

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 75 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.

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 small pitch roller conveyor
Conveyor height ¹⁾	approx. 315 mm (12.4")
Conveyor speed	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 small pitch roller conveyor 5000 kg (11023 lbs) ²⁾ / 0,75 t/m (504 lbs/ft)
Resolution (wire detectability)	standard: 32 AWG (0.2 mm) • typical: 32 AWG (0.2 mm)
Penetration (steel) ³⁾	standard (view A): 70 mm • typical: 75 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
	electronic zoom: stepless enlargement up to 64-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	HI-SPOT, SEN, Xplore, IMS (Image Store System - stores up to 100,000 images), Xport

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 ⁴⁾	0° - 40°C / -20°C - +60°C
Humidity	10% - 90% (non-condensing)
Power supply ⁵⁾	400 VAC, 3 phases • 50 Hz / 60 Hz ± 3 Hz
Power consumption	approx. 2.8 kVA (without options)
Protection class keyboard	IP 43
Dimensions • Weight ⁶⁾	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
Mechanical construction	steel construction with steel panels, mounted on roller castors standard color(s): RAL 7016 (dark gray)

¹⁾ approx. values (adjustable)

²⁾ option: heavy duty roller conveyor

³⁾ test piece min. dimensions: 250 x 540 [mm] (W x L)

⁴⁾ extended temperature range on request

⁵⁾ optional: 200 VAC, 220 VAC, 380 VAC, 415 VAC, 480 VAC

⁶⁾ without control desk, keyboard, monitor(s) etc.



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

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