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HI-SCAN™ 180180-2is pro

HEIMANN X-RAY TECHNOLOGY

Feature Highlights

- **Dual View X-ray system for consolidated and palletized goods**
- **Excellent image presentation through optimized beam geometry**
- **Rugged roller conveyors for loads up to 5000 kg when evenly distributed**
- **Tunnel dimension allows for screening the max. skid size of 1,22 m x 1,22 m x 1,65 m (W x L x H) and LD3 containers**
- **Typical penetration: 75 mm of steel, typical-wire resolution AWG 37**

The HI-SCAN 180180-2is pro has especially been designed for the inspection of large-scale consolidated and palletized goods, with tunnel dimensions to allow screening of LD3 containers.

Based on a dual-view concept, the system provides two independent views of the screened goods, shifted by 90°, allowing a precise and reliable image evaluation.

HI-SCAN 180180-2is pro offers excellent detection capabilities and outstanding image quality.

The two powerful 300 kV X-ray generators are capable of penetrating even large and dense objects reducing re-inspection times. Consolidated cargo does not need to be broken down into smaller items, thus keeping the inspection process fast and efficient.

The small pitch roller conveyors ensure a smooth passage of the scanned goods without disruption and support a total load of up to 5000 kg (evenly distributed).

The compact footprint minimizes the required floor space, keeping the lifecycle costs low.

The HS 180180-2is pro is a powerful tool for the air cargo industry, including forwarders and regulated agents. It is also suitable for customs purposes and for screening received or outgoing goods in critical infrastructure applications.

HI-SCAN 180180-2is pro provides better security and operational efficiency when it comes to the inspection of cargo and air cargo.

Technical Data **HI-SCAN 180180-2is pro**

General Specifications

Tunnel dimensions	1810 (W) x 1821 (H) [mm] • 71.3" (W) x 71.7" (H)
Max. object size	1790 (W) x 1700 (H) [mm] • 70.5" (W) x 66.9" (H)
Conveyor type	small pitch roller conveyor
Conveyor height [1]	approx. 840 mm (33.1")
Conveyor speed	standard 0.24 [m/s]
max. conveyor load even	0,75 t/m (504 lbs/ft), 5000 kg evenly distributed over the whole conveyor
Resolution (wire detectability)	standard: 36 AWG (0.13 mm) • typical: 37 AWG (0.11 mm)
Penetration (steel)	standard: 70 mm • typical: 75 mm
Internal X-ray dose (typical)	approx. 14 µSv (1.4 mrem)
External X-ray dose	standard: <2µSv/h • optional: <1µSv/h
Film safety	guaranteed up to ISO 1600 (33 DIN)
Duty cycle	100 %, no warm-up procedure required

X-ray Generator

Anode voltage • cooling	300 kV cp • hermetically sealed oil bath
Beam direction view 1 / view 2	view 1: diagonal from side, view 2: diagonal from bottom to top

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

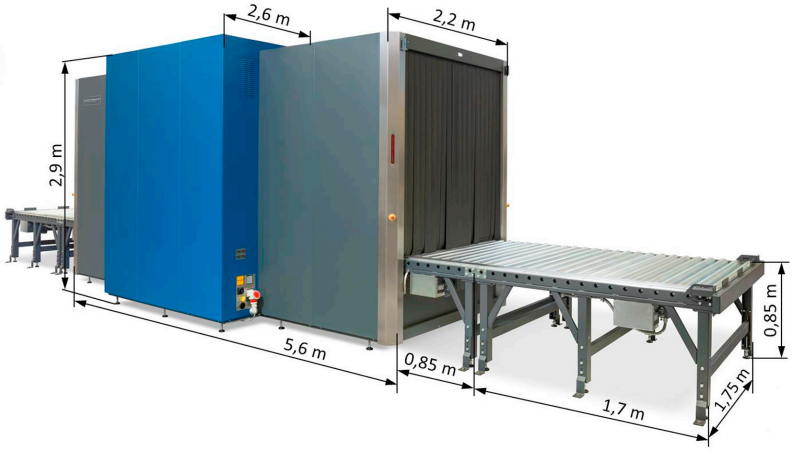
Functions	fading-in of date/time, object counter, user id-number, luggage marking system (acoustic), display of operating mode, REVIEW-feature (to recall previously visible image areas), zoom overview, free programmable keys, USB 2.0 interface, stepless zoom
Options	HI-SPOT, SEN, XPlore, IMS (Image Store System - stores up to 100,000 images), Xport, 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 2004/108/EC, 2006/42/EC, 2006/95/EC
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. 4,5 kVA (without options)
Protection class keyboard	IP 43
Dimensions • Weight [6]	approx. 7200 (L) x 2650 (W) x 2900 (H) [mm] • approx. 9000 kg approx. 280" (L) x 104" (W) x 114" (H) • approx. 19842 lbs
Mechanical construction	steel construction with steel panels, mounted on roller castors standard color(s): RAL 7016 (dark gray), B11-W1 (blue)

[1] approx. values (adjustable)

[4] extended temperature range on request
[5] optional 3-phase: 208 VAC, 220 VAC, 380V, 415 VAC, 480 VAC
[6] without control desk, keyboard, monitor(s) etc.



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