

HI-SCAN™ 145180-160kV

HEIMANN X-RAY TECHNOLOGY



Feature Highlights

- **Universal X-ray system for palletized items**
- **Excellent image presentation (optimized X-ray geometry)**
- **Outstanding image quality with new HiTraX electronics**
- **New HI-MAT Plus technology for advanced material distinction**
- **Typical penetration: 35 mm of steel**

The HI-SCAN 145180-160kV has been specially designed to meet the needs and applications of warehouses, carriers, forwarders and couriers for airports (palletized Lower Deck - Cargo).

The HI-SCAN 145180-160kV is a low energy (160 kV) X-ray inspection system with tunnel dimensions of 1450 mm (57") width and 1800 mm (71") height. It is especially suitable for the inspection of air cargo transported on standard Euro, British or US pallets.

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

Technical Data **HI-SCAN 145180-160kV**

General Specifications

Tunnel dimensions	1450 (W) x 1800 (H) [mm] • 57" (W) x 70.9" (H)
Max. object size	1440 (W) x 1700 (H) [mm] • 56.7" (W) x 66.9" (H)
Conveyor type	standard: heavy duty roller conveyor (capacity 2 t) option 1: modular plastic belt conveyor • option 2: heavy duty roller conveyor (capacity 3 t)
Conveyor height ¹⁾	approx. 315 mm (12.4")
Conveyor speed	typical 0.24 [m/s]
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: 36 AWG (0.13 mm) • typical: 38 AWG (0.10 mm)
Penetration (steel) ⁴⁾	standard: 32 mm • typical: 35 mm
X-ray dose / inspection (typical)	standard: 0.8 µSv (0.08 mrem) • with HI-MAT: 1.5 µSv (0.15 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 operated • 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, 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-TIP, HI-SPOT, SEN, XPlore, IMS (image management system), Xport, Media Bay for RIDA (250 GB), 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, 73/23/EWG, 89/336/EWG
Operating- / storage temperature ⁵⁾	0° - 40°C / -20°C - +60°C
Humidity	10% - 90% (non-condensing)
Power supply ⁶⁾	standard: 230 VAC +10% / -15% • 50 Hz / 60 Hz ± 3 Hz option ³⁾ : 400 VAC • 3 phases • 50 Hz ± 3 Hz
Power consumption	approx. 1.6 kVA (without options, with roller conveyor) approx. 1.8 kVA (without options, with modular plastic belt conveyor) approx. 3.5 kVA (without options, with heavy duty roller conveyor)
Protection class keyboard	IP 43
Dimensions • Weight ⁷⁾	5520 (L) x 2140 (W) x 2300 (H) [mm] • approx. 1900 kg 217.3" (L) x 84.3" (W) x 90.6" (H) • approx. 4189 lbs option 1 ⁸⁾ : 6185 (L) [mm] • 243.5" (L) option 2 ³⁾ : 5450 (L) [mm] • 214.6" (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 (capacity 3 t)

⁴⁾ measured in beam direction

⁵⁾ extended temperature range on request

⁶⁾ optional: 100 VAC, 120 VAC, 200 VAC, 240 VAC

also optional ³⁾: 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

Smiths Heimann GmbH, Im Herzen 4, 65205 Wiesbaden, Germany
Modifications reserved. 95591021 14/03/2012 © Smiths Detection Group Ltd. - In some cases, the figures contain options
HI-SCAN is a trademark of Smiths Detection Group Ltd.

smiths detection