

HI-SCAN™ 180180-300kV

HEIMANN X-RAY TECHNOLOGY



Feature Highlights

- **Universal X-ray system for bulk items**
- **Excellent image presentation (optimal X-ray geometry)**
- **Outstanding image quality with new HiTraX electronics**
- **New HI-MAT^{Plus} technology for better material distinction**
- **Typical penetration 60 mm of steel**

The HI-SCAN 180180-300kV 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 is required.

It is a compact medium energy (300 kV) X-ray cargo inspection system with tunnel dimensions of 1800 mm (71") width and 1800 mm (71") height. It permits the inspection of pallets and LD-3 airfreight containers.

With an installation base of more than 25,000 X-ray security units distributed throughout 150 countries in all continents and a worldwide customer service network 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 are carried out individually for each customer.

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

Technical Data **HI-SCAN 180180-300kV**

General Specifications

Tunnel dimensions	1810 (W) x 1810 (H) [mm] • 71.3" (W) x 71.3" (H)
Max. object size	1790 (W) x 1700 (H) [mm] • 70.4" (W) x 66.9" (H)
Conveyor type:	standard: roller conveyor option 1: modular plastic belt conveyor • option 2: heavy duty roller conveyor
Conveyor height ¹⁾	approx. 315 mm [12.4"]
Conveyor speed [adjustable with frequency converter]	standard 0.24 [m/s] • option 0.12 [m/s] complies to EU 781/2005 [also to the respective standards will be effective from 01.01.2009]
max. conveyor load even distributed over the whole conveyor	standard: 2000 kg [4409 lbs] option 1 ²⁾ : 2000 kg [4409 lbs] • option 2 ³⁾ : 3000 kg [6614 lbs]
Resolution (wire detectability)	standard: 32 AWG (0.2 mm) • typical: 34 AWG (0.16 mm)
Penetration (steel) ⁴⁾	standard: 55 mm • typical: 60 mm
X-ray dose / inspection (typical)	standard: 1.2 µSv (0.12 mrem) • with HI-MAT: 2.5 µSv (0.25 mrem)
Film safety	guaranteed up to ISO 1600 [33 DIN]
Duty cycle	100 %, no warm-up procedure required

X-ray Generator

Anode voltage • current • cooling	300 kV cp • 1 mA • hermetically sealed oil bath
Beam direction	diagonal

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
Monitor	electronic zoom: stepless enlargement up to 16-times 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	HI-SPOT, SEN, XPlore, IMS (image management system), Xport, Media Bay for RIDA (250 GB), ZIP module or CD/RW module

Installation Data

X-ray leakage	meets all applicable laws and regulations with respect to X-ray emitting devices.
CE-labelling	in compliance with guidelines 98/37/EWG, 72/23/EWG, 89/336/EWG
Operating- / storage temperature ⁵⁾	0° - 40°C / -20°C - +60°C
Humidity	10% - 90% (non-condensing)
Power supply ⁶⁾	400 VAC, 3 phases • 50 Hz / 60 Hz ± 3 Hz
Power consumption	approx. 2.8 kVA (without options, with roller conveyor) approx. 2.8 kVA (without options, with modular plastic belt) approx. 3.5 kVA (without options, with heavy duty roller conveyor)
Protection class keyboard	IP 43
Dimensions • Weight ⁷⁾	7040 (L) x 3440 (W) x 2370 (H) [mm] • approx. 6000 kg 277.2" (L) x 135.4" (W) x 93.3" (H) • approx. 13200 lbs option 1 ^{2) 8)} : modular plastic belt conveyor: 7620 (L) [mm], 300" (L)
Mechanical construction	steel construction with steel panels, mounted on roller castors standard color(s): RAL 7016 (dark gray)

¹⁾ approx. values (adjustable)

²⁾ option 1: modular plastic belt conveyor

³⁾ option 2: heavy duty roller conveyor

⁴⁾ measured in beam direction

⁵⁾ extended temperature range on request

⁶⁾ optional: 200 VAC, 220 VAC, 380 VAC, 415 VAC, 480 VAC

⁷⁾ without control desk, keyboard, monitor(s) etc.

⁸⁾ optional extension 800 mm [31.5"] available



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

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