

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
- The tunnel dimensions exceed international standards (TSA 48" x 48" x 65") for max. skid size and are large enough to accept LD 3 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.

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 |

Installation Data

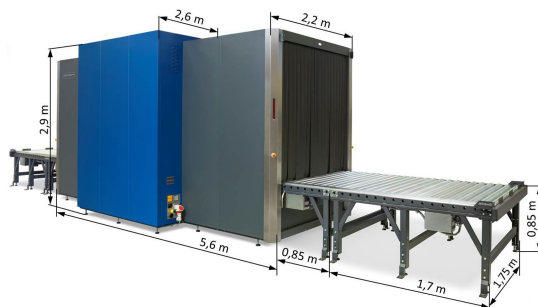
| | |
|---|---|
| X-ray leakage | meets all applicable laws and regulations with respect to X-ray emitting devices. |
| CE-labelling | in compliance with guidelines 2004/108/EC, 2006/42/EC, 2006/95/EC |
| Operating- / storage temperature ⁴⁾ | 0° - 40°C / -20°C - +60°C |
| Humidity | 10% - 90% (non-condensing) |
| 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.



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

Smiths Heimann GmbH, Im Herzen 4, 65205 Wiesbaden, Germany
Modifications reserved. 95595044 05/07/2019 © Smiths Detection Group Ltd. - In some cases, the figures contain options
HI-SCAN is a trademark of Smiths Detection Group Ltd.

smiths detection