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bringing technology to life

HI-SCAN™ 100100V

HEIMANN X-RAY TECHNOLOGY

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

Feature Highlights

- **Universal X-ray system for largest variety of item dimensions**
- **Excellent image presentation due to optimal X-ray geometry**
- **Outstanding image quality with new HiTraX electronics**
- **Wire detectability AWG 38**
- **HR option for AWG 39**
- **New HI MAT Plus technology for better material discrimination**

The HI-SCAN 100100V is specifically designed to meet the needs and applications of airports, customs facilities, transportation operations, carriers, parcel services or wherever high security and total screening of a large variety of dimensions is required.

The HI-SCAN 100100V is a compact X-ray security screening system with tunnel dimensions of 1000 mm width by 1000 mm height. It permits the inspection of bulky as well as small items without any loss of X-ray image quality.

For applications requiring a better wire recognition a high resolution detector line is available a an option, allowing for AWG 39.

With an installation base of more than 70.000 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.

Technical Data **HI-SCAN 100100V**

General Specifications

Tunnel dimensions	1010 (W) x 1010 (H) [mm] • 39.7" (W) x 39.7" (H)
Max. object size	1000 (W) x 1000 (H) [mm] • 39.4" (W) x 39.4" (H)
Conveyor height [1]	approx. 770 mm (30.3")
Conveyor speed (adjustable with frequency converter)	typical 0.2 [m/s]
max. conveyor load even distributed over the whole conveyor	200 kg (440 lbs)
Resolution (wire recognition)	standard: 36 AWG (0.13 mm Cu) • typical [2]: 38 AWG (0.1 mm Cu)
Resolution (wire recognition) (HR option)	standard: 38 AWG (0.1 mm Cu) • typical [2]: 39 AWG (0.09 mm Cu)
Penetration (steel) [2]	standard: 32 mm • typical: 35 mm
ASTM 792-08 (Test 1, Test 3, Test 4)	Test 1: AWG 32 [5] / Test 3: 1.6 mm horz./1.3 mm vert. [5] / Test 4: 30 mm [5]
X-ray dose / inspection (typical)	standard: 0.8 µSv (0.08 mrem) • with HI-MAT: 1.6 µSv (0.16 mrem)
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	diagonal (from bottom to top)

Image Generating System

X-ray converter	L-shaped detector line
Grey levels stored	4096
Image presentation	B/W, color
Digital video memory	1280 x 1024 / 24 bit
Image evaluation functions	VARI-MAT, O^2, OS, HIGH electronic zoom: stepless enlargement up to 16 times
Monitor	Flat Panel LCD Monitor

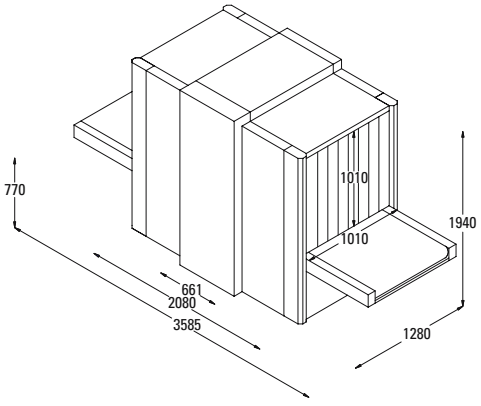
Additional Features

Functions	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
Options	X-ACT, HI-TIP, HI-SPOT, SEN, XPlore, IMS (image management system), Xport, Media Bay for RIDA (250 GB), CD/RW module, High resolution (HR) detector line

Installation Data

X-ray leakage	meets all applicable laws and regulations with respect to X-ray emitting devices.
CE-labelling	in compliance with directives 2004/108/EC, 2006/42/EC, 2006/95/EC
Sound pressure level	< 70 dB(A)
Operating- / storage temperature	0° - 40°C / -20°C - +60°C
Humidity	10% - 90% (non-condensing)
Power supply [3]	standard: 230 VAC or 120 VAC +10% / -15% • 50 Hz / 60 Hz ± 3 Hz
Power consumption	approx. 1.0 kVA
Protection class system / keyboard	IP 20 / IP 43
Dimensions • Weight [4]	3585 (L) x 1280 (W) x 1940 (H) [mm] • approx. 930 kg 141.1" (L) x 50.4" (W) x 76.4" (H) • approx. 2050 lbs
Mechanical construction	steel construction with steel panels, mounted on roller castors standard color: RAL 7016 (dark gray)

[1] approx. values (adjustable)
[2] proprietary quality management test piece: steel step wedge, CU wires, belt speed 0.2 m/s
[3] different values optional
[4] without control desk, keyboard, monitor(s) etc.
[5] max. measurable values with ASTM 792-08 test piece



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

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