

TSA Air Cargo Screening Technology List (ACSTL)

Version 12.1

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1 Introduction

1.1 Document Purpose

The Air Cargo Screening Technology List (ACSTL) serves as TSA's official guide for regulated parties to use when procuring screening devices and associated trace consumables in accordance with TSA approved security programs. Any technology purchased from this list must be utilized in accordance with measures outlined in a screener's Standard Security Program. This list does not apply to devices owned by TSA or devices used in TSA-sponsored tests or test beds. Reference the SSI version of the ACSTL to determine approved and qualified software versions. This information is not contained in the Non-SSI version of the ACSTL.

1.2 Document Format

The document is arranged by Technology Qualification Group as follows: (1) Visual Image (VI) Devices, formerly referred to as the Non-Computed Tomography (Non-CT) Transmission X-ray Devices, (2) Explosive Trace Detection (ETD) Devices, (3) Metal Detectors (MD), formerly referred to as the Electronic Metal Detection (EMD) Devices, (4) Explosive Detection Systems (EDS), and (5) Carbon Dioxide (CO2) Monitors. Under each Technology Qualification Group are three sections: A Qualified Technology section, an Approved Technology section, and a Grandfathered Technology section. The Qualified Technology section specifies devices, by technology, which have undergone a formal TSA-sponsored test process and are deemed qualified for screening operations. When procuring a device from the ACSTL, regulated parties are encouraged to select a device from the Qualified Technology section. The Approved Technology section specifies devices, by technology, which have been conditionally approved for screening operations and are currently undergoing or are scheduled for field-test activities. These devices have up to 36 months from the date added to the Approved Technology section to successfully pass TSA's suitability based field-test activities. If a device is unable to pass field-test activities within the prescribed 36 months, it will be removed from the Approved Technology section. Due to this fact, regulated parties who procure a device from the Approved Technology section do so at their own risk. Additional technologies may be added to the Approved Technology section at TSA's discretion. The Grandfathered Technology section specifies devices, by technology, which are currently qualified to screen cargo but have a stated expiration date. This allows regulated parties who are using the grandfathered technology an opportunity to gradually phase out the device and transition to devices listed in the Qualified or Approved sections. Due to this fact, regulated parties should not purchase devices from this section; rather, they should reference the Qualified or Approved sections for their procurement needs.

1.3 Disclaimer

The Approved Technology section reflects devices that have successfully passed Stage I of the qualification testing process. TSA reserves the right to remove any device from this section that fails Stage II test activities. The Grandfathered Technology section reflects devices that are currently qualified to screen cargo but have a stated expiration date. TSA also reserves the right to remove

devices from the Approved or Qualified section or revise an expiration date for Grandfathered devices due to a device's inability to meet more stringent performance parameters associated with emerging threats. Should such a situation occur, TSA will issue specific guidance on how previously purchased devices may be used.

1.4 Device Configuration

Top Assembly Part Number and Required Software Version indicate the only qualified configurations for each Device Model Number. Models with different part numbers or software versions are not considered qualified screening devices. Reference the SSI version of the ACSTL to determine approved and qualified software versions. This information is not contained in the Non-SSI version of the ACSTL.

1.5 Operating Environment

Devices listed within the ACSTL are intended to be operated under controlled temperature and humidity conditions. Add-on components and kits may be available from vendors to extend operational temperature and humidity ranges.

1.6 Manufacturer Contact Information

Company	Address	Point of Contact	Phone Number	E-mail
Armstrong Monitoring	215 Colonnade Road South Ottawa, ON K2E 7K3 Canada	Scott Bissett	800-465-5777	SBissett@armstrongmonitoring.com
Astrophysics, Inc.	21481 Ferrero Parkway City of Industry, CA 91789	Jamie Vargas	909-598-5488	jvargas@astrophysicsinc.com
CEIA USA	9155 Dutton Drive Twinsburg Ohio 44087	Luca Cacioli	330-217-7995	LCacioli@ceia-usa.com
Gilardoni S.p.A.	Via Arturo Gilardoni 1 Mandello del Lario 23826 (LC), Italy	Luca Ghislanzoni	0039-0341-705218	lg@gilardoni.it
InstroTek, Inc.	1 Triangle Drive, PO 13944 Research Triangle Park, NC 27709	Ali Regimand	919-875-8371	AREgimand@instrotek.com
Leidos	One Radcliff Road Tewksbury, MA 01876	Lorie Halitzka	424-344-1552	Lorie.a.halitzka@leidos.com
Mettler-Toledo Safeline	6005 Benjamin Road Tampa, FL 33634	Chris Acierno	813-889-9500	Chris.Acierno@mt.com
Rapiscan Systems	2900 Crystal Drive, Suite 910 Arlington, VA 22202	Craig Hamilton	540-300-0412	chamilton@rapiscansystems.com

Company	Address	Point of Contact	Phone Number	E-mail
Smiths Detection, Inc.	2202 Lakeside Blvd Edgewood, MD 21040	Ron Shields	571-242-5050	Ron.Shields@Smiths-Detection.com
VMI Security	Av. Hum, 55-Distrito Industrial Genesco Aparecido De Oliveira, Lagoa Santa – MG 33400-000, Brazil	Lazaro Borges Silva	+55 31 3622-0470	Lazaro.silva@vmis.com.br
X-Ray Center (XRC)	Beylikduzu OSB Mahallesi, 10 Cadde, NO: 14 Beylikduzu Istanbul, 34524 Turkey	Kami Havluciyen	+90-212-665-1328	kami@x-raycenter.com

1.7 Updates in This Version

Page	Section	Change
6	1.6 Manufacturer Contact Information	Removal of VOTI Systems Contact Information due to procurement of VOTI by Rapiscan Systems. Removal of Reveal Imaging Technologies Contact Information due to device expiration.
10-13	2.1 Qualified Visual Image Technology	Administrative correction of Astrophysics XIS-7858DVS software version to align with CR 0036_R2. Update to reflect Rapiscan Systems procurement of VOTI Detection, Inc. Addition of Rapiscan 935DX software per ECP-AC-071_R1.
18	3.2 Approved ETD Technology	Add new software version for Rapiscan Itemiser 5X (IT5X) per ECP-AC-ETD-012_R3.
19-20	3.3 Grandfathered ETD Technology	Update Smiths IONSCAN -2 expiration and add note per Technical Bulletin 040.
27	5.2 Qualified EDS Technology	Administrative change to correct software version for Rapiscan RTT110.
28	5.3 Grandfathered EDS Technology	Removal of expired Grandfathered EDS Technology and associated notes.

2 Visual Image Devices

Technology Description: Fixed projection Visual Image inspection devices that display digitized transmission radiographic images of an object under inspection following an interrogation.

Technology Classification: This technology is classified by material discrimination capability, number of views, and capacity.

Material discrimination capability: Classification groups are “Yes (Y)” and “No (N).” “Yes” indicates devices that are capable of enabling visual differentiation between types of materials detected, e.g., nylon vs explosives vs PVS under steel. “No” indicates devices that do not discriminate between different materials.

Number of views: Classification groups are single view (grandfathered), dual view, and multi view. Devices may display images scanned from one, two, or multiple perspectives. Regardless of a device’s manual or assisted-detection capability, the operator must view and interpret one or more images of each object under inspection as dictated by the applicable security program.

Capacity designation: Device capacity groups are defined in the table below. The capacity listing is for testing and informational purposes only.

Visual Image Device Capacity Designations

ID	Description
A	Small Aperture – Can accommodate screening of air cargo with an item size of at least 49 cm (19.3 in) wide by 38 cm (15 in) high by 91 cm (35.8 in) long and 50 kg (110.2 lbs.) in weight and up to 80 cm (31.5 in) wide by 60 cm (23.6 in) high by 120 cm (47.2 in) long and 100 kg (220.5 lbs.) in weight.
B	Medium Aperture – Can accommodate screening of air cargo with at item size of at least 80 cm (31.5 in) wide by 60 cm (23.6 in) high by 120 cm (47.2 in) long and 100 kg (220.5 lbs.) in weight and up to 122 cm (48 in) wide by 153 cm (60.2 in) high by 122 cm (48 in) long and 1,000 kg (2,205 lbs.) in weight.
C	Large Aperture – Can accommodate screening of air cargo with an item size of at least 122 cm (48 in) wide by 153 cm (60.2 in) high by 122 cm (48 in) long and 1,000 kg (2,205 lbs.) in weight.

2.1 Qualified Visual Image Technology

The Qualified Technology section specifies devices that have undergone a formal TSA-sponsored test process and are deemed qualified for screening operations. When procuring a device from the ACSTL, regulated parties are encouraged to select a device from the qualified technology section.

Vendor	Device Model Number	Required Top Assembly Part Number	Material Discrimination	# of Views	Capacity	Operating Voltage	Max Voltage	Date Qualified
Astrophysics, Inc.	XIS-100XDV	00-13-1XDV-21	Y	Dual View	B	165 kV	180 kV	10/23/2009
Astrophysics, Inc.	XIS-100XDX	00-22-1XDX-11	Y	Dual View	B	165 kV	180 kV	08/09/2012
		00-22-10DX-11						
Astrophysics, Inc.	XIS-1517DV 200kV	00-22-15DV-20	Y	Dual View	C	200 kV	200 kV	08/09/2012
Astrophysics, Inc.	XIS-1818DV 200kV	00-22-18DV-20	Y	Dual View	C	200 kV	200 kV	08/09/2012
Astrophysics, Inc.	XIS-1818DV 320kV	00-00-18DV-23	Y	Dual View	C	320 kV	320 kV	12/12/2012
Astrophysics, Inc.	XIS-6545DV	00-13-6545DV-21	Y	Dual View	A	165 kV	180 kV	10/23/2009
Astrophysics, Inc.	XIS-6545DVS	00-30-6DVS-10	Y	Dual View	A	165 kV	180 kV	11/21/2016
Astrophysics, Inc.	XIS-7858DVS	00-30-7DVS-10	Y	Dual View	A	165 kV	180 kV	11/21/2016
Gilardoni S.p.A	FEP ME CARGO DV	05141105	Y	Dual View	C	200 kV	300 kV	11/05/2021
Gilardoni S.p.A	FEP ME 640 AMX	05141182	Y	Dual View	A	150 kV	160kV	01/12/2021
		05141122						
Gilardoni, S.p.A.	FEP ME 755 AMX	05141096	Y	Dual View	A	150 kV	160 kV	10/23/2014
Gilardoni S.p.A	FEP ME 1000 HC DV	05141103	Y	Dual View	B	160 kV	160kV	01/12/2021

Vendor	Device Model Number	Required Top Assembly Part Number	Material Discrimination	# of Views	Capacity	Operating Voltage	Max Voltage	Date Qualified
Leidos	ACX 6.4 MV	1000-MV3AC-00	Y	Multi View	A	150 kV	153 kV	10/23/2009
Leidos	CX 6000 P DV	002	N	Dual View	C	6MeV	6MeV	05/14/2010
Leidos	MVT-HR	1000-10001-HR	Y	Multi View	B	150 kV	160 kV	02/03/2010
		1000-10002-HR						
Leidos	PX 10.10 MV	1000-P1010-2V	Y	Dual View	B	160 kV	160 kV	08/09/2012
		1000-P1010-AC						
Leidos	PX 15.17 MV 200kV	0125-10732-00	Y	Dual View	C	200 kV	200 kV	08/09/2012
Leidos	PX 18.18 MV 200kV	0125-10734-00	Y	Dual View	C	200 kV	200 kV	08/09/2012
Leidos	PX 18.18 MV 320kV	0125-10735-00	Y	Dual View	C	320 kV	320 kV	12/12/2012
Rapiscan Systems	620DV	2010001	Y	Dual View	A	160 kV	180 kV	10/23/2009
		2010002						
Rapiscan Systems	627DV	2010003	Y	Dual View	B	160 kV	180 kV	10/23/2009
		2010004						
Rapiscan Systems	628DV	2010006	Y	Dual View	B	160 kV	180 kV	05/14/2010
Rapiscan Systems	632DV	2010007	Y	Dual View	C	200 kV	200 kV	10/23/2009
		2010008						
Rapiscan Systems	638DV	2010009	Y	Dual View	C	200 kV	200 kV	10/23/2009

Vendor	Device Model Number	Required Top Assembly Part Number	Material Discrimination	# of Views	Capacity	Operating Voltage	Max Voltage	Date Qualified
		2010010	Y	Dual View	C	320 kV	320 kV	06/23/2016
Rapiscan Systems	920DX	2010011	Y	Dual View	A	160kV	180kV	01/22/2020
		2010012						
Rapiscan Systems	927DX	2010026	Y	Dual View	B	160kV	180kV	01/22/2020
		2010027						
Rapiscan Systems	928DX	2010028	Y	Dual View	B	160kV	180kV	01/22/2020
		2010029						
Rapiscan Systems	935DX	2010025	Y	Dual View	C	240kV / 200 kV (2)	300 kV / 200 kV (2)	11/3/2022
Rapiscan Systems	MVXR 5000	2010659-6	Y	Multi View	B	170 kV	180 kV	02/03/2010
Rapiscan Systems (3)	VOTI XR3D-6D	500002-001	Y	Dual View	A	160 kV	160 KV	10/24/2019
Rapiscan Systems (3)	VOTI XR3D-7D	500003-002	Y	Dual View	A	160 kV	160 kV	12/20/2019
Rapiscan Systems (3)	VOTI XR3D-15D	534307-109, Rev D and 535307-107, Rev F	Y	Dual View	C	200 kV	200 kV	10/13/2021
Rapiscan Systems (3)	VOTI XR3D-100D	500068-001	Y	Dual View	B	160 kV	160kV	12/20/2019
Smiths Detection, Inc.	6040-2is	HS 6040-2is	Y	Dual View	A	160 kV	180 kV	08/27/2015
Smiths Detection, Inc.	6040aTiX	HS 6040aTiX	Y	Dual View	A	160 kV	176 kV	10/23/2009
Smiths Detection, Inc.	6040aX	HS 6040aX	Y	Dual View	A	160 kV	176 kV	08/09/2012
Smiths Detection, Inc.	7555aTiX	HS 7555aTiX	Y	Dual View	A	160 kV	176 kV	05/14/2010
Smiths Detection, Inc.	7555aX	HS 7555aX	Y	Dual View	A	160 kV	176 kV	08/09/2012
Smiths Detection, Inc.	10080 EdtS	HS 10080 EdtS	Y	Multi View	B	160 kV	176 kV	10/23/2009

Vendor	Device Model Number	Required Top Assembly Part Number	Material Discrimination	# of Views	Capacity	Operating Voltage	Max Voltage	Date Qualified
Smiths Detection, Inc.	10080 EDX-2is	HS 10080 EDX-2is (1132486)	Y	Dual View	B	160 kV	176 kV	10/23/2009
Smiths Detection, Inc.	100100T-2is	HS 100100T-2is	Y	Dual View	B	160 kV	176 kV	10/23/2009
Smiths Detection, Inc.	100100V-2is	HS 100100V-2is 34504172	Y	Dual View	B	160 kV	176 kV	08/09/2012
Smiths Detection, Inc.	130130T-2is	HS 130130T-2is	Y	Dual View	B	160 kV	176 kV	10/23/2009
Smiths Detection, Inc.	145180-2is	HS 145180-2is	Y	Dual View	C	160 kV	176 kV	4/25/2013
Smiths Detection, Inc.	180180-2is	HS 180180-300kV-2is	N	Dual View	C	300 kV	320 kV	10/23/2009
Smiths Detection, Inc.	180180-2is Pro	HS 180180-2is Pro	Y	Dual View	C	300 kV	320 kV	10/18/2016
Smiths Detection, Inc. (1)	HRX 1000 DV	P0007033-011	Y	Dual View	B	165 kV	180 kV	05/14/2010
Smiths Detection, Inc.	HS 145180-2is Pro	11132774	Y	Dual View	C	200 kV	220kV	02/4/2021
X-Ray Center (XRC)	XRC 60-40DV	XRC 60-40DV	Y	Dual View	A	160 kV	170 kV	04/11/2018
X-Ray Center (XRC)	XRC 75-55DV	XRC 75-55DV	Y	Dual View	A	160 kV	170 kV	02/09/2021
X-Ray Center (XRC)	XRC 100-100DV	XRC 100-100DV	Y	Dual View	B	165 kV	180 KV	05/23/2018
X-Ray Center (XRC)	XRC 180-180DV (200kV)	XRC 180-180DV	Y	Dual View	C	200 kV	200 kV	12/07/2021
X-Ray Center (XRC)	XRC 180-180DV (320kV)	XRC 180-180DV	Y	Dual View	C	320 kV	320 kV	09/17/2019

Notes:

- (1) Morpho Detection, Inc. was acquired by Smiths Detection, Inc. Either company's data plate is acceptable as long as the Top Assembly Part Number matches the number listed in the Qualified section.
- (2) Rapiscan 935DX Operating Voltage and Max Voltage reflect vertical / horizontal voltage.
- (3) VOTI Detection, Inc. was acquired by Rapiscan Systems. Either company's data plate is acceptable as long as the Top Assembly Part Number matches the number listed in the Qualified section.

2.2 Approved Visual Image Technology

The Approved Technology section specifies devices that have been conditionally approved for screening operations and are currently undergoing - or are scheduled for - field test activities. These devices have up to 36 months from the date added to the Approved Technology section to successfully pass TSA's suitability-based field test activities. If a device is unable to pass field test activities within the prescribed 36 months, it will be removed from the Approved Technology section. Due to this fact, regulated parties who procure a device from the Approved Technology section do so at their own risk. Additional technologies may be added to the list at TSA's discretion.

Vendor	Device Model Number	Required Top Assembly Part Number	Material Discrimination	# of Views	Capacity	Operating Voltage	Max Voltage	Date Approved
VMI Security	Spectrum 180180DV (320kV)	27.04.00389	Y	Dual View	C	310kV	320kV	05/10/2022
VMI Security	Spectrum 6040DV	27.04.00342	Y	Dual View	A	170kV	170kV	04/01/2022
VMI Security	Spectrum 100100HDV	27.04.00377	Y	Dual View	B	170kV	170kV	04/01/2022

2.3 Grandfathered Visual Image Technology

The Grandfathered Technology section specifies devices that are currently qualified to screen cargo but have a stated expiration date. This allows regulated parties who are using the grandfathered technology an opportunity to gradually phase out the device and transition to devices listed in the Qualified or Approved sections. Due to this fact, regulated parties should not purchase devices from this section; rather, they should reference the Qualified or Approved sections for their procurement needs.

Grandfathered Configurations for “hardware and software” are defined as the hardware configuration and any associated software version is grandfathered. Grandfathered Configurations for “software only” are defined as a particular software version is grandfathered; other Approved/Qualified software versions are available for this hardware configuration

Vendor	Device Model Number	Required Top Assembly Part Number	Material Discrimination	# of Views	Capacity	Operating Voltage	Max Voltage	Grandfathered Configuration	Expiration Date
Rapiscan Systems	620DV	620DVLHS-STND	Y	Dual View	A	160 kV	180 kV	Hardware and Software	12/31/2028
		620DVRHS-STND							
Rapiscan Systems	627DV	627DV-STND	Y	Dual View	B	160 kV	180 kV	Hardware and Software	12/31/2028
		627DVE							
Rapiscan Systems	628DV	628DV-STND	Y	Dual View	B	160 kV	180 kV	Hardware and Software	12/31/2028
Rapiscan Systems	632DV	632DV200	Y	Dual View	C	200 kV	200 kV	Hardware and Software	12/31/2028

Vendor	Device Model Number	Required Top Assembly Part Number	Material Discrimination	# of Views	Capacity	Operating Voltage	Max Voltage	Grandfathered Configuration	Expiration Date
		632DV-STND							
		632DVE							
Rapiscan Systems	638DV	638DV200	Y	Dual View	C	200 kV	200 kV	Hardware and Software	12/31/2028
		638DV-STND							
		638DV300	Y	Dual View	C	320 kV	320 kV	Hardware and Software	12/31/2028
Rapiscan Systems	927DX	2010013	Y	Dual View	B	160kV	180kV	Hardware and Software	12/31/2041
		2010014							
		2010015							
		2010016							
		2010017							
		2010018							
Rapiscan Systems	928DX	2010019	Y	Dual View	B	160kV	180kV	Hardware and Software	12/31/2041
		2010020							
		2010021							
		2010022							
		2010023							
		2010024							

Notes:

3 Explosive Trace Detection (ETD) Devices

Technology Description: Desktop or handheld devices that detect explosive residual material on typical cargo substrates through the application and analysis of a swab-based collection process.

Refer to Appendix A, TSA's Trace Consumables List (TCL) for the TSA-approved third-party ETD Trace Consumables vendors.

3.1 Qualified ETD Technology

The Qualified Technology section specifies devices that have undergone a formal TSA-sponsored test process and are deemed qualified for screening operations. When procuring a device from the ACSTL, regulated parties are encouraged to select a device from the qualified technology section.

There are currently no systems in the Qualified ETD Technology section.

Vendor	Device Model Number	Required Top Assembly Part Number	Configuration Tested	Date Qualified

Notes:

3.2 Approved ETD Technology

The Approved Technology section specifies devices that have been conditionally approved for screening operations and are currently undergoing - or are scheduled for - field test activities. These devices have up to 36 months from the date added to the Approved Technology section to successfully pass TSA's suitability-based field test activities. If a device is unable to pass field test activities within the prescribed 36 months, it will be removed from the Approved Technology section. Due to this fact, regulated parties who procure a device from the Approved Technology section do so at their own risk. Additional technologies may be added to the list at TSA's discretion.

Vendor	Device Model Number	Required Top Assembly Part Number	Configuration Tested (1)	Date Approved
Rapiscan Systems	Itemiser 5X (IT5X)	P0007018-018-CAR	No Wand	11/19/2020

Notes:

- (1) Specification of "Wand" indicates a wand is required to operate the device while specification of "No Wand" indicates a wand must not be used to operate the device.

3.3 Grandfathered ETD Technology

The Grandfathered Technology section specifies devices that are currently qualified to screen cargo but have a stated expiration date. This allows regulated parties who are using the grandfathered technology an opportunity to gradually phase out the device and transition to devices listed in the Qualified or Approved sections. Due to this fact, regulated parties should not purchase devices from this section; rather, they should reference the Qualified or Approved sections for their procurement needs.

Grandfathered Configurations for “hardware and software” are defined as the hardware configuration and any associated software version is grandfathered. Grandfathered Configurations for “software only” are defined as a particular software version is grandfathered; other Approved/Qualified software versions are available for this hardware configuration

Vendor	Device Model Number	Required Top Assembly Part Number	Configuration Tested (1)	Grandfathered Configuration	Expiration Date
Leidos (2) (3)	QS-B220	10011225 Rev. E, F, G, H, J, K, L, M, or N	No Wand	Hardware and Software	12/31/2024
		QS-B220-001 Rev. A, B, C, D, or E			
Rapiscan Systems (4)	Itemiser DX	P0007018-014-CAR Rev. 2	No Wand	Hardware and Software	12/31/2024
		P0007018-014-CAR-R			
Smiths Detection, Inc.	IONSCAN 500DT	IONSCAN 500DT	Wand/No Wand (6)	Hardware and Software	12/31/2024
Smiths Detection, Inc. (2)	IONSCAN 600	4824000E-301-2	No Wand	Hardware and Software	12/31/2024 (8)
		4824000E-301-3 (7)			10/31/2023

Notes:

- (1) Specification of “Wand” indicates a wand is required to operate the device while specification of “No Wand” indicates a wand must not be used to operate the device.
- (2) This model has a non-radioactive source thus annual radiation testing is not required.

- (3) Implant Sciences Corporation was acquired by L3 Security & Detection Systems, now Leidos. Either company's data plate is acceptable as long as the Top Assembly Part Number matches the number listed in the Grandfathered section.
- (4) General Electric Homeland Protection was acquired by Morpho Detection; Morpho Detection's ETD business was subsequently acquired by Rapiscan Systems. All three companies' data plates are acceptable as long as the Top Assembly Part Number matches the number listed in the Grandfathered section.
- (5) The correct configuration will include Detection Parameters and one of the five software versions listed. TSA-AC-9822691-Alt Exp-RevB is the current version of the Detection Parameters.
- (6) This device can be used with or without a wand.
- (7) Configuration authorized for Field Assessment units only: SN 65873, 65970, 91798, 66602, and 91729
- (8) Extension of IONSCAN 600 4824000E-301-2 Expiration Date per Technical Bulletin 040.

4 Metal Detection (MD) Devices

Technology Description: Devices that interrogate items under inspection with a time varying electromagnetic field. Secondary magnetic disturbances induced by the primary field are detected by the MD, and an alarm condition is displayed if threshold levels have been exceeded.

Technology Classification: This technology is classified by three designations: type, class, and capacity (see below for descriptions). Although a device can only be classified into one type and capacity, it can be qualified for more than one class.

Type Designations	
ID	Description
Type I	General Detection Capability – Capable of detecting threats without any indication of threat location.
Type II	Detection Plus Localizing Capability – Capable of detecting threats and providing visual cues for the location of detected threats.

Class Designations		
ID	Description	Examples
1	Printed Matter (PM)	Newspapers, Books, Magazines, Flyers.
2 (1)	Electronic Equipment (EE)	Digital Clocks, Sandwich Makers, Blow Dryers, Computers, Personal Digital Assistants.
3 (1)	Machine Parts (MP)	Auto Parts, Aircraft Starters, Car Jacks, Food Graters.
4 (1)	Misc. Durable Goods (MDG)	Home Renovation Materials, Canned Goods, Furniture.
5	Wearing Apparel (WA)	Clothing, Shoes, Handbags, Jackets.
6	Fresh Produce (FP)	Grapefruit, Pineapple, Cucumbers.
7	Fresh Flowers (FF)	Various Tubers and Bulbs, Annual and Perennial Flowers, Cut Flowers.
8	Fish and Meats (FM)	Shrimp, Fish, Beef, Poultry.

Notes:

- (1) These commodity classes are expected to contain trace or significant amounts of metallic materials, and hence are not suitable for metal screening.

Capacity Designations (1)	
ID	Description
A	Small Aperture – Can accommodate screening of air cargo with an item size of at least 49 cm (19.3 in.) wide by 38 cm (15 in.) high by 91 cm (35.8 in.) long and 50 kg (110.2 lbs.) in weight and up to 80 cm (31.5 in.) wide by 60 cm (23.6 in.) high by 120 cm (47.2 in.) long and 100 kg (220.5 lbs.) in weight.
B	Medium Aperture – Can accommodate screening of air cargo with an item size of at least 80 cm (31.5 in.) wide by 60 cm (23.6 in.) high by 120 cm (47.2 in.) long and 100 kg (220.5 lbs.) in weight and up to 122 cm (48 in.) wide by 153 cm (60.2 in.) high by 122 cm (48 in.) long and 1,000 kg (2,205 lbs.) in weight.
C	Large Aperture – Can accommodate screening of air cargo with an item size of at least 122 cm (48 in.) wide by 153 cm (60.2 in.) high by 122 cm (48 in.) long and 1,000 kg (2,205 lbs.) in weight.

Notes:

- (1) The capacity listing is for testing and informational purposes only.

4.1 Qualified MD Technology

The Qualified Technology section specifies devices that have undergone a formal TSA-sponsored test process and are deemed qualified for screening operations. When procuring a device from the ACSTL, regulated parties are encouraged to select a device from the qualified technology section.

Vendor	Device Model Number	Required Top Assembly Part Number	Class 1 (PM)	Class 5 (WA)	Class 6 (FP)	Class 7 (FF)	Class 8 (FM)	Type	Capacity	Date Qualified
CEIA USA (2)	EMIS 6047	EMIS6047	YES	YES	YES	YES	YES	I	A	03/13/2013
		EMIS_6047_001								
CEIA USA (2)	EMIS 8075	EMIS8075	YES	YES	YES	YES	YES	I	B	03/13/2013
		EMIS_8075_001								
		EMIS_8075_002								
CEIA USA (2)	EMIS 110160	EMIS_110160_001	YES	YES	YES	YES	YES	I	B	03/13/2013
CEIA USA (2)	EMIS 130160	EMIS_130160_001	NO	NO	YES	YES	YES	I	C	03/13/2013
CEIA USA (2)	EMIS 130200	EMIS_130200_002	YES	YES	YES	YES	YES	I	C	05/10/2018

Notes:

- (1) "YES" indicates the commodity classes for which each EMD device passed Stage I testing. "NO" indicates the commodity classes for which each EMD device did not pass Stage I testing.
- (2) CEIA models must contain all three software components listed.

4.2 Approved MD Technology

The Approved Technology section specifies devices that have been conditionally approved for screening operations and are currently undergoing - or are scheduled for - field test activities. These devices have up to 36 months from the date added to the Approved Technology section to successfully pass TSA's suitability-based field test activities. If a device is unable to pass field test activities within the prescribed 36 months, it will be removed from the Approved Technology section. Due to this fact, regulated parties who procure a device from the Approved Technology section do so at their own risk. Additional technologies may be added to the list at TSA's discretion.

There are currently no systems in the Approved MD Technology section.

Vendor	Device Model Number	Required Top Assembly Part Number	Class 1 (PM)	Class 5 (WA)	Class 6 (FP)	Class 7 (FF)	Class 8 (FM)	Type	Capacity	Date Approved

Notes:

4.3 Grandfathered MD Technology

The Grandfathered Technology section specifies devices that are currently qualified to screen cargo but have a stated expiration date. This allows regulated parties who are using the grandfathered technology an opportunity to gradually phase out the device and transition to devices listed in the Qualified or Approved sections. Due to this fact, regulated parties should not purchase devices from this section; rather, they should reference the Qualified or Approved sections for their procurement needs.

Grandfathered Configurations for “hardware and software” are defined as the hardware configuration and any associated software version is grandfathered. Grandfathered Configurations for “software only” are defined as a particular software version is grandfathered; other Approved/Qualified software versions are available for this hardware configuration

Vendor	Device Model Number	Required Top Assembly Part Number	Class 1 (PM)	Class 5 (WA)	Class 6 (FP)	Class 7 (FF)	Class 8 (FM)	Type	Capacity	Grandfathered Configuration	Expiration Date
Mettler-Toledo Safeline	SL 2000 A	176Y7692	YES	YES	YES	YES	YES	I	A	Hardware and Software	06/13/2025
Mettler-Toledo Safeline	SL 2000 B	176W7692	YES	YES	YES	YES	YES	I	B	Hardware and Software	06/13/2025

Notes:

- (1) “YES” indicates the commodity classes for which each MD device passed Stage I testing. “NO” indicates the commodity classes for which each EMD device did not pass Stage I testing.

5 Explosive Detection Systems (EDS)

Technology Description: Devices that use computed tomography and sophisticated algorithms to automatically detect explosive materials.

5.1 Qualified EDS Technology

The Qualified Technology section specifies devices that have undergone a formal TSA-sponsored test process and are deemed qualified for screening operations. When procuring a device from the ACSTL, regulated parties are encouraged to select a device from the qualified technology section.

There are currently no systems in the Qualified EDS Technology section.

Vendor	Device Model Number	Required Top Assembly Part Number	Date Qualified

Notes:

5.2 Approved EDS Technology

The Approved Technology section specifies devices that have been conditionally approved for screening operations and are currently undergoing - or are scheduled for - field test activities. These devices have up to 36 months from the date added to the Approved Technology section to successfully pass TSA's suitability-based field test activities. If a device is unable to pass field test activities within the prescribed 36 months, it will be removed from the Approved Technology section. Due to this fact, regulated parties who procure a device from the Approved Technology section do so at their own risk. Additional technologies may be added to the list at TSA's discretion.

Vendor	Device Model Number	Required Top Assembly Part Number	Date Approved
Rapiscan Systems	RTT110	RTT110-TSA	10/17/2019 (1)
Smiths Detection, Inc.	HS 10080 XCT	34453300	01/19/2022

Notes:

(1) Rapiscan RTT110 extended to 10/17/2023 per Technical Bulletin 038, EDS Technology Approval Extension.

5.3 Grandfathered EDS Technology

The Grandfathered Technology section specifies devices that are currently qualified to screen cargo but have a stated expiration date. This allows regulated parties who are using the grandfathered technology an opportunity to gradually phase out the device and transition to devices listed in the Qualified or Approved sections. Due to this fact, regulated parties should not purchase devices from this section; rather, they should reference the Qualified or Approved sections for their procurement needs.

Grandfathered Configurations for “hardware and software” are defined as the hardware configuration and any associated software version is grandfathered. Grandfathered Configurations for “software only” are defined as a particular software version is grandfathered; other Approved/Qualified software versions are available for this hardware configuration

There are currently no systems in the Grandfathered EDS Technology section

Vendor	Device Model Number	Required Top Assembly Part Number	Grandfathered Configuration	Expiration Date

Notes:

6 Carbon Dioxide (CO2) Monitors

Technology Description: Handheld or portable devices that collect air samples and evaluate the concentration of carbon dioxide to detect the presence of a concealed human in a tendered cargo item.

6.1 Qualified CO2 Monitor Technology

The Qualified Technology section specifies devices that have undergone a formal TSA-sponsored test process and are deemed qualified for screening operations. When procuring a device from the ACSTL, regulated parties are encouraged to select a device from the qualified technology section.

Vendor	Device Model Number	Required Top Assembly Part Number	Date Qualified
Armstrong Monitoring	AMC-CD-2	AMC-CD-2	8/27/2010
InstroTek, Inc.	Guard 1	1010000	8/27/2010

Notes:

6.2 Approved CO2 Monitor Technology

The Approved Technology section specifies devices that have been conditionally approved for screening operations and are currently undergoing - or are scheduled for - field test activities. These devices have up to 36 months from the date added to the Approved Technology section to successfully pass TSA's suitability-based field test activities. If a device is unable to pass field test activities within the prescribed 36 months, it will be removed from the Approved Technology section. Due to this fact, regulated parties who procure a device from the Approved Technology section do so at their own risk. Additional technologies may be added to the list at TSA's discretion.

There are currently no systems in the Approved CO2 Monitor Technology section.

Vendor	Device Model Number	Required Top Assembly Part Number	Date Approved

Notes:

6.3 Grandfathered CO2 Monitor Technology

The Grandfathered Technology section specifies devices that are currently qualified to screen cargo but have a stated expiration date. This allows regulated parties who are using the grandfathered technology an opportunity to gradually phase out the device and transition to devices listed in the Qualified or Approved sections. Due to this fact, regulated parties should not purchase devices from this section; rather, they should reference the Qualified or Approved sections for their procurement needs.

Grandfathered Configurations for “hardware and software” are defined as the hardware configuration and any associated software version is grandfathered. Grandfathered Configurations for “software only” are defined as a particular software version is grandfathered; other Approved/Qualified software versions are available for this hardware configuration

There are currently no systems in the Grandfathered CO2 Monitor Technology section.

Vendor	Device Model Number	Required Top Assembly Part Number	Grandfathered Configuration	Expiration Date

Notes:

Appendix A: Trace Consumables

To ensure that Explosive Trace Detection (ETD) units operate at a level of maximum effectiveness in detecting explosives, TSA requires that all consumables purchased for screening air cargo either appear on the Trace Consumables List (TCL) or be supplied by the manufacturer of the ETD device. TSA expresses no preference for manufacturer-supplied consumables or for third-party-supplied consumables.

The TCL identifies third-party ETD consumable items tested by TSA and found to have comparable performance to similar type consumables supplied by the security system manufacturers. Third party consumable items not on the TCL either did not pass the TSA evaluation or were not tested by TSA.

Third-Party Consumables Vendors

Contact information for vendors appearing in the TCL is listed below in alphabetical order.

Company	Address	Phone	Website
DSA Detection	120 Water Street, Suite 211 N. Andover, MA 01845	(978) 975-3200	www.dsadetection.com
ETD Direct, LLC	1121 Route 34, Suite N-404 Aberdeen, NJ 07747	(908) 614-7835	www.etddirect.com
Microsilver Wear, Inc.	601 Route 206, Suite 26-330 Hillsborough, NJ 08844	(908) 698-4421	www.microsilverinc.com
Princeton Security Technologies	2925 State Road Croydon, PA 19021-6960	(609) 915-9700 (215) 458-4181	www.princetonsecuritytechnologies.com
US Testing Equipment, LTD	7201 NE 18 th St., Suite A Vancouver, WA 98661	(888) 687-8378	www.ustesting.com

Trace Consumables List

Model	Manufacturer	Item Description	Part Number	Supplier
IONSCAN 500DT	Smiths Detection	Condenser Tube Kit with Gaskets	DCK7658	DSA Detection
IONSCAN 500DT	Smiths Detection	Condenser Tube	DCT6686	DSA Detection
IONSCAN 500DT	Smiths Detection	Hand Swab (200ct)	DSW1210P	DSA Detection
IONSCAN 500DT	Smiths Detection	Hand Swab (200ct)	500DT – Manual or SD1201	ETD Direct
IONSCAN 500DT	Smiths Detection	Hand Swab (200ct)	Manual/DT	Microsilver
IONSCAN 500DT	Smiths Detection	Printer Paper	DPP8047	DSA Detection
IONSCAN 500DT	Smiths Detection	Printer Ribbon	DPR4728	DSA Detection
IONSCAN 500DT	Smiths Detection	Sample Swab 500DT (200ct)	Swab/DT	Microsilver
IONSCAN 500DT	Smiths Detection	Sample Swab (200ct)	TDT000500DT	US Testing Equipment, LTD
IONSCAN 500DT	Smiths Detection	Sample Swab, Nomex	PST-N101	Princeton Security Technologies
IONSCAN 500DT	Smiths Detection	Sample Swab, 500DT (200ct)	DSW8055P	DSA Detection
IONSCAN 500DT	Smiths Detection	Verification Pen, 500DT	DVP1883	DSA Detection
IONSCAN 500DT	Smiths Detection	Verification Pen	DTV-Pen or SD3203	ETD Direct
IONSCAN 500DT	Smiths Detection	Veri-Tek Pen	PST VT-101	Princeton Security Technologies
Itemiser 5X	Rapiscan Systems	Flow Meter	M0001931	US Testing Equipment, LTD
Itemiser 5X	Rapiscan Systems	Kit, Lamps, Itemiser 5X	K1000200	US Testing Equipment, LTD
Itemiser 5X	Rapiscan Systems	Product Accessory, Nozzle Screen Kit, Itemiser 5X	PA005379	US Testing Equipment, LTD
Itemiser 5X	Rapiscan Systems	Assy, Dopant, Ammonium Carbamate, G-CAL, In Packaging	101018182	US Testing Equipment, LTD

Model	Manufacturer	Item Description	Part Number	Supplier
Itemiser 5X	Rapiscan Systems	Assy, Dopant, Dichloromethane, G-CAL, In Packaging	101018180	US Testing Equipment, LTD
Itemiser 5X	Rapiscan Systems	Assy, Dopant, Toluene, G-CAL, In Packaging	101018184	US Testing Equipment, LTD
Itemiser 5X	Rapiscan Systems	Calibrant, Internal, Methyl Salicylate	MP100973	US Testing Equipment, LTD
Itemiser 5X	Rapiscan Systems	Assy, HV Lamp Extraction Tool, IT 4DX	M1000365	US Testing Equipment, LTD
Itemiser 5X	Rapiscan Systems	Assy, Single Flow Meter, Itemiser 5X	101032440	US Testing Equipment, LTD
Itemiser 5X	Rapiscan Systems	Filter Element, In-Line Air Filter, 12MMX8MMX20MML	MP101671	US Testing Equipment, LTD
Itemiser DX	Rapiscan Systems	5 Micron Filter	FE3224	DSA Detection
Itemiser DX	Rapiscan Systems	5 Micron Filter	MP003244	US Testing Equipment, LTD
Itemiser DX	Rapiscan Systems	50ct Individually Wrapped Isopropyl Wipes	MP075037	US Testing Equipment, LTD
Itemiser DX	Rapiscan Systems	50ct Individually Wrapped Isopropyl Wipes	SW7507	DSA Detection
Itemiser DX	Rapiscan Systems	Bumper Feet	BF1702	DSA Detection
Itemiser DX	Rapiscan Systems	Bumper Feet	MP017022	US Testing Equipment, LTD
Itemiser DX	Rapiscan Systems	Calibration Traps (100ct), Multi-purpose	CT1319P	DSA Detection
Itemiser DX	Rapiscan Systems	Calibration Traps (100ct)	MD-1965-100	ETD Direct
Itemiser DX	Rapiscan Systems	Calibration Traps (25ct), Multi-purpose	CT1317P	DSA Detection
Itemiser DX	Rapiscan Systems	Calibration Traps (Teflon) 100ct	M0001964-100	US Testing Equipment, LTD
Itemiser DX	Rapiscan Systems	Calibration Traps (Teflon) 25ct	M0001964-25	US Testing Equipment, LTD
Itemiser DX	Rapiscan Systems	Canned Air	CA7503	DSA Detection
Itemiser DX	Rapiscan Systems	Canned Air	MP075003	US Testing Equipment, LTD
Itemiser DX	Rapiscan Systems	Chemical, Positive Dopant, Ammonia, Crystal, 5-Mo Life	MP035087	US Testing Equipment, LTD
Itemiser DX	Rapiscan Systems	Clearing Spray	CS1831	DSA Detection
Itemiser DX	Rapiscan Systems	Clearing Spray	M0001831	US Testing Equipment, LTD
Itemiser DX	Rapiscan Systems	Clearing Spray	MD1831	ETD Direct
Itemiser DX	Rapiscan Systems	Cotton Gloves (12/pack)	GL7500	DSA Detection
Itemiser DX	Rapiscan Systems	Cotton Gloves (12/pack)	MP075000	US Testing Equipment, LTD
Itemiser DX	Rapiscan Systems	Dopant, Explosives (1/Instrument)	MP005810	US Testing Equipment, LTD
Itemiser DX	Rapiscan Systems	E-Mode Dopant (Permeation Device)	D5810	DSA Detection
Itemiser DX	Rapiscan Systems	Fan Filter Guard	FG7125	DSA Detection

Model	Manufacturer	Item Description	Part Number	Supplier
Itemiser DX	Rapiscan Systems	Fan Filter Guard	MP007125	US Testing Equipment, LTD
Itemiser DX	Rapiscan Systems	Filter, Sintered 316 SS (with FW9556)	MP003223	US Testing Equipment, LTD
Itemiser DX	Rapiscan Systems	Filter, Sintered 316 SS (with FW9556)	SF3223	DSA Detection
Itemiser DX	Rapiscan Systems	Foam Filter	FF3222	DSA Detection
Itemiser DX	Rapiscan Systems	Foam Filter	MP003222	US Testing Equipment, LTD
Itemiser DX	Rapiscan Systems	Fuse, 3.15V, Type T	EP002500	US Testing Equipment, LTD
Itemiser DX	Rapiscan Systems	Fuse, 3.15V, Type T	FS2500	DSA Detection
Itemiser DX	Rapiscan Systems	Fuse 15A, 32V, 3AG for DC input	EP002525	US Testing Equipment, LTD
Itemiser DX	Rapiscan Systems	Fuse 15A, 32V, 3AG f or DC input	FS2525	DSA Detection
Itemiser DX	Rapiscan Systems	Maintenance Kit	MK5286	DSA Detection
Itemiser DX	Rapiscan Systems	Maintenance Kit	PA005286	US Testing Equipment, LTD
Itemiser DX	Rapiscan Systems	Membrane Tool Probe Stick	MP055226	US Testing Equipment, LTD
Itemiser DX	Rapiscan Systems	Membrane Tool Probe Stick	MS5226	DSA Detection
Itemiser DX	Rapiscan Systems	Narcotics, Long Life Dopant	D5087	DSA Detection
Itemiser DX	Rapiscan Systems	Nozzle Screen Kit, Itemiser DX	NK5282	DSA Detection
Itemiser DX	Rapiscan Systems	Nozzle Screen Kit, Itemiser DX	PA005282	US Testing Equipment, LTD
Itemiser DX	Rapiscan Systems	O-Ring, Size 11, KALREZ Compound 4079, Duro	MP011191	US Testing Equipment, LTD
Itemiser DX	Rapiscan Systems	O-Ring, Size 11, KALREZ Compound 4079, Duro	OR1191	DSA Detection
Itemiser DX	Rapiscan Systems	O-Ring .176 ID	MP011008	US Testing Equipment, LTD
Itemiser DX	Rapiscan Systems	O-Ring .176 ID	OR1108	DSA Detection
Itemiser DX	Rapiscan Systems	PTFE Tubing	MP008043	US Testing Equipment, LTD
Itemiser DX	Rapiscan Systems	PTFE Tubing	TU8043	DSA Detection
Itemiser DX	Rapiscan Systems	Sample Swabs (100ct)	Multi/DX	Microsilver
Itemiser DX	Rapiscan Systems	Sample Swabs (100ct)	TRAPDX	Microsilver
Itemiser DX	Rapiscan Systems	Sample Swabs (100ct)	DX-Swab or MD1964	ETD Direct
Itemiser DX	Rapiscan Systems	Sample Swabs High Performance (100ct)	M0002057	US Testing Equipment, LTD
Itemiser DX	Rapiscan Systems	Sample Traps (100ct), Multi-purpose	ST1318P	DSA Detection
Itemiser DX	Rapiscan Systems	Sample Traps (25ct), Multi-purpose	ST1316P	DSA Detection

Model	Manufacturer	Item Description	Part Number	Supplier
Itemiser DX	Rapiscan Systems	Sample Traps (Teflon) 100ct	M0001965-100	US Testing Equipment, LTD
Itemiser DX	Rapiscan Systems	Sample Traps (Teflon) 25ct	M0001965-25	US Testing Equipment, LTD
Itemiser DX	Rapiscan Systems	Saturated Swabs	MP075002	US Testing Equipment, LTD
Itemiser DX	Rapiscan Systems	Saturated Swabs	SS7502	DSA Detection
Itemiser DX	Rapiscan Systems	Saturated Wipes	MP075001	US Testing Equipment, LTD
Itemiser DX	Rapiscan Systems	Saturated Wipes	SW7501	US Testing Equipment, LTD
Itemiser DX	Rapiscan Systems	Silastic Tubing	MP008047	US Testing Equipment, LTD
Itemiser DX	Rapiscan Systems	Silastic Tubing	TU8047	DSA Detection
Itemiser DX	Rapiscan Systems	Spare Kit	PA005254	US Testing Equipment, LTD
Itemiser DX	Rapiscan Systems	Spare Kit	SK5284	DSA Detection
Itemiser DX	Rapiscan Systems	Thermal Printer Paper Roll	PA005060	US Testing Equipment, LTD
Itemiser DX	Rapiscan Systems	Thermal Printer Paper Roll	PP5060	DSA Detection
Itemiser DX	Rapiscan Systems	Verification Traps (100ct)	VT1336P	DSA Detection
Itemiser DX	Rapiscan Systems	Verification Traps (100ct)	MD-1966-100	ETD Direct
Itemiser DX	Rapiscan Systems	Verification Traps (25ct)	VT1337P	DSA Detection
Itemiser DX	Rapiscan Systems	Verification Traps (Teflon) 100ct	M0001966-100	US Testing Equipment, LTD
Itemiser DX	Rapiscan Systems	Verification Traps (Teflon) 25ct	M0001966-25	US Testing Equipment, LTD
QS B220	Leidos	Calibration Trap	CT1272	DSA Detection
QS B220	Leidos	Calibration Trap	IS1272-25	ETD Direct
QS B220	Leidos	Dual Mode Verification Swab (A Negative and B Positive)	VT1272	DSA Detection
QS B220	Leidos	Molecular Sieve Canister	BSC1329	DSA Detection
QS B220	Leidos	Positive Verification Tin	BSB1035	DSA Detection
QS B220	Leidos	Sample Swabs (100ct)	ST1269P	DSA Detection
QS B220	Leidos	Sample Swabs	IS1000-100 Rev E	ETD Direct
QS B220	Leidos	Sample Swabs (100ct)	SWB/220	Microsilver
QS B220	Leidos	Sample Trap	ST1269	DSA Detection
QS B220	Leidos	Sieve Canister, QS-B220	MSC-220	Microsilver
QS B220	Leidos	Sieve Canister, single	IS1329	ETD Direct

Model	Manufacturer	Item Description	Part Number	Supplier
QS B220	Leidos	Sieve Canister, 4 pack	IS0023	ETD Direct
QS B220	Leidos	Verification Pen Kit, A (Neg) and B (Pos)	ISV1482PK	ETD Direct
QS B220	Leidos	Verification Pen, Sample A (Neg)	ISV0156P	ETD Direct
QS B220	Leidos	Verification Pen, Sample B (Pos)	ISV1326P	ETD Direct
QS B220	Leidos	Verification Sample A (Negative)	BSA1030	DSA Detection
QS B220	Leidos	Verification Sample A, Negative mode	VSA/N	Microsilver
QS B220	Leidos	Verification Sample B, Positive mode	VSB/P	Microsilver