

HI-SCAN 145180

HEIMANN X-RAY INSPECTION SYSTEM



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: 30 mm of steel**
- **OTS Operator Training System available as option**

The HI-SCAN 145180 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 is a low energy (140 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.

With an installation base of more than 25,000 X-ray security units distributed throughout 150 countries in all continents

and a world wide customer service 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 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

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: roller conveyor (option: modular plastic belt conveyor)
Conveyor height ¹⁾	approx. 300 mm (12")
Conveyor speed (adjustable with frequency converter)	typical 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)	
Penetration (steel) ³⁾	standard: 36 AWG (0.13 mm) • typical: 38 AWG (0.10 mm)
X-ray dose / inspection (typical)	standard: 25 mm • typical: 30 mm
Film safety	standard: 0.7 µSv (0.07 mrem) • with HI-MAT: 1.3 µSv (0.13 mrem)
Duty cycle	guaranteed up to ISO 1600 [33 DIN] 100 %, no warm-up procedure required

X-ray Generator

Anode voltage • cooling	160 kV cp (140 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 17"-color monitor, emission meets MPR II and TCO 99 standards other monitors on request

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-TIP, 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, 73/23/EWG, 89/336/EWG
Operating- / storage temperature ⁴⁾	0° - 40°C / -20°C - +60°C
Humidity	10% - 90% (non-condensing)
Power supply ⁵⁾	standard: 230 VAC or 120 VAC +10% / -15% • 50 Hz / 60 Hz ± 3 Hz
Power consumption	approx. 1.5 kVA (without options, with roller conveyor) approx. 2.5 kVA (without options, with modular plastic belt)
Protection class keyboard	IP 43
Dimensions • Weight ⁶⁾	5360 (L) x 2140 (W) x 2285 (H) [mm] • approx. 1900 kg 211" (L) x 84.3" (W) x 90" (H) • approx. 4189 lbs option modular plastic belt conveyor: 6185 (L) [mm] • 243.5" (L)
Mechanical construction	steel construction with steel panels, mounted on roller castors standard color(s): RAL 7016 (dark gray)

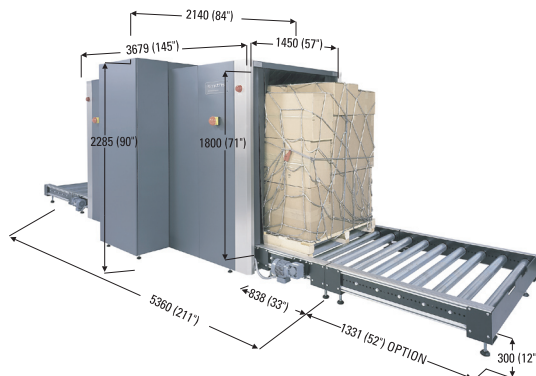
¹⁾ approx. values (adjustable)

³⁾ measured in beam direction

⁴⁾ extended temperature range on request

⁵⁾ different values optional

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



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