

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

**Version 10.6**

**Release Date: June 13, 2018**

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## Table of Contents

1	Introduction .....	3
1.1	Document Purpose.....	3
1.2	Document Format.....	3
1.3	Disclaimer .....	3
1.4	Device Configuration.....	4
1.5	Operating Environment.....	4
1.6	Manufacturer Contact Information.....	4
1.7	Updates in This Version.....	6
2	Non-Computed Tomography (Non-CT) Transmission X-Ray Devices .....	7
2.1	Qualified Non-CT X-ray Technology.....	8
2.2	Approved Non-CT X-ray Technology.....	11
2.3	Grandfathered Non-CT X-ray Technology.....	12
3	Explosive Trace Detection (ETD) Devices.....	15
3.1	Qualified ETD Technology.....	15
3.2	Approved ETD Technology.....	16
3.3	Grandfathered ETD Technology .....	17
4	Electronic Metal Detection (EMD) Devices .....	18
4.1	Qualified EMD Technology.....	20
4.2	Approved EMD Technology .....	21
4.3	Grandfathered EMD Technology.....	22
5	Explosive Detection Systems (EDS).....	23
5.1	Qualified EDS Technology.....	23
5.2	Approved EDS Technology.....	24

**NON-SENSITIVE SECURITY INFORMATION**

---

5.3 Grandfathered EDS Technology ..... 25

6 Carbon Dioxide (CO2) Monitors ..... 26

6.1 Qualified CO2 Monitor Technology ..... 26

6.2 Approved CO2 Monitor Technology ..... 27

6.3 Grandfathered CO2 Monitor Technology ..... 28

Appendix A: Trace Consumables ..... 29

    Third-Party Consumables Vendors ..... 29

    Trace Consumables List ..... 30

## **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.

### **1.2 Document Format**

The document is arranged by Technology Qualification Group as follows: (1) Non-Computed Tomography (Non-CT) Transmission X-ray Devices, (2) Explosive Trace Detection (ETD) Devices, (3) Electronic Metal Detection (EMD) Devices, (4) Explosive Detection Systems (EDS), and (5) Carbon Dioxide (CO<sub>2</sub>) 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.

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## NON-SENSITIVE SECURITY INFORMATION

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### 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.

### 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
American Sciences and Engineering, Inc. (AS&E)	829 Middlesex Turnpike Billerica, MA 01821	Dave Montion	978-262-8638	<a href="mailto:DMontion@as-e.com">DMontion@as-e.com</a>
Armstrong Monitoring	215 Colonnade Road South Ottawa, ON K2E 7K3 Canada	Scott Bissett	800-465-5777	<a href="mailto:SBissett@armstrongmonitoring.com">SBissett@armstrongmonitoring.com</a>
Astrophysics, Inc.	21481 Ferrero Parkway City of Industry, CA 91789	Simon Bedford	858-774-8432	<a href="mailto:SBedford@astrophysicsinc.com">SBedford@astrophysicsinc.com</a>
Autoclear	2 Gardner Road Fairfield, NJ 07004-2206	Jack Fenwick	973-276-6000 Ext. 243	<a href="mailto:JackFenwick@autoclear.com">JackFenwick@autoclear.com</a>
CEIA USA	9155 Dutton Drive Twinsburg Ohio 44087	Luca Cacioli	330-217-7995	<a href="mailto:LCacioli@ceia-usa.com">LCacioli@ceia-usa.com</a>
Gilardoni S.p.A.	Via Arturo Gilardoni 1 Mandello del Lario 23826 (LC), Italy	Luca Ghislanzoni	0039-0341-705218	<a href="mailto:lg@gilardoni.it">lg@gilardoni.it</a>
InstroTek, Inc.	1 Triangle Drive, PO 13944 Research Triangle Park, NC 27709	Ali Regimand	919-875-8371	<a href="mailto:AREgimand@instrotek.com">AREgimand@instrotek.com</a>
L3 Security & Detection Systems	10 Commerce Way Woburn, MA 01801	Ronald Allman (ETD only)	781-970-1624	<a href="mailto:Ronald.Allman@L3T.com">Ronald.Allman@L3T.com</a>
L3 Security & Detection Systems	10 Commerce Way Woburn, MA 01801	Michael Gildea (all product lines except ETD)	781-939-3890	<a href="mailto:Michael.Gildea@L3T.com">Michael.Gildea@L3T.com</a>
Mettler-Toledo Safeline	6005 Benjamin Road Tampa, FL 33634	Chris Acierno	813-889-9500	<a href="mailto:Chris.Acierno@mt.com">Chris.Acierno@mt.com</a>

**NON-SENSITIVE SECURITY INFORMATION**

<b>Company</b>	<b>Address</b>	<b>Point of Contact</b>	<b>Phone Number</b>	<b>E-mail</b>
Nuctech Company, Ltd.	2F/A Tong Fang Bldg. Shuang Qing Road Hai Dian District Beijing, P.R. China	Tao Yin Renran Xu	+86-139-1129-0208 +86-185-1128-9452	<a href="mailto:YinTao@nuctech.com">YinTao@nuctech.com</a> <a href="mailto:XuRenran@nuctech.com">XuRenran@nuctech.com</a>
Rapiscan Systems	23 Frontage Road Andover, MA 01810	Samantha Ollerton (ETD/Trace only)	603-289-1304	<a href="mailto:Sollerton@rapiscansystems.com">Sollerton@rapiscansystems.com</a>
Rapiscan Systems	2805 Columbia Street Torrance, CA 905503	Lorie Halitzka (All product lines except ETD/Trace devices)	310-349-2637	<a href="mailto:LHalitzka@rapiscansystems.com">LHalitzka@rapiscansystems.com</a>
Reveal Imaging Technologies, Inc.	10260 Campus Point Drive, MS V2-F San Diego, CA 20190	Stan DeFilippis	202-361-3338	<a href="mailto:Stan.DeFilippis@leidos.com">Stan.DeFilippis@leidos.com</a>
Smiths Detection, Inc.	2202 Lakeside Blvd Edgewood, MD 21040	Jennifer Banks Herrmann	410-474-0238	<a href="mailto:Jennifer.banks.herrmann@smiths-detection.com">Jennifer.banks.herrmann@smiths-detection.com</a>
VOTI Detection, Inc.	102-1840 Trans-Canada Highway Dorval, Quebec, Canada H9P1H7	Richard Shatilla	514-782-1566	<a href="mailto:richard.shatilla@votidetection.com">richard.shatilla@votidetection.com</a>
X-ray Center (XRC)	Nuripasa Mah. 15 SK. No. 29/A Zeytinburnu, Istanbul Turkey	Kami Havluciyani	+90-212-665-1328	<a href="mailto:kami@x-raycenter.com">kami@x-raycenter.com</a>

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**NON-SENSITIVE SECURITY INFORMATION**

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**1.7 Updates in This Version**

<b>Page</b>	<b>Section</b>	<b>Change</b>
5	1.5 Manufacturer Contract Information	Revised Rapiscan Systems contact information.
5	1.5 Manufacturer Contract Information	Added Mettler-Toledo Safeline and contact information.
6	1.5 Manufacturer Contract Information	Revised InstroTek, Inc. contact information.
26	4.3 EMD Devices, Grandfathered	Added Mettler-Toledo Safeline into EMD Grandfathered.

## 2 Non-Computed Tomography (Non-CT) Transmission X-Ray Devices

**Technology Description:** Fixed projection X-ray 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.

**Non-CT Capacity Designations**

ID	Description
A	<b>Small Aperture</b> – 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	<b>Medium Aperture</b> – 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	<b>Large Aperture</b> – 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.



**NON-SENSITIVE SECURITY INFORMATION**

**2.1 Qualified Non-CT X-ray 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.**

Qualified Non-CT X-ray Technology						
Vendor	Device Model Number	Required Top Assembly Part Number	Material Discrimination	# of Views	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
Astrophysics, Inc.	XIS-6545DVS	00-30-6DVS-10	Y	Dual View	A	11/21/2016
Astrophysics, Inc.	XIS-7858DVS	00-30-7DVS-10	Y	Dual View	A	11/21/2016
Gilardoni, S.p.A.	FEP ME 755 AMX	05141096	Y	Dual View	A	10/23/2014
L3 Security & Detection Systems	ACX 6.4 MV	1000-MV3AC-00	Y	Multi View	A	10/23/2009
L3 Security & Detection Systems	CX 6000 P DV	002	N	Dual View	C	05/14/2010
L3 Security & Detection Systems	MVT-HR	1000-10001-HR 1000-10002-HR	Y	Multi View	B	02/03/2010

**NON-SENSITIVE SECURITY INFORMATION**

Qualified Non-CT X-ray Technology						
Vendor	Device Model Number	Required Top Assembly Part Number	Material Discrimination	# of Views	Capacity	Date Qualified
L3 Security & Detection Systems	PX 10.10 MV	1000-P1010-2V	Y	Dual View	B	08/09/2012
		1000-P1010-AC				
L3 Security & Detection Systems	PX 15.17 MV 200kV	0125-10732-00	Y	Dual View	C	08/09/2012
L3 Security & Detection Systems	PX 18.18 MV 200kV	0125-10734-00	Y	Dual View	C	08/09/2012
L3 Security & Detection Systems	PX 18.18 MV 320kV	0125-10735-00	Y	Dual View	C	12/12/2012
Rapiscan Systems	620 DV	620DVRHS-AT 620DVLHS-AT 620DVRHS-STND 620DVLHS-STND	Y	Dual View	A	10/23/2009
Rapiscan Systems	627 DV	627DV-W115 627DV-STND 627DVE	Y	Dual View	B	10/23/2009
Rapiscan Systems	628 DV	628DV115 628DV-STND	Y	Dual View	B	05/14/2010
Rapiscan Systems	632 DV	632DV200 632DV-STND 632DVE	Y	Dual View	C	10/23/2009
Rapiscan Systems	638 DV	638DV200 638DV-STND	Y	Dual View	C	10/23/2009
Rapiscan Systems	638 DV300	638DV300	Y	Dual View	C	06/23/2016
Rapiscan Systems	MVXR 5000	2010659-6	Y	Multi View	B	02/03/2010
Smiths Detection, Inc.	6040-2is	HS 6040-2is	Y	Dual View	A	08/27/2015
Smiths Detection, Inc.	6040aTiX	HS 6040aTiX	Y	Dual View	A	10/23/2009

**NON-SENSITIVE SECURITY INFORMATION**

Qualified Non-CT X-ray Technology						
Vendor	Device Model Number	Required Top Assembly Part Number	Material Discrimination	# of Views	Capacity	Date Qualified
Smiths Detection, Inc.	6040aX	HS 6040aX	Y	Dual View	A	08/09/2012
Smiths Detection, Inc.	7555aTiX	HS 7555aTiX	Y	Dual View	A	05/14/2010
Smiths Detection, Inc.	7555aX	HS 7555aX	Y	Dual View	A	08/09/2012
Smiths Detection, Inc.	10080 EdtS	HS 10080 EdtS	Y	Multi View	B	10/23/2009
Smiths Detection, Inc.	10080 EDX-2is	HS 10080 EDX-2is	Y	Dual View	B	10/23/2009
Smiths Detection, Inc.	100100T-2is	HS 100100T-2is	Y	Dual View	B	10/23/2009
Smiths Detection, Inc.	100100V-2is	HS 100100V-2is	Y	Dual View	B	08/09/2012
Smiths Detection, Inc.	130130T-2is	HS 130130T-2is	Y	Dual View	B	10/23/2009
Smiths Detection, Inc.	145180-2is	HS 145180-2is	Y	Dual View	C	4/25/2013
Smiths Detection, Inc.	180180-2is	HS 180180-300kV-2is	N	Dual View	C	10/23/2009
Smiths Detection, Inc.	180180-2is Pro	HS 180180-2is Pro	Y	Dual View	C	10/18/2016
Smiths Detection, Inc. (1)	HRX 1000 DV	P0007033-011	Y	Dual View	B	05/14/2010
X-ray Center (XRC)	XRC 60-40DV	XRC 60-40DV	Y	Dual View	A	04/11/2018
X-ray Center (XRC)	XRC 100-100DV	XRC 100-100DV	Y	Dual View	B	05/23/2018

**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.

**2.2 Approved Non-CT X-ray 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.**

<b>Approved Non-CT X-ray Technology</b>						
<b>Vendor</b>	<b>Device Model Number</b>	<b>Required Top Assembly Part Number</b>	<b>Material Discrimination</b>	<b># of Views</b>	<b>Capacity</b>	<b>Date Approved</b>
VOTI Detection Inc.	VOTI XR3D-6D	5000002-001	Y	Dual View	A	5/08/2018

**NON-SENSITIVE SECURITY INFORMATION**

**2.3 Grandfathered Non-CT X-ray 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.**

<b>Grandfathered Non-CT X-ray Technology</b>						
<b>Vendor</b>	<b>Device Model Number</b>	<b>Required Top Assembly Part Number</b>	<b>Material Discrimination</b>	<b># of Views</b>	<b>Capacity</b>	<b>Expiration Date</b>
American Sciences and Engineering, Inc. (AS&E)	Gemini 6040	299-0500	Y	Single View	A	12/31/2020
American Sciences and Engineering, Inc. (AS&E)	Gemini 7555	288-0500	Y	Single View	A	12/31/2020
American Sciences and Engineering, Inc. (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 200kV	00-23-1818-20	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 (1)	6040	6040M-AC2	Y	Single View	A	12/31/2020

**NON-SENSITIVE SECURITY INFORMATION**

Grandfathered Non-CT X-ray Technology						
Vendor	Device Model Number	Required Top Assembly Part Number	Material Discrimination	# of Views	Capacity	Expiration Date
Autoclear (1)	7555M	7555M-AC2	Y	Single View	A	12/31/2020
Autoclear (1)	100100T	100100T-AC2	Y	Single View	B	12/31/2020
L3 Security & Detection Systems	ACX 6.4	1000-ACX64-00	Y	Single View	A	12/31/2020
L3 Security & Detection Systems	PX 6.4	1000-1PX64-00	Y	Single View	A	12/31/2020
L3 Security & Detection Systems	PX 107	1000-PX107-00	Y	Single View	B	12/31/2020
L3 Security & Detection Systems	PX 160 P	0125-10431-00	N	Single View	C	12/31/2020
L3 Security & Detection Systems	PX 208	1000-PX208-00	Y	Single View	B	12/31/2020
L3 Security & Detection Systems	VDS 108	1000-10001-SF	Y	Single View	B	12/31/2020
L3 Security & Detection Systems	VIS-HR	1000-10001-VH	Y	Single View	B	12/31/2020
Nuctech Company	CX6040BI	CX6040BI	Y	Single View	A	12/31/2020
Nuctech Company	CX100100TI	CX100100TI	Y	Single View	B	12/31/2020
Rapiscan Systems	620 XR	620XRW-STND	Y	Single View	A	12/31/2020
Rapiscan Systems	622 XR	622XRW-STND	Y	Single View	A	12/31/2020
Rapiscan Systems	624 XR	624XRW-STND	Y	Single View	A	12/31/2020
Rapiscan Systems	627 XR	627XRW-STND	Y	Single View	B	12/31/2020
Rapiscan Systems	628 XR	628XRW-STND	Y	Single View	B	12/31/2020
Rapiscan Systems	632 XR	632XRW-STND	Y	Single View	C	12/31/2020
Rapiscan Systems	638 XR	638XRW-STND	Y	Single View	C	12/31/2020
Rapiscan Systems	Eagle A 1000	A10T480	N	Single View	C	12/31/2020
Smiths Detection, Inc.	6040ds	HS 6040ds	Y	Single View	A	12/31/2020
Smiths Detection, Inc.	6040i	HS 6040i	Y	Single View	A	12/31/2020
Smiths Detection, Inc.	6046si	HS 6046si	Y	Single View	A	12/31/2020
Smiths Detection, Inc.	7555i	HS 7555i	Y	Single View	A	12/31/2020
Smiths Detection, Inc.	7555si	HS 7555si	Y	Single View	A	12/31/2020
Smiths Detection, Inc.	9075	HS 9075 (4)	Y	Single View	B	12/31/2020

**NON-SENSITIVE SECURITY INFORMATION**

<b>Grandfathered Non-CT X-ray Technology</b>						
<b>Vendor</b>	<b>Device Model Number</b>	<b>Required Top Assembly Part Number</b>	<b>Material Discrimination</b>	<b># of Views</b>	<b>Capacity</b>	<b>Expiration Date</b>
Smiths Detection, Inc.	100100T	HS 100100T (4)	Y	Single View	B	12/31/2020
Smiths Detection, Inc.	100100V	HS 100100V	Y	Single View	B	12/31/2020
Smiths Detection, Inc.	145180	HS 145180 (3)	N	Single View	C	12/31/2020
Smiths Detection, Inc.	180180	HS 180180 300kV	N	Single View	C	12/31/2020
Smiths Detection, Inc. (2)	HRX 650	P0007033-003	Y	Single View	A	12/31/2020
Smiths Detection, Inc. (2)	HRX 750	P0007033-004	Y	Single View	A	12/31/2020
Smiths Detection, Inc. (2)	HRX 1000	P0007033-005	Y	Single View	B	12/31/2020
Smiths Detection, Inc. (2)	HRX 1500	P0007033-012	Y	Single View	C	12/31/2020
Smiths Detection, Inc. (2)	HRX 1800	P0007033-013	Y	Single View	C	12/31/2020
X-ray Center (XRC)	XRC 6040	XRC 60-40	Y	Single View	A	12/31/2020

**Notes:**

- (1) Control Screening was acquired by Autoclear. Either company's data plate is acceptable as long as the Top Assembly Part Number matches the number listed in the Grandfathered section.
- (2) 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 Grandfathered section.
- (3) The "TS" shown in the startup screen as part of the top assembly part number does not indicate a different hardware configuration.
- (4) Smiths Detection, Inc. model 145180 manufactured in June 2007 or earlier, the operating voltage may be 140kV instead of 160kV.

### **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-recommended 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.*

Qualified ETD Technology					
Vendor	Device Model Number	Required Top Assembly Part Number	Required Software Version	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.**

Approved ETD Technology				
Vendor	Device Model Number	Required Top Assembly Part Number	Configuration Tested (2)	Date Approved
Smiths Detection, Inc. (1)	IONSCAN 600	4824000E-301-2	No Wand	11/01/2017

**Notes:**

- (1) This model has a non-radioactive source thus annual radiation testing is not required.
- (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.

**NON-SENSITIVE SECURITY INFORMATION**

**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.**

<b>Grandfathered ETD Technology</b>				
<b>Vendor</b>	<b>Device Model Number</b>	<b>Required Top Assembly Part Number</b>	<b>Configuration Tested (1)</b>	<b>Expiration Date</b>
L3 Security & Detection Systems (2) (3)	QS-B220	10011225 Rev. E, F, G, H, J, K, L or M QS-B220-001 Rev. A, B, C, <del>D</del> , or E	No Wand	02/12/2021
Rapiscan Systems (4)	Itemiser DX	P0007018-014-CAR Rev. 2 P0007018-014-CAR-R	No Wand	02/12/2021
Smiths Detection, Inc.	lonscan 500DT	lonscan 500DT	Wand/No Wand (5)	02/12/2021

**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. 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.

## 4 Electronic Metal Detection (EMD) 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 EMD, 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.

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**NON-SENSITIVE SECURITY INFORMATION**

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<b>Capacity Designations (1)</b>	
<b>ID</b>	<b>Description</b>
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.

**NON-SENSITIVE SECURITY INFORMATION**

**4.1 Qualified EMD 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.**

Qualified EMD Technology					
Vendor	Device Model Number	Required Top Assembly Part Number	Type	Capacity	Date Qualified
CEIA USA (2)	EMIS 6047	EMIS6047 EMIS_6047_001	I	A	03/13/2013
CEIA USA (2)	EMIS 8075	EMIS8075 EMIS_8075_001	I	B	03/13/2013
CEIA USA (2)	EMIS 110160	EMIS_110160_001	I	B	03/13/2013
CEIA USA (2)	EMIS 130160	EMIS_130160_001	I	C	03/13/2013
CEIA USA (2)	EMIS 130200	EMIS_130200_002	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 EMD 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 EMD Technology section.*

Approved EMD Technology					
Vendor	Device Model Number	Required Top Assembly Part Number	Type	Capacity	Date Approved

Notes:

**4.3 Grandfathered EMD 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.**

<b>Grandfathered EMD Technology</b>						
<b>Vendor</b>	<b>Device Model Number</b>	<b>Required Top Assembly Part Number</b>	<b>Type</b>	<b>Capacity</b>	<b>Expiration Date</b>	
Mettler-Toledo Safeline	SL 2000 A	176Y7692	I	A	06/13/2025	
Mettler-Toledo Safeline	SL 2000 B	176W7692	I	B	06/13/2025	

**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.

## 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.*

Qualified EDS Technology			
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.

*There are currently no systems in the Approved EDS Technology section.*

Approved EDS Technology			
Vendor	Device Model Number	Required Top Assembly Part Number	Date Approved

Notes:

**NON-SENSITIVE SECURITY INFORMATION**

**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.**

<b>Grandfathered EDS Technology</b>			
<b>Vendor</b>	<b>Device Model Number</b>	<b>Required Top Assembly Part Number</b>	<b>Expiration Date</b>
L3 Security & Detection Systems	eXaminer 6000	1000-11216-00 106106	12/31/2022
L3 Security & Detection Systems	eXaminer 6600	1000-11216-00 106106	12/31/2022
L3 Security & Detection Systems (1)	eXaminer 3DX	1000-11690-00 106016	12/31/2022
L3 Security & Detection Systems (1)	eXaminer 3DX ES	1000-11700-00	12/31/2022
Smiths Detection, Inc. (2)	CTX-2500	103100-1 Rev. AM	12/31/2022
Smiths Detection, Inc. (2)	CTX-5500DS	103000-1	12/31/2022
Smiths Detection, Inc. (2)	CTX-5800	500000-2	12/31/2022
Smiths Detection, Inc. (2)	CTX-9000Dsi	600600-1 Rev. CE	12/31/2022
Smiths Detection, Inc. (2)	CTX-9400Dsi	605200-1 Rev. B	12/31/2022
Smiths Detection, Inc. (2)	CTX-9800Dsi	605577-1	12/31/2022
Smiths Detection, Inc. (2)	CTX-9800 SEIO	608551-1	12/31/2022
Reveal Imaging Technologies, Inc.	CT-80	10360-1 Rev. D	12/31/2022
Reveal Imaging Technologies, Inc.	CT-80DR	10360-1DR Rev. A	12/31/2022
Reveal Imaging Technologies, Inc. (1)	CT-80DR+	11729-1 Rev. A	12/31/2022

**Notes:**

- (1) These devices are certified to TSA detection standard 7.2 but not qualified.
- (2) Morpho Detection, Inc. was acquired by Smiths Detection. Either company's data plate is acceptable as long as the Top Assembly Part Number matches the number listed in the Grandfathered section.

## 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.**

Qualified CO <sup>2</sup> Monitor Technology			
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

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.*

Approved CO <sup>2</sup> Monitor Technology			
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.

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

Grandfathered CO <sup>2</sup> Monitor Technology			
Vendor	Device Model Number	Required Top Assembly Part Number	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.

This publication of the TCL replaces version 1.3.

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.

<b>Company</b>	<b>Address</b>	<b>Phone</b>	<b>Website</b>
DSA Detection	120 Water St., Suite 211	(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>

**NON-SENSITIVE SECURITY INFORMATION**

**Trace Consumables List**

<b>Model</b>	<b>Manufacturer</b>	<b>Item Description</b>	<b>Part Number</b>	<b>Supplier</b>
lonscan 500DT	Smiths Detection	Condenser Tube Kit with Gaskets	DCK7658	DSA Detection
lonscan 500DT	Smiths Detection	Condenser Tube	DCT6686	DSA Detection
lonscan 500DT	Smiths Detection	Hand Sw ab (200ct)	DSW1210P	DSA Detection
lonscan 500DT	Smiths Detection	Hand Sw ab (200ct)	500DT – Manual or SD1201	ETD Direct
lonscan 500DT	Smiths Detection	Hand Sw ab (200ct)	Manual/DT	Microsilver
lonscan 500DT	Smiths Detection	Printer Paper	DPP8047	DSA Detection
lonscan 500DT	Smiths Detection	Printer Ribbon	DPR4728	DSA Detection
lonscan 500DT	Smiths Detection	Sample Sw ab 500DT (200ct)	Sw ab/DT	Microsilver
lonscan 500DT	Smiths Detection	Sample Sw ab (200ct)	TDT000500DT	US Testing Equipment, LTD
lonscan 500DT	Smiths Detection	Sample Sw ab, Nomex	PST-N101	Princeton Security Technologies
lonscan 500DT	Smiths Detection	Sample Sw ab, 500DT (200ct)	DSW8055P	DSA Detection
lonscan 500DT	Smiths Detection	Verification Pen, 500DT	DVP1883	DSA Detection
lonscan 500DT	Smiths Detection	Verification Pen	DTV-Pen or SD3203	ETD Direct
lonscan 500DT	Smiths Detection	Veri-Tek Pen	PST VT-101	Princeton Security Technologies
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	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	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	M0001831	US Testing Equipment, LTD

**NON-SENSITIVE SECURITY INFORMATION**

<b>Model</b>	<b>Manufacturer</b>	<b>Item Description</b>	<b>Part Number</b>	<b>Supplier</b>
Itemiser DX	Rapiscan Systems	Clearing Spray	MD1831	ETD Direct
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	MP007125	US Testing Equipment, LTD
Itemiser DX	Rapiscan Systems	Filter, Sintered 316 SS (w ith FW9556)	MP003223	US Testing Equipment, LTD
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 15A, 32V, 3AG for DC input	EP002525	US Testing Equipment, LTD
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	Narcotics, Long Life Dopant	D5087	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 .176 ID	MP011008	US Testing Equipment, LTD
Itemiser DX	Rapiscan Systems	PTFE Tubing	MP008043	US Testing Equipment, LTD
Itemiser DX	Rapiscan Systems	Sample Sw abs (100ct)	Multi/DX	Microsilver
Itemiser DX	Rapiscan Systems	Sample Sw abs (100ct)	TRAPDX	Microsilver
Itemiser DX	Rapiscan Systems	Sample Sw abs (100ct)	DX-Sw ab or MD1964	ETD Direct
Itemiser DX	Rapiscan Systems	Sample Traps (100ct), Multi-purpose	ST1318P	DSA Detection
Itemiser DX	Rapiscan Systems	Sample Traps (25ct), Multi-purpose	ST1316P	DSA Detection
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 Sw abs	MP075002	US Testing Equipment, LTD
Itemiser DX	Rapiscan Systems	Saturated Wipes	MP075001	US Testing Equipment, LTD
Itemiser DX	Rapiscan Systems	Silastic Tubing	MP008047	US Testing Equipment, LTD
Itemiser DX	Rapiscan Systems	Spare Kit	PA005254	US Testing Equipment, LTD



**NON-SENSITIVE SECURITY INFORMATION**

<b>Model</b>	<b>Manufacturer</b>	<b>Item Description</b>	<b>Part Number</b>	<b>Supplier</b>
Itemiser DX	Rapiscan Systems	Thermal Printer Paper Roll	PA005060	US Testing Equipment, LTD
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	L3 Security & Detection Systems	Sample Swabs (100ct)	ST1269P	DSA Detection
QS B220	L3 Security & Detection Systems	Positive Verification Tin	SVP2603	DSA Detection
QS B220	L3 Security & Detection Systems	Calibration Trap	CT1272	DSA Detection
QS B220	L3 Security & Detection Systems	Molecular Sieve Canister	BSC1310	DSA Detection
QS B220	L3 Security & Detection Systems	Calibration Trap	IS1272-25	ETD Direct
QS B220	L3 Security & Detection Systems	Sample Trap	ST1269	DSA Detection