

## **TSA Air Cargo Screening Technology List (ACSTL)**

### **Version 10.1 – 08/02/2016**

**Document Purpose:** This document serves as an official guide for regulated parties to use when procuring screening equipment in accordance with TSA approved security programs. Any technology purchased off this list must be utilized in accordance with measures outlined in a screener's Standard Security Program. This list does not apply to equipment owned by TSA or equipment used in TSA sponsored tests or test beds.

**Document Format:** The document is divided into three sections: a qualified technology section, an approved technology section, grandfathered technology section, and Appendix A: Trace Consumable List for third party supplied consumables. 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 on the specified expiration date. 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.

**Disclaimer:** The approved technology section reflects devices which have successfully passed Stage I of the qualification testing process. TSA reserves the right to remove devices from this section if the device fails Stage II test activities. The grandfathered technology section reflects devices which 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 in the grandfathered section, 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.

**Note:** The Top Assembly Part Number is the only qualified configuration for each Device Model Number. Models with different part numbers are not considered qualified screening devices.

**NON-Sensitive Security Information (SSI)  
Version of the  
TSA Air Cargo Screening Technology List (ACSTL)**

Vendor points of contact are listed below by alphabetical order:

<b>Vendor</b>	<b>Point of Contact</b>	<b>Phone Number</b>	<b>Email</b>
Armstrong Monitoring	Scott Bissett	613-225-9531	sbissett@armstrongmonitoring.com
AS&E	Dave Montion	978-862-8638	dmontion@as-e.com
Astrophysics	Simon Bedford	858-774-8432	sbedford@astrophysicsinc.com
CEIA	Luca Cacioli	330-405-3190	lcacioli@ceia-usa.com
AUTOCLEAR	Ken Voigtland	973-296-9531	kenv@a-clear.com
ERIEZ	John Klinge	814-835-6328	jklinge@eriez.com
<b>Gilardoni</b>	<b>Luca Ghislanzoni</b>	<b>011-39-034-170-5111</b>	<b>lg@Gilardoni.IT</b>
Implant Sciences Corporation	Todd Silvestri	978-752-1700	tsilvestri@implantsciences.com
InstroTek	Ali Regimand	919-875-8371	aregimand@instrotek.com
L-3	Stacy Sayers	801-627-2009	Stacy.Sayers@l-3com.com
Mettler-Toledo Safeline	Chris Acierno	800-477-4439 ext. 5567	Chris.Acierno@mt.com
Morpho Detection	Jennifer Haigh	603-289-1304	jhaigh@morphodetection.com
Nuctech	Tao Yin	86 13 9112 90208	yintao@nuctech.com
Rapiscan	Jerek Knight	571-227-6775	JKnight@rapiscansystems.com
Reveal	Stan DeFilippis	202-361-3338	stan.defilippis@leidos.com
Smiths Detection	Luke Olsen	703-203-7782	luke.olsen@smithsdetection.com

**1 – Version Updates**

- A. Pg. 1 Updated point of contact information for Gilardoni.**
- B. Pg. 2 Reinstated Rapiscan TAPN 620DVRHS-AT, 620DVLHS-AT, 627DV-W115, 628DV115, and 632DV200 in the Qualified X-ray Section.**

**NON-Sensitive Security Information (SSI)  
Version of the  
TSA Air Cargo Screening Technology List (ACSTL)**

**Qualified Technology:** The following list of Non-Computed Tomography (Non-CT) Transmission X-ray Devices, Explosive Trace Detection (ETD) Devices, Explosive Detection Systems (EDS), Carbon Dioxide (CO<sub>2</sub>) Monitors, and Electronic Metal Detection (EMD) Devices specifies devices which have undergone a formal TSA sponsored test process and are qualified for screening operations. When procuring a device from the ACSTL, regulated parties are encouraged to select equipment from the qualified technology section.

**Non-Computed Tomography (Non-CT) Transmission X-ray Devices  
(Qualified Section)**

Vendor	Device Model Number	Required Top Assembly Part Number	Material Discrimination	# of View <sup>1</sup>	Capacity	Date Qualified
Astrophysics Inc.	XIS-100XDV	00-13-1XDV-21	Y	Dual View	B	10/23/2009
Astrophysics Inc.	XIS-100XDX	00-22-1XDX-11 00-22-10DX-11	Y	Dual View	B	08/09/2012
Astrophysics Inc.	XIS-1517DV 200kV	00-22-15DV-20	Y	Dual View	C	08/09/2012
Astrophysics Inc.	XIS-1818DV 200kV	00-22-18DV-20	Y	Dual View	C	08/09/2012
Astrophysics Inc.	XIS-1818DV 320kV	00-00-18DV-23	Y	Dual View	C	12/12/2012
Astrophysics Inc.	XIS-6545DV	00-13-65DV-21	Y	Dual View	A	10/23/2009
Gilardoni	FEP ME 755 AMX	05141096	Y	Dual View	A	10/23/2014
L-3	ACX 6.4 MV	1000-MV3AC-00	Y	Multi View	A	10/23/2009
L-3	CX 6000 P DV	002	N	Dual View	C	05/14/2010
L-3	MVT-HR	1000-10001-HR 1000-10002-HR	Y	Multi View	B	02/03/2010
L-3	PX 10.10 MV	1000-P1010-2V 1000-P1010-AC	Y	Dual View	B	08/09/2012
L-3	PX 15.17 MV 200kV	0125-10732-00	Y	Dual View	C	08/09/2012
L-3	PX 18.18 MV 200kV	0125-10734-00	Y	Dual View	C	08/09/2012
L-3	PX 18.18 MV 320kV	0125-10735-00	Y	Dual View	C	12/12/2012
Morpho Detection <sup>2</sup>	HRX 1000 DV	P0007033-011	Y	Dual View	B	05/14/2010
Rapiscan	620 DV	<b>620DVRHS-AT</b> <b>620DVLHS-AT</b> 620DVRHS-STND 620DVLHS-STND	Y	Dual View	A	10/23/2009
Rapiscan	627 DV	<b>627DV-W115</b> 627DV-STND 627DVE	Y	Dual View	B	10/23/2009
Rapiscan	628 DV	<b>628DV115</b> 628DV-STND	N	Dual View	B	05/14/2010
Rapiscan	632 DV	<b>632DV200</b> 632DV-STND 632DVE	Y	Dual View	C	10/23/2009
Rapiscan	638 DV	638DV200 638DV-STND	Y	Dual View	C	10/23/2009
Rapiscan	638DV300	638DV300	Y	Dual View	C	06/23/2016
Rapiscan	MVXR 5000	2010659-6	Y	Multi View	B	02/03/2010
Smiths Detection	6040-2is	HS 6040-2is	Y	Dual View	A	08/27/2015
Smiths Detection	6040aTiX	HS 6040aTiX	Y	Dual View	A	10/23/2009
Smiths Detection	6040aX	HS 6040aX	Y	Dual View	A	08/09/2012

**NON-Sensitive Security Information (SSI)  
Version of the  
TSA Air Cargo Screening Technology List (ACSTL)**

Vendor	Device Model Number	Required Top Assembly Part Number	Material Discrimination	# of View <sup>1</sup>	Capacity	Date Qualified
Smiths Detection	7555aTiX	HS 7555aTiX	Y	Dual View	A	05/14/2010
Smiths Detection	7555aX	HS 7555aX	Y	Dual View	A	08/09/2012
Smiths Detection	10080 EDtS	HS 10080 EDtS	Y	Multi View	B	10/23/2009
Smiths Detection	10080 EDX-2is	HS 10080 EDX-2is	Y	Dual View	B	10/23/2009
Smiths Detection	100100T-2is	HS 100100T-2is	Y	Dual View	B	10/23/2009
Smiths Detection	100100V-2is	HS 100100V-2is	Y	Dual View	B	08/09/2012
Smiths Detection	130130T-2is	HS 130130T-2is	Y	Dual View	B	10/23/2009
Smiths Detection	145180-2is	HS 145180-2is	Y	Dual View	C	4/25/2013
Smiths Detection	180180-2is	HS 180180-300kV-2is	N	Dual View	C	10/23/2009

Capacity Designations <sup>3</sup>	
ID	Description
A	Small Aperture - Can accommodate screening of air cargo up to and including an item size of 49cm (19.3in) wide by 38cm (15in) high by 91cm (35.8in) long and 50kg (110.2lbs) in weight.
B	Medium Aperture - Can accommodate screening of air cargo up to and including an item size of 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.
C	Large Aperture - Can accommodate screening of air cargo up to and including an item size of 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.

1. 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 his/her security program.
2. Due to Morpho Detection's business acquisition of General Electric Homeland Protection, either company data plate is acceptable as long as the Top Assembly Part Number matches the number listed in the Qualified section.
3. Regulated parties who operate the device outside of its designated Capacity rating should consult the vendor for information on additional performance capabilities or options to accommodate their unique operational requirements.

**Explosive Trace Detection (ETD)<sup>1</sup>  
(Qualified Section)**

Vendor	Device Model Number	Required Top Assembly Part Number	Date Qualified
Currently no systems in the ETD Qualified Technology section.			

1. Refer to Appendix A: TSA's Trace Consumables List (TCL) for the TSA Recommended Third-Party ETD Consumables List.

**NON-Sensitive Security Information (SSI)  
Version of the  
TSA Air Cargo Screening Technology List (ACSTL)**

**Explosive Detection Systems (EDS)  
(Qualified Section)**

Vendor	Device Model Number	Required Top Assembly Part Number	Date Qualified
L-3	eXaminer 6000	1000-11216-00 106106	10/23/2009
L-3	eXaminer 6600	1000-11216-00 106106	10/23/2009
L-3	eXaminer SX	10-64987-01	08/10/2012
L-3	eXaminer 3DX	106016 1000-11690-00	08/10/2012
L-3	eXaminer 3DX ES	1000-11700-00	08/10/2012
Morpho Detection <sup>1</sup>	CTX-2500	103100-1 Rev. AM	10/23/2009
Morpho Detection <sup>1</sup>	CTX-5500DS	103000-1	10/23/2009
Morpho Detection <sup>1</sup>	CTX-5800	500000-2	08/10/2012
Morpho Detection <sup>1</sup>	CTX-9000DSi	600600-1 Rev. CE	10/23/2009
Morpho Detection <sup>1</sup>	CTX-9400DSi	605200-1 Rev. B	10/23/2009
Morpho Detection <sup>1</sup>	CTX-9800DSi	605577-1	08/10/2012
Morpho Detection <sup>1</sup>	CTX-9800 SEIO	608551-1	11/20/2012
Reveal	CT-80	10360-1 Rev. D	10/23/2009
Reveal	CT-80DR	10360-1DR Rev. A	10/23/2009
Reveal	CT-80DR+	11729-1 Rev. A	08/10/2012

1. Due to Morpho Detection's business acquisition of General Electric Homeland Protection, either company data plate is acceptable as long as the Top Assembly Part Number matches the number listed in the Qualified section.

**Carbon Dioxide (CO<sub>2</sub>) Monitors  
(Qualified Section)**

Vendor	Device Model Number	Required Top Assembly Part Number	Date Qualified
Armstrong Monitoring	AMC-CD-2	AMC-CD-2	08/27/2010
InstroTek	Guard 1	1010000	08/27/2010

**NON-Sensitive Security Information (SSI)  
Version of the  
TSA Air Cargo Screening Technology List (ACSTL)**

**Electronic Metal Detection (EMD) Devices  
(Qualified Section)**

Vendor	Device Model Number	Required Top Assembly Part Number	Type	Capacity	Date Qualified
CEIA	EMIS 6047	EMIS6047 EMIS_6047_001	I	A	03/13/2013
CEIA	EMIS 8075	EMIS8075 EMIS_8075_001	I	B	03/13/2013
CEIA	EMIS 110160	EMIS_110160_001	I	B	03/13/2013
CEIA	EMIS 130160	EMIS_130160_001	I	C	03/13/2013
ERIEZ	EZ-Tec DSP	825495	I	A	03/13/2013
Mettler-Toledo Safeline	SL 2000 A	176Y7692	I	A	11/19/2015
Mettler-Toledo Safeline	SL 2000 B	176W7692	I	B	11/19/2015

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

Capacity Designations <sup>1</sup>	
ID	Description
<b>A</b>	Small Aperture - Can accommodate screening of air cargo up to and including an item size of 49cm (19.3in) wide by 38cm (15in) high by 91cm (35.8in) long and 50kg (110.2lbs) in weight.
<b>B</b>	Medium Aperture - Can accommodate screening of air cargo up to and including an item size of 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>C</b>	Large Aperture - Can accommodate screening of air cargo up to and including an item size of 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.

1. Regulated parties who operate the device outside of its designated Capacity rating should consult the vendor for information on additional performance capabilities or options to accommodate their unique operational requirements.

**NON-Sensitive Security Information (SSI)**  
**Version of the**  
**TSA Air Cargo Screening Technology List (ACSTL)**

**Approved Technology:** The following list of Non-Computed Tomography (Non-CT) Transmission X-ray Devices, Explosive Trace Detection (ETD) Devices, Explosive Detection Systems (EDS), Carbon Dioxide (CO<sub>2</sub>) Monitors, and Electronic Metal Detection (EMD) Devices specifies devices, by technology, which have been conditionally approved for screening operations and are currently undergoing or 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.

**Currently no systems in the Approved Technology section.**

**NON-Sensitive Security Information (SSI)  
Version of the  
TSA Air Cargo Screening Technology List (ACSTL)**

**Grandfathered Technology:** The following list of Non-Computed Tomography (Non-CT) Transmission X-ray Devices, Explosive Trace Detection (ETD) Devices, Explosive Detection Systems (EDS), Carbon Dioxide (CO<sub>2</sub>) Monitors, and Electronic Metal Detection (EMD) Devices 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 devices 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.

**Non-Computed Tomography (Non-CT) Transmission X-ray Devices  
(Grandfathered Section)**

Vendor	Device Model Number	Required Top Assembly Part Number	Material Discrimination	# of Views <sup>1</sup>	Capacity	Expiration Date
AS&E	Gemini 6040	299-0500	Y	Single View	A	12/31/2020
AS&E	Gemini 7555	288-0500	Y	Single View	A	12/31/2020
AS&E	Gemini 100100	302-0500	Y	Single View	B	12/31/2020
Astrophysics Inc.	6545VI	00-12-65VI-11	Y	Single View	A	12/31/2020
Astrophysics Inc.	XIS-100X	00-13-1XST-21	Y	Single View	B	12/31/2020
Astrophysics Inc.	XIS-100XD	00-13-1XDM-21	Y	Single View	B	12/31/2020
Astrophysics Inc.	XIS-1080	00-13-1080-21	Y	Single View	B	12/31/2020
Astrophysics Inc.	XIS-1080D	00-23-108D-21	Y	Single View	B	12/31/2020
Astrophysics Inc.	XIS-1517	00-13-1517-20	Y	Single View	C	12/31/2020
Astrophysics Inc.	XIS-1517 200kV	00-23-1517-20	Y	Single View	C	12/31/2020
Astrophysics Inc.	XIS-1818	00-13-1818-20	Y	Single View	C	12/31/2020
Astrophysics Inc.	XIS-1818 320kV	00-25-1818-20	Y	Single View	C	12/31/2020
Astrophysics Inc.	XIS-5878	00-13-5878-12	Y	Single View	A	12/31/2020
Astrophysics Inc.	XIS-6040	00-12-6040-21	Y	Single View	A	12/31/2020
Astrophysics Inc.	XIS-6545	00-13-6545-21	Y	Single View	A	12/31/2020
Astrophysics Inc.	XIS-7858	00-13-7858-21	Y	Single View	A	12/31/2020
AUTOCLEAR <sup>2</sup>	6040	6040M-AC2	Y	Single View	A	12/31/2020
AUTOCLEAR <sup>2</sup>	7555M	7555M-AC2	Y	Single View	A	12/31/2020
AUTOCLEAR <sup>2</sup>	100100T	100100T-AC2	Y	Single View	B	12/31/2020
L-3	ACX 6.4	1000-ACX64-00	Y	Single View	A	12/31/2020
L-3	PX 6.4	1000-1PX64-00	Y	Single View	A	12/31/2020
L-3	PX 107	1000-PX107-00	Y	Single View	B	12/31/2020
L-3	PX 160 P	0125-10431-00	N	Single View	C	12/31/2020
L-3	PX 208	1000-PX208-00	Y	Single View	B	12/31/2020
L-3	VDS 108	1000-10001-SF	Y	Single View	B	12/31/2020
L-3	VIS-HR	1000-10001-VH	Y	Single View	B	12/31/2020
Morpho Detection <sup>3</sup>	HRX 650	P0007033-003	Y	Single View	A	12/31/2020
Morpho Detection <sup>3</sup>	HRX 750	P0007033-004	Y	Single View	A	12/31/2020
Morpho Detection <sup>3</sup>	HRX 1000	P0007033-005	Y	Single View	B	12/31/2020
Morpho Detection <sup>3</sup>	HRX 1500	P0007033-012	Y	Single View	C	12/31/2020
Morpho Detection <sup>3</sup>	HRX 1800	P0007033-013	Y	Single View	C	12/31/2020
Nuctech	CX6040BI	CX6040BI	Y	Single View	A	12/31/2020
Nuctech	CX100100TI	CX100100TI	Y	Single View	B	12/31/2020



**NON-Sensitive Security Information (SSI)**  
**Version of the**  
**TSA Air Cargo Screening Technology List (ACSTL)**

Vendor	Device Model Number	Required Top Assembly Part Number	Material Discrimination	# of Views <sup>1</sup>	Capacity	Expiration Date
Rapiscan	620 DV	620DVRHS-AT 620DVLHS-AT 620DVRHS-STND 620DVLHS-STND	Y	Dual View	A	8/22/2016 <sup>4</sup>
Rapiscan	620 XR	620XRW-STND	Y	Single View	A	8/22/2016 <sup>4</sup> 12/31/2020
Rapiscan	622 XR	622XRW-STND	Y	Single View	A	8/22/2016 <sup>4</sup> 12/31/2020
Rapiscan	624 XR	624XRW-STND	Y	Single View	A	8/22/2016 <sup>4</sup> 12/31/2020
Rapiscan	627 DV	627DV-W115 627DV-STND	Y	Dual View	B	8/22/2016 <sup>4</sup>
Rapiscan	627 XR	627XRW-STND	Y	Single View	B	8/22/2016 <sup>4</sup> 12/31/2020
Rapiscan	628 DV	628DV115 628DV115-STND	N	Dual View	B	8/22/2016 <sup>4</sup>
Rapiscan	628 XR	628XRW-STND	Y	Single View	B	8/22/2016 <sup>4</sup> 12/31/2020
Rapiscan	632 DV	632DV200 632DV-STND	Y	Dual View	C	8/22/2016 <sup>4</sup>
Rapiscan	632 XR	632XRW-STND	Y	Single View	C	8/22/2016 <sup>4</sup> 12/31/2020
Rapiscan	638 DV	638DV200 638DV-STND	Y	Dual View	C	8/22/2016 <sup>4</sup>
Rapiscan	638 XR	638XRW-STND	Y	Single View	C	8/22/2016 <sup>4</sup> 12/31/2020
Rapiscan	Eagle A 1000	A10T480	N	Single View	C	12/31/2020
Smiths Detection	6040aTiX	HS 6040aTiX	Y	Dual View	A	10/03/2016 <sup>5</sup>
Smiths Detection	6040aX	HS 6040aX	Y	Dual View	A	10/03/2016 <sup>5</sup>
Smiths Detection	6040ds	HS 6040ds	Y	Single View	A	10/03/2016 <sup>5</sup> 12/31/2020
Smiths Detection	6040i	HS 6040i	Y	Single View	A	10/03/2016 <sup>5</sup> 12/31/2020
Smiths Detection	6046si	HS 6046si	Y	Single View	A	10/03/2016 <sup>5</sup> 12/31/2020
Smiths Detection	7555aTiX	HS 7555aTiX	Y	Dual View	A	10/03/2016 <sup>5</sup>
Smiths Detection	7555aX	HS 7555aX	Y	Dual View	A	10/03/2016 <sup>5</sup>
Smiths Detection	7555i	HS 7555i	Y	Single View	A	10/03/2016 <sup>5</sup> 12/31/2020
Smiths Detection	7555si	HS 7555si	Y	Single View	A	10/03/2016 <sup>5</sup> 12/31/2020
Smiths Detection	9075	HS 9075 <sup>6</sup>	Y	Single View	B	10/03/2016 <sup>5</sup> 12/31/2020
Smiths Detection	100100T	HS 100100T <sup>6</sup>	Y	Single View	B	10/03/2016 <sup>5</sup> 12/31/2020

**NON-Sensitive Security Information (SSI)**  
**Version of the**  
**TSA Air Cargo Screening Technology List (ACSTL)**

Vendor	Device Model Number	Required Top Assembly Part Number	Material Discrimination	# of Views <sup>1</sup>	Capacity	Expiration Date
Smiths Detection	100100T-2is	HS 100100T-2is	Y	Dual View	B	10/03/2016 <sup>5</sup>
Smiths Detection	100100V	HS 100100V	Y	Single View	B	10/03/2016 <sup>5</sup> 12/31/2020
Smiths Detection	100100V-2is	HS 100100V-2is	Y	Dual View	B	10/03/2016 <sup>5</sup>
Smiths Detection	130130T-2is	HS 130130T-2is	Y	Dual View	B	10/03/2016 <sup>5</sup>
Smiths Detection	145180	HS 145180 <sup>6</sup>	N	Single View	C	10/03/2016 <sup>5</sup> 12/31/2020
Smiths Detection	145180-2is	HS 145180-2is	Y	Dual View	C	10/03/2016 <sup>5</sup>
Smiths Detection	180180	HS 180180 300kV	N	Single View	C	10/03/2016 <sup>5</sup> 12/31/2020
Smiths Detection	180180-2is	HS 180180-300kV-2is	N	Dual View	C	10/03/2016 <sup>5</sup>

Capacity Designations <sup>7</sup>	
ID	Description
A	Small Aperture - Can accommodate screening of air cargo up to and including an item size of 49cm (19.3in) wide by 38cm (15in) high by 91cm (35.8in) long and 50kg (110.2lbs) in weight.
B	Medium Aperture - Can accommodate screening of air cargo up to and including an item size of 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.
C	Large Aperture - Can accommodate screening of air cargo up to and including an item size of 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.

- 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 his/her security program.
- Due to AUTOCLEAR's business acquisition of Control Screening, either company data plate is acceptable as long as the Top Assembly Part Number matches the number listed in the Grandfathered section.
- Due to Morpho Detection's business acquisition of General Electric Homeland Protection, either company data plate is acceptable as long as the Top Assembly Part Number matches the number listed in the Grandfathered section.
- As per Technical Bulletin 022, the following systems will have software that will be listed on the Grandfathered section of the ACSTL: 620DV, 620XR, 622XR, 624XR, 627DV, 627XR, 628DV, 628XR, 632DV, 632XR, 638DV, 638XR. Their expiration date is 8/22/16. This expiration date applies only to systems deployed internationally and this software is NOT permitted for screening air cargo from domestic locations. New software versions are available and appear in the qualified section of the ACSTL and all systems screening air cargo after 8/22/16, must have these new software versions installed.
- As per Technical Bulletin 021, the following systems will have software that will be listed on the Grandfathered section of the ACSTL: 6040aTiX, 6040aX, 6040ds, 6040i, 6046si, 7555aX, 7555i, 7555si, 7555aTiX, 9075, 100100T, 100100T-2is, 100100V, 100100V-2is, 130130T-2is, 145180, 145180-2iw, 180180, 180180-2is. Their expiration date is 10/3/16. A new software version is available and appears in the qualified section of the ACSTL and all systems screening air cargo after 10/3/16 must have this software version installed.
- The "TS" shown in the startup screen as part of the top assembly part number does not indicate a different hardware configuration.
- Regulated parties who operate the device outside of its designated Capacity rating should consult the vendor for information on additional performance capabilities or options to accommodate their unique operational requirement.

**NON-Sensitive Security Information (SSI)  
Version of the  
TSA Air Cargo Screening Technology List (ACSTL)**

**Explosive Trace Detection (ETD) <sup>1</sup>  
(Grandfathered Section)**

<b>Vendor</b>	<b>Device Model Number</b>	<b>Required Top Assembly Part Number</b>	<b>Configuration Tested <sup>2</sup></b>	<b>Expiration Date</b>
Implant Sciences Corporation	QS-B220	10011225 (Rev. E, F, G, H, J or K) QS-B220-001 (Rev. A, B, C, or D)	No Wand	02/12/2019
Morpho Detection <sup>3</sup>	Itemiser DX	P0007018-014-CAR Rev. 2	No Wand	02/12/2019
Smiths Detection	Ionscan 500DT	Ionscan 500DT	Wand/No Wand <sup>4</sup>	02/12/2019

1. Refer to Appendix A TSA's Trace Consumables List (TCL) for the TSA Recommended Third-Party ETD Consumables List.
2. 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. Due to Morpho Detection's business acquisition of General Electric Homeland Protection, either company data plate is acceptable as long as the Top Assembly Part Number matches the number listed in the qualified section.
4. This device can be used with or without a wand.

**NON-Sensitive Security Information (SSI)**  
**Version of the**  
**TSA Air Cargo Screening Technology List (ACSTL)**

**Appendix A**

**TSA Trace Consumable List (TCL)**

**Document Purpose:** The purpose of the Trace Consumables List (TCL) is to identify, for the regulated parties who use Explosive Trace Detection (ETD) devices that detect explosives those requirements for third party ETD consumable items tested by TSA and indicated 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. TSA expresses no preference for security system manufacturer supplied consumables or for third party supplied consumables. However, to ensure 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 this TCL or be supplied by the security system manufacturer of the ETD device. This publication of the TCL replaces version 1.3.

**Notes:** TCL vendor contact information is listed below by alphabetical order.

<u>Company</u>	<u>Address</u>	<u>Phone</u>	<u>Website</u>
DSA Detection	120 Water Street, Suite 211, North Andover, MA 01845	(978) 975-3200	<a href="http://www.dsadetection.com">www.dsadetection.com</a>
ETD Direct LLC	1121 Route 34 Suite N-404, Aberdeen, NJ 07747	(908) 614-7835	<a href="http://www.etddirect.com">www.etddirect.com</a>
Microsilver Wear, Inc.	821 Courtyard Drive, Hillsborough, NJ 08844	(908) 698-4421	<a href="http://www.microsilverinc.com">www.microsilverinc.com</a>
Princeton Security Technologies	2925 State Road, Croydon, PA 19021-6960	(609) 915-9700 (215) 458-4181	<a href="http://www.princetonsecuritytechnologies.com">www.princetonsecuritytechnologies.com</a>
US Testing Equipment, LTD	7201 NE 18 <sup>th</sup> St., Suite A, Vancouver, WA 98661	(888) 687-8378	<a href="http://www.ustesting.com">www.ustesting.com</a>

<b>Model</b>	<b>Manufacturer</b>	<b>Item Description</b>	<b>Part Number</b>	<b>Supplier</b>
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

**NON-Sensitive Security Information (SSI)**  
**Version of the**  
**TSA Air Cargo Screening Technology List (ACSTL)**

<b>Model</b>	<b>Manufacturer</b>	<b>Item Description</b>	<b>Part Number</b>	<b>Supplier</b>
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 DX	Morpho Detection	5 Micron Filter	MP003244	US Testing Equipment, LTD
Itemiser DX	Morpho Detection	50ct Individually Wrapped Isopropyl Wipes	MP075037	US Testing Equipment, LTD
Itemiser DX	Morpho Detection	Bumper Feet	MP017022	US Testing Equipment, LTD
Itemiser DX	Morpho Detection	Calibration Traps (100ct), Multi-purpose	CT1319P	DSA Detection
Itemiser DX	Morpho Detection	Calibration Traps (25ct), Multi-purpose	CT1317P	DSA Detection
Itemiser DX	Morpho Detection	Calibration Traps (Teflon) 100ct	M0001964-100	US Testing Equipment, LTD
Itemiser DX	Morpho Detection	Calibration Traps (Teflon) 25ct	M0001964-25	US Testing Equipment, LTD
Itemiser DX	Morpho Detection	Canned Air	MP075003	US Testing Equipment, LTD
Itemiser DX	Morpho Detection	Chemical, Positive Dopant, Ammonia, Crystal, 5-Mo Life	MP035087	US Testing Equipment, LTD
Itemiser DX	Morpho Detection	Clearing Spray	M0001831	US Testing Equipment, LTD
Itemiser DX	Morpho Detection	Clearing Spray	MD1831	ETD Direct
Itemiser DX	Morpho Detection	Cotton gloves (12/pack)	MP075000	US Testing Equipment, LTD
Itemiser DX	Morpho Detection	Dopant, Explosives (1/Instrument)	MP005810	US Testing Equipment, LTD
Itemiser DX	Morpho Detection	E-Mode Dopant (Permeation Device)	D5810	DSA Detection
Itemiser DX	Morpho Detection	Fan Filter Guard	MP007125	US Testing Equipment, LTD

**NON-Sensitive Security Information (SSI)  
Version of the  
TSA Air Cargo Screening Technology List (ACSTL)**

<b>Model</b>	<b>Manufacturer</b>	<b>Item Description</b>	<b>Part Number</b>	<b>Supplier</b>
Itemiser DX	Morpho Detection	Filter, Sintered 316 SS (with FW9556)	MP003223	US Testing Equipment, LTD
Itemiser DX	Morpho Detection	Foam Filter	MP003222	US Testing Equipment, LTD
Itemiser DX	Morpho Detection	Fuse, 3.15V, Type T	EP002500	US Testing Equipment, LTD
Itemiser DX	Morpho Detection	Fuse 15A, 32V, 3AG for DC input	EP002525	US Testing Equipment, LTD
Itemiser DX	Morpho Detection	Maintenance Kit	PA005286	US Testing Equipment, LTD
Itemiser DX	Morpho Detection	Membrane Tool Probe Stick	MP055226	US Testing Equipment, LTD
Itemiser DX	Morpho Detection	Narcotics, long life dopant	D5087	DSA Detection
Itemiser DX	Morpho Detection	Nozzle Screen Kit, Itemiser DX	PA005282	US Testing Equipment, LTD
Itemiser DX	Morpho Detection	O-Ring, Size 11, KALREZ Compound 4079, Duro	MP011191	US Testing Equipment, LTD
Itemiser DX	Morpho Detection	O-Ring .176 ID	MP011008	US Testing Equipment, LTD
Itemiser DX	Morpho Detection	PTFE Tubing	MP008043	US Testing Equipment, LTD
Itemiser DX	Morpho Detection	Sample Swabs (100ct)	Multi/DX	Microsilver
Itemiser DX	Morpho Detection	Sample Swabs (100ct)	TrapDX	Microsilver
Itemiser DX	Morpho Detection	Sample Swabs (100ct)	DX-Swab or MD1964	ETD Direct
Itemiser DX	Morpho Detection	Sample Traps (100ct), Multi-purpose	ST1318P	DSA Detection
Itemiser DX	Morpho Detection	Sample Traps (25ct), Multi-purpose	ST1316P	DSA Detection
Itemiser DX	Morpho Detection	Sample Traps (Teflon) 100ct	M0001965-100	US Testing Equipment, LTD
Itemiser DX	Morpho Detection	Sample Traps (Teflon) 25ct	M0001965-25	US Testing Equipment, LTD
Itemiser DX	Morpho Detection	Saturated Swabs	MP075002	US Testing Equipment, LTD
Itemiser DX	Morpho Detection	Saturated Wipes	MP075001	US Testing Equipment, LTD
Itemiser DX	Morpho Detection	Silastic Tubing	MP008047	US Testing Equipment, LTD

**NON-Sensitive Security Information (SSI)**  
**Version of the**  
**TSA Air Cargo Screening Technology List (ACSTL)**

<b>Model</b>	<b>Manufacturer</b>	<b>Item Description</b>	<b>Part Number</b>	<b>Supplier</b>
Itemiser DX	Morpho Detection	Spare Kit	PA005254	US Testing Equipment, LTD
Itemiser DX	Morpho Detection	Thermal Printer Paper Roll	PA005060	US Testing Equipment, LTD
Itemiser DX	Morpho Detection	Verification Traps (100ct)	VT1336P	DSA Detection
Itemiser DX	Morpho Detection	Verification Traps (25ct)	VT1337P	DSA Detection
Itemiser DX	Morpho Detection	Verification Traps (Teflon) 100ct	M0001966-100	US Testing Equipment, LTD
Itemiser DX	Morpho Detection	Verification Traps (Teflon) 25ct	M0001966-25	US Testing Equipment, LTD
QS B220	Implant Sciences	Sample Swabs (100ct)	ST1269P	DSA Detection