

SDX 10080 SCT



→ Hold baggage and air cargo screening elevated to a new level — a system built on unparalleled expertise

Featured Highlights

- Dual-energy CT + optional high-resolution dual-view line scanner
- 3D and optional 2D high resolution colour images
- Belt speed of 0.5m/sec
- Large square tunnel to screen objects up to 100 x 80cm
- Scalable and adaptable modular design
- Reduced energy consumption
- Simplified cooling
- Optional iCMORE algorithms for expanded detection capabilities

Leveraging its' extensive and unique experience with well-proven, globally adopted Explosives Detection Systems (EDS), Smiths Detection has developed an evolutionary hold baggage and air cargo screening system: the SDX 10080 SCT. It brings together the best elements from the highly successful ECAC Standard 3.1 and TSA certified HI-SCAN 10080 XCT and CTX 9800 — and elevates them to a completely new level.

The result is an efficient, modular and future-proof system offering exceptional levels of security. It delivers outstanding performance via a dual-energy Computed Tomography (CT) scanner and an optional dual-view, dual-energy line scanner.

A smart dual-energy detector in the CT scanner produces highly accurate data to optimise detection performance for both current and future threats — making the SDX 10080 SCT a sustainable and forward looking investment.

The optional, upgradeable, line scanner supplements the high-quality 3D images with high-resolution 2D images. This is crucial for identifying thin wires and small objects (such as detonators) to ensure reliable on-screen alarm resolution. Additionally, with two scanners there is inherent self-redundancy, ensuring continued operation in case one goes down.

A conveyor speed of 0.5 m/sec plus smaller bag spacing enable the SDX 10080 SCT to screen over 1,800 items per hour. Dynamic calibration maintains consistent performance — it is not necessary to periodically stop the conveyor. The large rectangular tunnel easily handles items measuring up to 100 x 80cm. With significantly reduced power consumption, a much simpler air-based cooling system is required.

Designed with a reduced height and the same footprint as earlier models, the SDX 10080 SCT is a simple drop-in replacement, making installation easy in even the most challenging environments. It is built on a scalable and adaptable platform which can grow to meet future demands for higher speeds or new detection technologies for emerging threats.

The SDX 10080 SCT is designed to provide the most efficient explosives detection system with reduced total cost of ownership — a sustainable investment with minimal risk.

General Specifications

Technology	Dual-energy CT with optional dual-view, dual energy Line Scanner
Belt speed	0.5 m/s
Throughput	> 1.800 bags per hour (based on average bag length of 80 cm, bag gap < 20 cm)
Tunnel dimensions (WxH)	1070 x 810 mm, 42.1" x 31.9"
Max. object size (WxHxL)	1000 x 800 x 1750 mm, 39.4" x 31.5" x 69.0", Out-of-Gauge (OOG) version object length up to 3800mm

X-ray and Image generating system

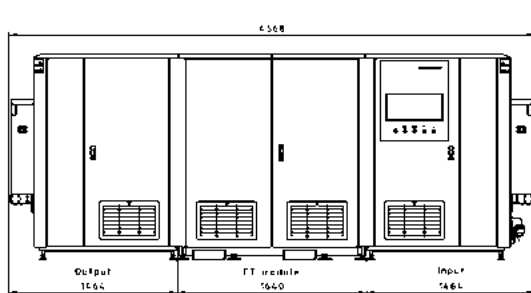
No. of X-ray generators	without Line Scanner (LS): 1 • with optional LS: 3
X-ray converter	Photodiodes with highly efficient scintillators

Installation Data

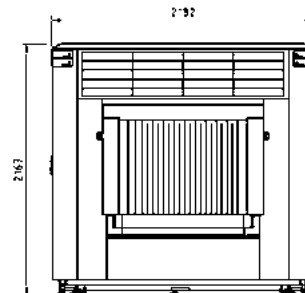
X-ray leakage	Meets all applicable laws and regulations with respect to X-ray emitting devices
CE conformity	Designed to be compliant with requirements of 2006/42/EC, 2014/35/EU, 2014/30/EU, 2011/65/EU, 2011/863/EU
Sound pressure level	<70 dBA
Cooling	Air cooled with no active cooling (air-conditioning) required
Operating temperature	0°C up to 40°C (32°F up to 104°F)
Humidity	10% -95% (non-condensing)
Storage temperature	-20°C up to 60°C (-4°F up to 140°F)
Power Supply	400 VAC + 10% / -15% 3-Phase, 50 Hz/60 Hz
Power consumption (Max.)	without LS: 8.5kVA • with LS: 9 kVA
Protection class	IP 33 (protected from tools and sprinkler water)
Dimensions (L x W x H)	without LS: 4568 x 2182 x 2167 mm, 179.8" x 85.9" x 85.3" with LS: 5450 x 2182 x 2167 mm, 214.6" x 86.6" x 85.3"
Weight	without LS: 6740 kg, 14,857 lbs • with LS: 7890 kg, 17,392 lbs
Conveyor height	minimum 700 mm, 27.6"
Max. Conveyor load	75 kg/m ² , 165 lbs/m ² (evenly distributed); 200 kg, 441 lbs total
Calibration	Dynamic calibration in the background: Automatically calibrates between bags without interrupting operations
Duty cycle	100%

Certification

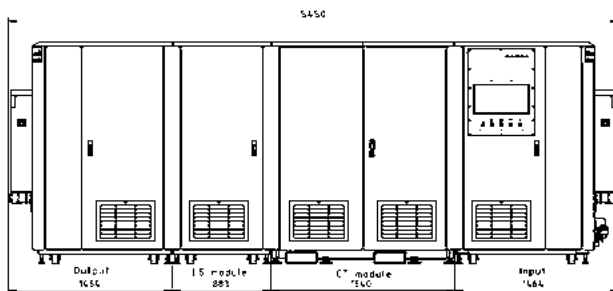
Aimed EDS Standards	ECAC Std.3.1 & 3.2, TSA 7.3
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SDX 10080 SCT



SDX 10080 SCT / SDX 10080 SCT LS



SDX 10080 SCT LS

For product information, sales or service, please go to www.smithsdetection.com/locations