SDX™ 100100 HC

Advanced Technology for Best Performance

Feature Highlights

- Excellent detection capabilities exceeding international standards by far
- Latest hard- and software configuration for best performance and future proofing
- Various options for integration, allowing adaption per application
- AI based iCMORE option for additional detection options, including Lithium batteries and weapons
- Ergonomic conveyor height allowing convenient manual handling of inspected objects
- Wire resolution AWG 40
- Steel penetration 37 mm

SDX 100100 HC is especially designed to meet the requirements and needs of airports, customs facilities, carriers, parcel services or wherever high security of a large variety of dimensions is required.

The SDX 100100 HC is equipped with a 160kV generator providing powerful penetration capabilities and outstanding image quality. This detection performance facilitates reliably inspections of tightly packed objects.

Its functional system design provides highest performance at a compact footprint. Additionally, a conveyor load of 200 kg allows the fast screening of break bulk cargo.

The SDX 100100 HC can be easily integrated, both, physically into external material handling systems as well as into one intelligent network that allows Central Image Processing.

The new hardware and HiTraX 3 software provide best in class image quality for increased operational efficiency. The modular design is optimized for the use of common parts and ease of manufacture, ensuring easy service and operations.

SDX 100100 HC can be further enhanced by Smiths Detection's iCMORE automated threat detection software for weapons and lithium batteries to increase security.

General Specifications

Tunnel dimensions	1009 (W) x 1010 (H) [mm] • 39.7" (W) x 39.8" (H)
Max. object size	1000 (W) x 1000 (H) [mm] • 39.4" (W) x 39.4" (H)
Conveyor height	750 mm (29.5")
Conveyor speed	0.2 m/s
max. conveyor load even distributed	200 kg (440 lbs)
Resolution (wire detectability)	standard: 39 AWG (0.09 mm) • typical: 40 AWG (0.08 mm)
Penetration (steel)	standard: 35 mm • typical 37 mm
Film safety	guaranteed up to ISO 1600 (33 DIN)
Duty cycle	100 %, no warm-up procedure required

X-ray Generator

Anode voltage • cooling	160 kV cp • hermetically sealed oil bath
Beam direction	vertical (bottom to top)

Image Generating System
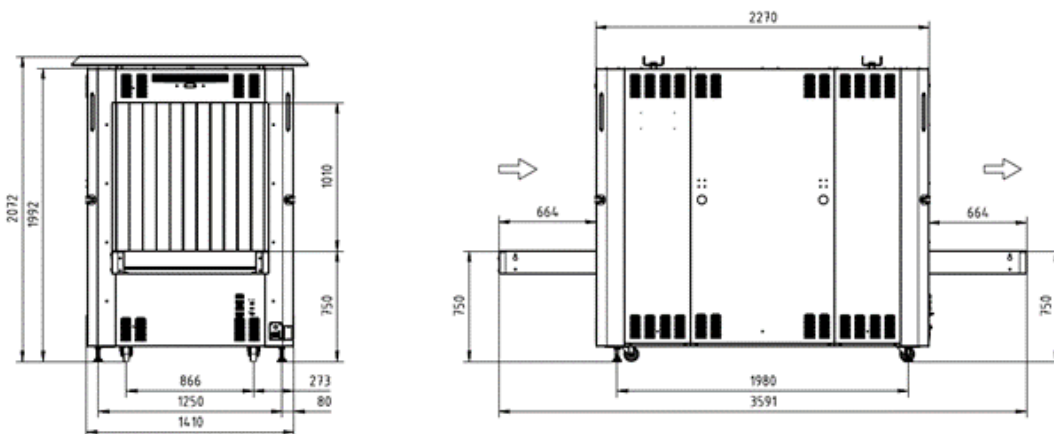
X-ray converter	L-shaped detector system with large-scale integrated, monolithic amplifier
Grey levels stored	4096
Image presentation	Color Image (Default), HI-MAT^{Plus}
Digital video memory	1920 x 1200 / 24 bit
Image evaluation functions	VARI-MAT, O^{2Plus}, OS^{Plus}, HIGH, HI-SPOT, SEN, X-plore, Opti-Zoom, HDA, stepless electronic Zoom: enlargement up to 256 times and scaling down up to 2x, Optimized Background Contrast Mode
Monitor	Flat screen LCD Monitor, min 1920 x 1200 pixel

Additional Features

Functions	Display of date/time, software counters for; objects, alarms, operating hours, X-ray on hours, user ID-number, luggage marking system (acoustic), display of operating mode, REVIEW-feature of last 20 images, programmable priority keys, standard network interface, automatic return mode, USB 3.0 interface, Printer support, IMS (Image Store System – storage of up to 100.000 images), Full reverse mode
System Diagnostics Features	Power-on Self-Test (POST), Real-time Background Diagnosis (RBD), Real-time System Feedback (RSF)
Options	HI-TIP, SD Training System, Random Recheck, iCMORE Weapons, iCMORE Lithium Batteries
Accessories	Passive In-/Output roller conveyors, motorized In-/Output conveyors, Tunnel extensions, Barcode reader, Attendance detector, iLOC monitor consoles

Installation Data

X-ray leakage	<1 µSv/h, meets all applicable laws and regulations with respect to X-ray emitting devices.
CE-labelling	in compliance with directives 2006/42/EC, 2014/35/EU, 2014/30/EU
Sound pressure level	< 65 dB(A)
Operating / storage temperature	0° - 40°C / -20°C - +60°C
Humidity	5% - 95% (non-condensing)
Power supply	standard: 100, 120, 200, 230, 240 VAC +10% /-20% • 50 Hz / 60 Hz ± 3 Hz
Power consumption	approx. 0,5 kVA (operating)
Protection class system / keyboard	IP 20 / IP 43
Dimensions • Weight	3591 (L) x 1410 (W) x 1992 (H) [mm] • approx. 1450 kg
	141.4" (L) x 55.5" (W) x 78.4" (H) • approx. 3196 lbs
Mechanical construction	steel construction with steel panels, mounted on roller castors
	standard color: dark blue / B11-W1

smiths detection