Name and model number
- b. Primary purpose of product
- c. Physical dimensions (height × width × depth, in inches) of device
- d. Operational dimensions (i.e., limitations to the detection area)
- e. Weight (in pounds and ounces) of device
- f. Portability (e.g., fixed, portable, or handheld)
- g. Intended environment (e.g., indoor use only? Indoor/outdoor use?)
- h. Operating conditions or limitations (e.g., temperature, humidity, etc.)
- i. Ability of the system/device to detect metal objects
 - i. Types of metals that are detected by the system
 - ii. Types of metals that are not detected by the system
- j. Ability of the system/device to detect non-metal objects
 - i. Types of non-metal materials that can be detected by the system/device (e.g., liquids, gels, plastic, wood, ceramic, powder, paper, currency, etc.)
- k. Ability of the system/device to detect objects concealed within a body cavity
 - i. Types of body cavities that are covered by the system/device
- l. Ability of the system/device to detect other types of contraband and related material not specifically listed here (i.e., potential next generation contraband detection)
- m. Modes of operation (e.g., settings for detecting different materials)
- n. Number of detection areas (e.g., ability to simultaneous detect threats)
- o. Type of detector used (e.g., transmission x-ray, active millimeter wave, pulse induction detector, continuous wave detector, passive, etc.)
- p. Minimum size of objects that can be detected (length × width × height in inches, or weight in pounds and ounces)
 - i. On a person
 - ii. Concealed within body cavities
- q. Total inspection time per individual screened with the system/device (seconds/person)

- r. Penetration depth of the system/device's scan when used on a clothed person (in inches)
- s. Alert/alarm mechanism (e.g., alarm only, body location alarm, anomaly image, body region image, full body image, etc.)
- t. Average time (in seconds) to process/generate an alarm
- u. Privacy safeguards or features (e.g., remote viewing, body masking)
- v. Number of recommended operators
- w. Safeguards for cyber security, unintentional disassembly, jamming, or intentional damage
- x. Sturdiness/fragility of the technology material
- y. Ability for easy storage when not in use
- z. Data management with respect to saving, archiving, retrieving, and printing subject scan information
 - aa. Onboard memory storage (e.g., quantity of data that can be stored on device in number of files/alerts/days activity)
 - bb. Power requirements (e.g., 120 volts)
 - cc. Battery discharge time (hours of continuous operation before needing a charge), if applicable
 - dd. Battery shelf life (in months), if applicable
 - ee. Battery recharge time (hours required to fully charge battery after complete discharge), if applicable
 - ff. Battery replacement procedure and where it must be done (e.g., field or factory), if applicable
 - gg. Availability of supplemental charger for emergency battery charging (e.g., hand crank, backup battery, solar, etc.), if applicable
 - hh. Regulatory and Compliance safety requirements (e.g., FCC approved) and/or NIJ Compliance (e.g., NIJ Standard 0602.02, and 0601.02)
 - ii. Radiation safety standards (e.g., ANSI, ICRP, NCRP, EURATOM, etc.), if applicable
 - jj. Length of warranty (in months) that comes standard with the system/device and the components that are covered
 - kk. Auxiliary equipment (e.g., car chargers, emergency chargers, etc.)
 - ll. Manufacturer suggested retail price (MSRP) without optional features, accessories or service plans
 - mm. Availability of extended maintenance plans
 - nn. Service contract costs
 - oo. Other information or notes that are relevant to the system/device

3. Product Information—Vehicle-Borne Contraband Detection

- a. Name and model number
- b. Primary purpose of product
- c. Physical dimensions (height × width × depth, in inches) of device
- d. Operational dimensions (i.e., limitations to the detection area)
- e. Weight (in pounds and ounces) of device
- f. Portability (e.g., fixed, portable, or handheld)
- g. Operating conditions or limitations (e.g., temperature, humidity, etc.)
- h. Ability of the system/device to detect explosives, firearms, or other weapons
- i. Ability of the system/device to detect

- narcotics, alcohol, or other chemicals
- j. Ability of the system/device to detect people or animals
- k. Ability of the system/device to detect other types of contraband and related material not specifically listed here (i.e., potential next generation contraband detection)
- l. Modes of operation (e.g., settings for detecting different materials)
- m. Number of detection areas (e.g., ability to simultaneous detect threats)
- n. Type of detector used (e.g., transmission x-ray, active millimeter wave, pulse induction detector, continuous wave detector, passive, etc.)
- o. Minimum size of objects that can be detected (length × width × height in inches, or weight in pounds and ounces) in and underneath a vehicle
- p. Total inspection time per vehicle screened with the system/device (seconds/vehicle)
- q. Alert/alarm mechanism (e.g., alarm only, vehicle location alarm, anomaly image, vehicle region image, full vehicular image, etc.)
- r. Average time (in seconds) to process/generate an alarm
- s. Number of recommended operators
- t. Safeguards for cyber security, unintentional disassembly, jamming, or intentional damage
- u. Sturdiness/fragility of the technology material
- v. Ability for easy storage when not in use
- w. Data management with respect to saving, archiving, retrieving, and printing vehicle scan information
 - x. Onboard memory storage (e.g., quantity of data that can be stored on device in number of files/alerts/days activity)
 - y. Power requirements (e.g., 120 volts)
 - z. Battery discharge time (hours of continuous operation before needing a charge), if applicable
 - aa. Battery shelf life (in months), if applicable
 - bb. Battery recharge time (hours required to fully charge battery after complete discharge), if applicable
 - cc. Battery replacement procedure and where it must be done (e.g., field or factory), if applicable
 - dd. Availability of supplemental charger for emergency battery charging (e.g., hand crank, backup battery, solar, etc.), if applicable
 - ee. Regulatory and Compliance safety requirements (e.g., FCC approved) and/or NIJ Compliance (e.g., NIJ Standard 0602.02, and 0601.02)
 - ff. Radiation safety standards (e.g., ANSI, ICRP, NCRP, EURATOM, etc.), if applicable
 - gg. Length of warranty (in months) that comes standard with the system/device and the components that are covered
 - hh. Auxiliary equipment (e.g., emergency chargers, etc.)
 - ii. Manufacturer suggested retail price (MSRP) without optional features, accessories or service plans
 - jj. Availability of extended maintenance plans
 - kk. Service contract costs
 - ll. Other information or notes that are relevant to the system/device

4. Product Information—Environmental Contraband Detection

- a. Name and model number
- b. Primary purpose of product
- c. Physical dimensions (height × width × depth, in inches) of device
- d. Operational dimensions (*i.e.*, limitations to the detection area)
- e. Weight (in pounds and ounces) of device
- f. Portability (*e.g.*, fixed, portable, or handheld)
- g. Operating conditions or limitations (*e.g.*, temperature, humidity, etc.)
- h. Ability of the system/device to detect metal objects
 - i. Types of metals that are detected by the system
 - ii. Types of metals that are not detected by the system
- i. Ability of the system/device to detect non-metal objects
 - i. Types of non-metal materials that can be detected by the system/device (*e.g.*, liquids, gels, plastic, wood, ceramic, powder, paper, currency, etc.)
 - j. Ability of the system/device to detect other types of contraband and related material not specifically listed here (*i.e.*, potential next generation contraband detection)
- k. Modes of operation (*e.g.*, settings for detecting different materials)
- l. Number of detection areas (*e.g.*, ability to simultaneous detect threats)
- m. Type of detector used (*e.g.*, transmission x-ray, active millimeter wave, pulse induction detector, continuous wave detector, passive, etc.)
- n. Minimum size of objects that can be detected (length × width × height in inches, or weight in pounds and ounces)
- o. Maximum size of objects that can be detected (length × width × height in inches, or weight in pounds and ounces)
- p. Alert/alarm mechanism (*e.g.*, alarm only, anomaly image, full picture image, etc.)
- q. Average time (in seconds) to process/generate an alarm
- r. Number of recommended operators
- s. Safeguards for cyber security, unintentional disassembly, jamming, or intentional damage
- t. Sturdiness/fragility of the technology material
- u. Ability for easy storage when not in use
- v. Data management with respect to saving, archiving, retrieving, and printing scan information
- w. Onboard memory storage (*e.g.*, quantity of data that can be stored on device in number of files/alerts/days activity)
- x. Power requirements (*e.g.*, 120 volts)
- y. Battery discharge time (hours of continuous operation before needing a charge), if applicable
- z. Battery shelf life (in months), if applicable
- aa. Battery recharge time (hours required to fully charge battery after complete discharge), if applicable
- bb. Battery replacement procedure and where it must be done (*e.g.*, field or factory), if applicable
- cc. Availability of supplemental charger for emergency battery charging (*e.g.*, hand crank, backup battery, solar, etc.), if applicable
- dd. Regulatory and Compliance safety

- requirements (*e.g.*, FCC approved) and/or NIJ Compliance (*e.g.*, NIJ Standard 0602.02, and 0601.02)
- ee. Radiation safety standards (*e.g.*, ANSI, ICRP, NCRP, EURATOM, etc.), if applicable
- ff. Length of warranty (in months) that comes standard with the system/device and the components that are covered
- gg. Auxiliary equipment (*e.g.*, car chargers, emergency chargers, etc.)
- hh. Manufacturer suggested retail price (MSRP) without optional features, accessories or service plans
- ii. Availability of extended maintenance plans
- jj. Service contract costs
- kk. Other information or notes that are relevant to the system/device

5. Usability/Training

- a. Types of processes used to ensure usability of hardware and software products (*e.g.*, requirements gathering, observation, task analysis, interaction design, usability testing, ergonomics, etc.)
- b. Types of data gathered from the user community (*e.g.*, interviews, observations during hands-on training, survey, satisfaction surveys, repeat customers, etc.) to evaluate your products, and how often it is collected
- c. Types of user-group meetings and frequency of their occurrence
- d. Categories of problems reported to vendor and percentage of user community that experienced them within the last three (3) years
 - i. Resolution(s) to the problems identified above
- e. Hours of technology support and location (*e.g.*, telephone or at agency)
- f. Calibration requirements (*e.g.*, cost, methodology, hours required)
- g. Hours and type of training provided (*e.g.*, on-site, web-based, pre-recorded, play environment etc.)

6. Features and Functions

- a. Types of reports that are available (*e.g.*, standard information examples, extent that reports are customizable, etc.)
 - b. Types of on-demand custom reports
- 7. Performance and Security**
- a. Average time to install and activate device (in minutes, hours, or days)
 - b. False positive (alert generated when it should not have been) and false negative (alert was not generated when it should have been) rates
 - c. Mean time to failure
 - d. Percent availability versus downtime of the device
 - e. Data protection mechanism while in transit and during storage (*e.g.*, SSL, encryption, password strength, etc.)
 - f. Types of database change record maintenance practices for historical data

Nancy Rodriguez,

Director, National Institute of Justice.

[FR Doc. 2016-00503 Filed 1-12-16; 8:45 am]

BILLING CODE 4410-10-P

SECURITIES AND EXCHANGE COMMISSION

[Release No. 34-76851; File No. SR-EDGA-2015-49]

Self-Regulatory Organizations; EDGA Exchange, Inc.; Notice of Filing and Immediate Effectiveness of a Proposed Rule Change to Rules 11.17, Registration of Market Makers, and 11.20, Obligations of Market Makers

January 7, 2016.

Pursuant to Section 19(b)(1) of the Securities Exchange Act of 1934 (the “Act”),¹ and Rule 19b-4 thereunder,² notice is hereby given that on December 24, 2015, EDGA Exchange, Inc. (the “Exchange” or “EDGA”) filed with the Securities and Exchange Commission (“Commission”) the proposed rule change as described in Items I and II below, which Items have been prepared by the Exchange. The Exchange has designated this proposal as a “non-controversial” proposed rule change pursuant to Section 19(b)(3)(A) of the Act³ and Rule 19b-4(f)(6)(iii) thereunder,⁴ which renders it effective upon filing with the Commission. The Commission is publishing this notice to solicit comments on the proposed rule change from interested persons.

I. Self-Regulatory Organization's Statement of the Terms of Substance of the Proposed Rule Change

The Exchange filed a proposal to amend Rules 11.17, Registration of Market Makers, and 11.20, Obligations of Market Makers, in order to update certain provisions and conform to the rules of BATS Exchange, Inc. (“BZX”), BATS Y-Exchange, Inc. (“BYX”), EDGX Exchange, Inc.’s (“EDGX”) equity options trading platform (“EDGX Options”), BZX’s equity options trading platform (“BZX Options”), and the Nasdaq Stock Market LLC (“Nasdaq”).⁵

The text of the proposed rule change is available at the Exchange’s Web site at www.batstrading.com, at the principal office of the Exchange, and at the Commission’s Public Reference Room.

¹ 15 U.S.C. 78s(b)(1).

² 17 CFR 240.19b-4.

³ 15 U.S.C. 78s(b)(3)(A).

⁴ 17 CFR 240.19b-4(f)(6)(iii).

⁵ See BYX and BZX Rules 11.5 and 11.8; BZX Options Rule 22.6(d)(4), (5), and (7); EDGX Options Rule 22.6(d)(4), (5), and (7); and Nasdaq Rules Rule 4613(a)(2)(ii), 4613(a)(2)(D) and (E).

