

# SDX™ 10080 SCT

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



## Feature Highlights

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

Leveraging its extensive experience with well proven, globally adopted Explosives Detection Systems (EDS), Smiths Detection has developed an advanced hold baggage and air cargo screening system: the SDX 10080 SCT.

It brings together the best elements of the successful, ECAC Standard 3.1 and TSA certified HI-SCAN 10080 XCT and CTX 9800 and further develops them into an efficient, modular and future proof system offering exceptional levels of security.

At its core, the SDX 10080 SCT features a dual energy Computed Tomography (CT) scanner delivering outstanding detection performance, complemented by an optional dual view, dual energy line scanner.

A smart dual energy detector within the CT scanner generates 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, upgradable line scanner supplements the high quality 3D CT images with high resolution 2D images. This combination is crucial for identifying thin wires and small objects, such as detonators, and supports reliable on screen alarm resolution. With two scanners, the system also offers inherent self redundancy to ensure continued operation in the event of a system failure.

With a conveyor speed of 0.5 m/s and reduced bag spacing, the SDX 10080 SCT can screen more than 1,800 bags per hour. Dynamic calibration maintains consistent performance without interrupting operations. The large rectangular tunnel easily accommodates objects measuring up to 100 × 80 cm.

Designed with a reduced height and the same footprint as earlier models, the SDX 10080 SCT enables straightforward installation, even in challenging environments. Built on a scalable and adaptable platform, it is designed to meet future demands for higher throughput or new detection technologies for emerging threats.

The SDX 10080 SCT delivers efficient explosives detection performance with reduced total cost of ownership, providing a sustainable investment with minimal risk.

ECAC EDS Standard 3.1

## 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

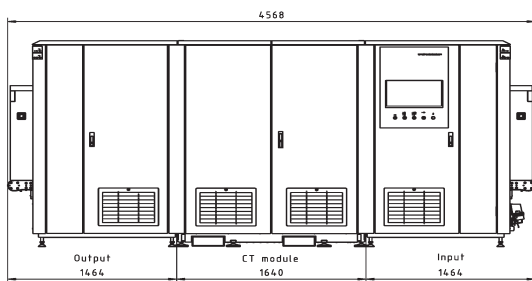
No. of X-ray generators	without Line Scanner (LS): 1 • with optional LS: 3
X-ray converter	Photodiodes with highly efficient scintillators

## Installation Data

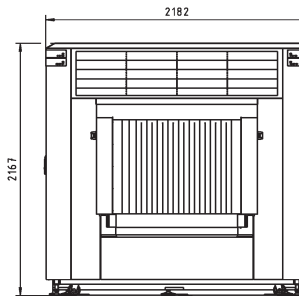
X-ray leakage	Meets all applicable laws and regulations with respect to X-ray emitting devices
CE conformity	Designed to be compliant with requirements of 2006/42/EC, 2014/35/EU, 2014/30/EU, 2011/65/EU, 2011/863/EU
Sound pressure level	<70 dBA
Cooling	Air cooled with no active cooling (air-conditioning) 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 85.9" 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 <sup>2</sup> , 165 lbs/m <sup>2</sup> (evenly distributed); 200 kg, 441 lbs total
Calibration	Dynamic calibration in the background: Automatically calibrates between bags without interrupting operations
Duty cycle	100%

## Certification

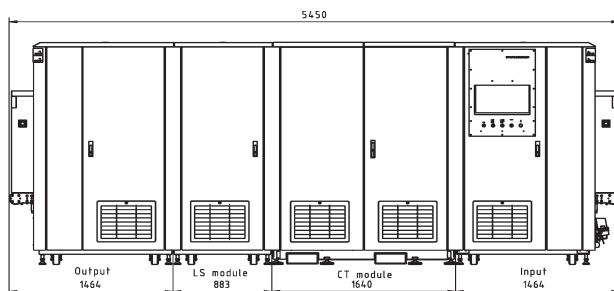
Achieved EDS Standard	ECAC EDS Standard 3.1
Aimed EDS Standards	ECAC EDS Standard 3.2, TSA 7.3



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](http://www.smithsdetection.com/locations)

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