

# HI-SCAN™ 100100T

New: 160 kV X-ray source – typical steel penetration 35 mm



## Feature Highlights

- Ideal method of inspecting oversized baggage and freight
- Ease of handling heavy goods via low conveyor belt
- Outstanding image quality with new HiTraX electronics
- Wire detectability AWG 38
- New HI MAT<sup>Plus</sup> technology for better material distinction

HI-SCAN 100100T is a state-of-the-art X-ray inspection system for the scanning of objects up to a size of 100 X 100 cm.

The HI-SCAN 100100T is specially designed to meet the needs and applications of airports, customs facilities, transportation operations, carriers, parcel services or wherever high security and total screening of large objects are required.

The low installation height of the HI-SCAN 100100T conveyor system facilitates the connection of supplementary feed- and/or discharge conveyor systems for heavy freight.

With an installation base of more than 37,000 X-ray security units distributed throughout 150 countries across all continents and a worldwide customer service network the Smiths Heimann is the unequalled world leader in supplying X-ray security systems.

Operator training courses offered by Smiths Heimann have an excellent reputation all over the world, and they are carried out individually for each customer.

As the world's leading supplier of X-ray inspection systems Smiths Heimann provides an efficient, global service network working fast and reliably.

ECAC regulation (EU) 2015/1998

DGAC-STAC approved (France)

## General Specifications

<b>Tunnel dimensions</b>	1010 (W) x 1010 (H) [mm] • 39.7" (W) x 39.7" (H)
<b>Max. object size</b>	1000 (W) x 1000 (H) [mm] • 39.4" (W) x 39.4" (H)
<b>Conveyor height <sup>1)</sup></b>	approx. 350 mm [13.7"]
<b>Conveyor speed (adjustable with frequency converter)</b>	typical 0.2 [m/s]
<b>max. conveyor load even distributed over the whole conveyor <sup>2)</sup></b>	200 kg [440 lbs]
<b>Resolution (wire detectability)</b>	standard: 36 AWG (0.13 mm) • typical: 38 AWG (0.1 mm)
<b>Penetration (steel) <sup>3)</sup></b>	standard: 31 mm • typical: 35 mm
<b>ASTM 792-08 (Test 1, Test 3, Test 4)</b>	Test 1: AWG 30 4) / Test 3: 1.6 mm horz./2.0 mm vert. 4) / Test 4: 26 mm 4)
<b>External dose rate</b>	≤ 2 µSv [0,2 mrem]
<b>Film safety</b>	guaranteed up to ISO 1600 [33 DIN]
<b>Duty cycle</b>	100 %, no warm-up procedure required

## X-ray Generator

<b>Anode voltage • cooling</b>	160 kV cp • hermetically sealed oil bath
<b>Beam direction</b>	diagonal (from top to bottom)

## Image Generating System

<b>X-ray converter</b>	L-shaped detector line
<b>Grey levels stored</b>	4096
<b>Image presentation</b>	B/W, color
<b>Digital video memory</b>	1280 x 1024 / 24 bit
<b>Image evaluation functions</b>	VARI-MAT, O <sup>2</sup> , OS, HIGH, HI-SPOT, SEN, XPlore, Opti-Zoom, HDA, electronic zoom: stepless enlargement up to 64-times
<b>Monitor</b>	Flat Panel LCD Monitor

## Additional Features

<b>Functions</b>	fading-in of date/time, luggage counter, user id-number, luggage marking system (acoustic), display of operating mode, REVIEW-feature (to recall previously visible image areas), zoom overview, free programmable keys, USB 2.0 interface, stepless zoom, IMS (Image Store System - stores up to 100,000 images)
<b>Options</b>	X-ACT, HI-TIP, Random ReCheck

## Installation Data

<b>X-ray leakage</b>	meets all applicable laws and regulations with respect to X-ray emitting devices.
<b>CE-labelling</b>	in compliance with directives 2006/42/EC, 2014/35/EU, 2014/30/EU
<b>Sound pressure level</b>	< 70 dB(A)
<b>Operating- / storage temperature</b>	0° - 40°C / -20°C - +60°C
<b>Humidity</b>	5% - 95% (non-condensing)
<b>Power supply <sup>3)</sup></b>	standard: 230 VAC or 120 VAC +10% / -15% • 50 Hz / 60 Hz ± 3 Hz
<b>Power consumption</b>	approx. 1.0 kVA
<b>Protection class system / keyboard</b>	IP 20 / IP 43
<b>Dimensions • Weight <sup>4)</sup></b>	3578 (L) x 1234 (W) x 1900 (H) [mm] • approx. 930 kg 141.0" (L) x 48.6" (W) x 74.8" (H) • approx. 2050 lbs
<b>Mechanical construction</b>	steel construction with steel panels, mounted on roller castors Standard color: RAL 7016 (dark gray)

<sup>1)</sup> approx. values (adjustable)

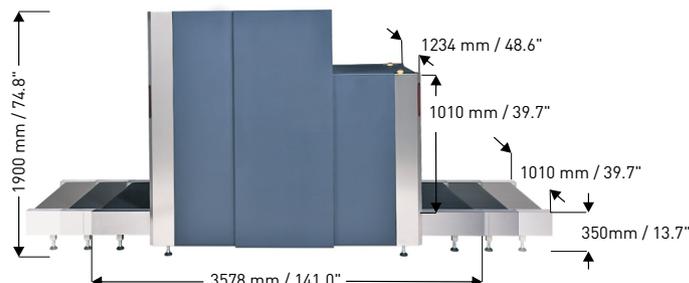
<sup>2)</sup> measured at ambient temperature of 20°C and nominal voltage

<sup>3)</sup> proprietary quality management test piece: steel step wedge, CU wires, belt speed 0.2 m/s

<sup>4)</sup> max. measurable values with ASTM 792-08 test piece

<sup>5)</sup> different values optional

<sup>6)</sup> without control desk, keyboard, monitor(s) etc.



For product information, sales or service, please go to [www.smithsdetection.com/locations](http://www.smithsdetection.com/locations)

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