smiths detection

SDX™ 100100 LC
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
- Ruggedized design and robust low conveyor allowing the handling of heavy goods
- Wire resolution AWG 38
- Steel penetration 35 mm

SDX 100100 LC is especially designed for screening oversized baggage and break-bulk freight reaching up to 100 x 100 cm in size. In addition, a 200 kg conveyor load supports break bulk cargo screening, and the tunnel easily handles out of gauge baggage.

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

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

Due to the low installation height of the SDX 100100 LC conveyor belt, the connection of supplementary feed- and/or discharge conveyor systems for heavy freight is simple.

The SDX 100100 LC is especially suited to meet the needs and applications of airports, custom facilities, and parcel services.

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	350 mm (13.7")
Conveyor speed	0.2 m/s
max. conveyor load even distributed	200 kg (440 lbs)
Resolution (wire detectability)	standard: 36/37 AWG (0.12 mm) • typical: 38 AWG (0.1 mm)
Penetration (steel)	standard: 32 mm • typical 35 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 (top to bottom)

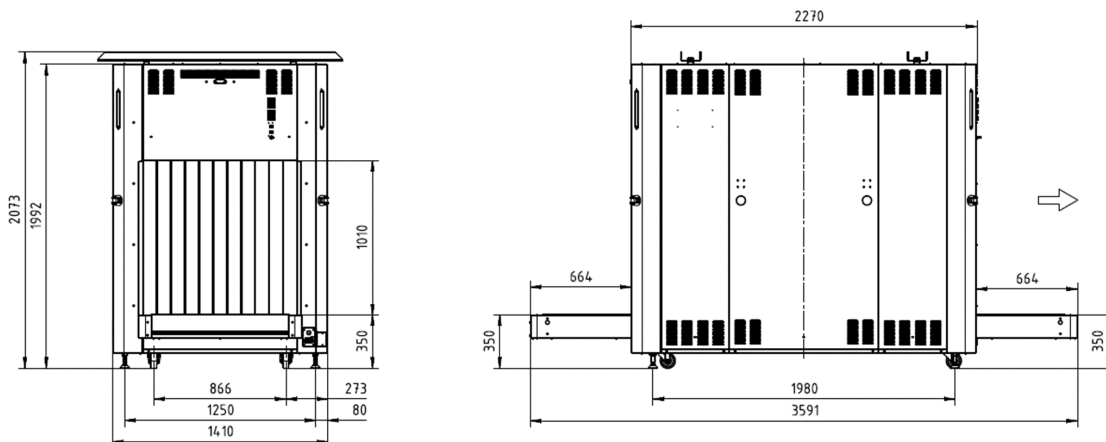## Image Generating System

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

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

smiths detection