

HI-SCAN 180180-300kV

HEIMANN X-RAY INSPECTION SYSTEM



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**
- **Large range of applications**

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 ser-

vice 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: modular plastic belt conveyor)
Conveyor height ¹⁾	approx. 300 mm (12")
Conveyor speed (adjustable with frequency converter)	approx. 0.24 [m/s]
max. conveyor load even distributed over the whole conveyor	1200 kg (2700 lbs), other loads (e. g. 2000 kg or more) are available on customer requirement
Resolution (wire detectability)	standard: 32 AWG (0.2 mm) • typical: 34 AWG (0.16 mm)
Penetration (steel) ³⁾	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
	electronic zoom: stepless enlargement up to 16-times
Monitor	17"-color monitor, emission meets MPR II and TCO 99 standards

Additional Features

Features	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

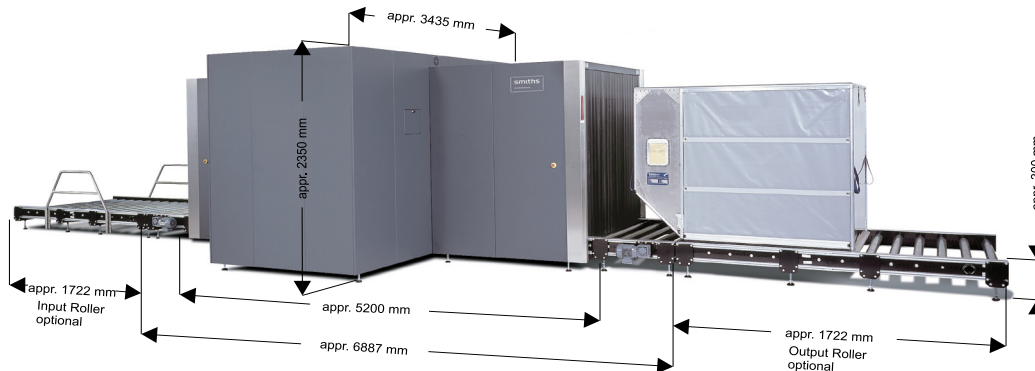
X-ray leakage	meets all applicable laws and regulations with respect to X-ray emitting devices.
CE-labelling	in compliance with guidelines 98/37/EWG, 72/23/EWG, 89/336/EWG
Operating- / storage temperature ⁴⁾	0° - 40°C / -20°C - +60°C
Humidity	10% - 90% (non-condensing)
Power supply	400 VAC, 3 phases • 50 Hz / 60 Hz ± 3 Hz, others on request
Power consumption	approx. 2.5 kVA (without options, with roller conveyor) approx. 3.5 kVA (without options, with modular plastic belt)
Protection class keyboard	IP 43
Dimensions • Weight ⁶⁾	6887 (L) x 3435 (W) x 2350 (H) [mm] • approx. 6000 kg 271.1" (L) x 135.2" (W) x 92.5" (H) • approx. 13200 lbs option 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)

⁴⁾ extended temperature range on request

³⁾ measured in beam direction

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



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