

# HI-SCAN 180180-300kV-2is

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<sup>Plus</sup> technology for better material distinction**
- **Typical penetration 60 mm of steel**
- **Dual view concept**

The HI-SCAN 180180-300kV-2is is an advancement of the HI-SCAN 180180-300kV, especially 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.

The HI-SCAN 180180-300kV-2is is equipped with two generators thus beaming in two directions (Dual View). This particular screening mode facilitates reli-

able inspections in one process while shortening inspection times and increasing the effectiveness of the procedure.

With an installation base of more than 30,000 X-ray security units distributed throughout 150 countries in all continents and a worldwide customer service 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.

# Technical Data **HI-SCAN 180180-300kV-2is**

## 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] • 70.5" (W) x 66.9" (H)
Conveyor height <sup>1)</sup>	approx. 300 mm [11.8"]
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) <sup>3)</sup>	standard: 55 mm • typical: 60 mm
X-ray dose / inspection (typical)	standard: approx. 2 µSv (0.2 mrem) • with HI-MAT: approx. 4 µSv (0.4 mrem)
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 top to bottom

## 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 <sup>2</sup> , OS, HIGH
	electronic zoom: stepless enlargement up to 16-times
Monitor	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-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 <sup>4)</sup>	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. 3,5 kVA (without options)
Protection class keyboard	IP 43
Dimensions • Weight <sup>6)</sup>	approx. 7260 (L) x 3508 (W) x 3671 (H) [mm] • approx. 7500 kg approx. 285.8" (L) x 138.1" (W) x 144.5" (H) • approx. 16535 lbs
Mechanical construction	steel construction with steel panels, mounted on roller castors standard color(s): RAL 7016 [dark gray]

<sup>1)</sup> approx. values (adjustable)  
<sup>3)</sup> measured in beam direction

<sup>4)</sup> extended temperature range on request  
<sup>6)</sup> without control desk, keyboard, monitor(s) etc.



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