

# HI-SCAN 150150-300 kV

## 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**
- **Large range of applications**

The HI-SCAN 150150-300 is specially 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.

The HI-SCAN 150150-300 is a compact medium energy (300 kV) X-ray cargo inspection system with tunnel dimensions of 1500 mm (61") width and 1500 mm (61") height. It permits the inspection of skeleton containers, pallets, very large pieces of checked luggage, parcels and crates.

With an installation base of more than 16,000 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.

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

# Technical Data HI-SCAN 150150-300 kV

## General Specifications

Tunnel dimensions	1550 (W) x 1550 (H) [mm] • 61" (W) x 61" (H)
Max. object size	1540 (W) x 1500 (H) [mm] • 60.6" (W) x 59" (H)
Conveyor height <sup>1)</sup>	approx. 300 mm (12")
Conveyor speed (adjustable with frequency converter)	approx. 0.24 [m/s]
max. conveyor load even distributed over the whole conveyor	1200 kg (2700 lbs)
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: 1.2 µSv (0.12 mrem) • with HI-MAT: 2.4 µSv (0.24 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	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-MAT, O <sup>2</sup> , 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-SPOT, SEN, XPlore, IMS (image management system), Xport, Media Bay for RIDA (250 GB), ZIP module or CD/RW module

## Installation Data

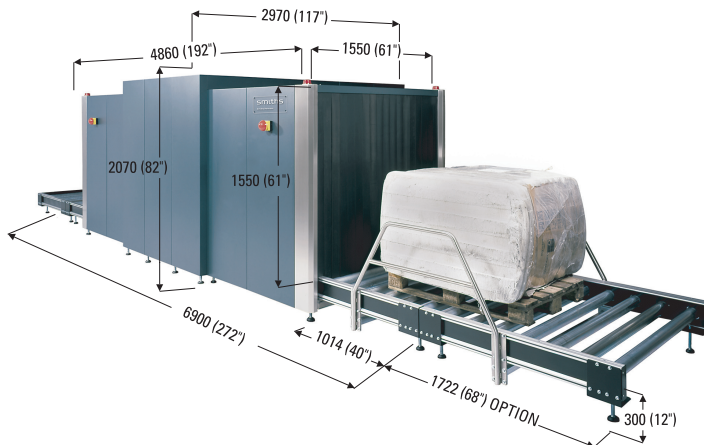
X-ray leakage	meets all applicable laws and regulations with respect to X-ray emitting devices.
CE-labelling	in compliance with guidelines 98/37/EWG, 72/23/EWG, 89/336/EWG
Operating- / storage temperature <sup>4)</sup>	0° - 40°C / -20°C - +60°C
Humidity	10% - 90% (non-condensing)
Power supply	400 VAC, 3 phases • 50 Hz / 60 Hz ± 3 Hz, others on request
Power consumption	approx. 2.5 kVA (without options)
Dimensions • Weight <sup>4)</sup>	6900 (L) x 2970 (W) x 2070 (H) [mm] • approx. 6000 kg 271.6" (L) x 116.9" (W) x 81.5" (H) • approx. 13200 lbs
Mechanical construction	steel construction with steel panels, mounted on roller castors standard color(s): RAL 7016 (dark gray) / B11-W1 (blue)

<sup>1)</sup> approx. values (adjustable)

<sup>4)</sup> extended temperature range on request

<sup>3)</sup> measured in beam direction

<sup>4)</sup> without control desk, keyboard, monitor(s) etc.



## Germany

Smiths Heimann GmbH  
Im Herzen 4  
65205 Wiesbaden  
T: +49 (0)611 9412-0  
F: +49 (0)611 9412-229  
mail.germany@smiths-heimann.com  
http://www.smiths-heimann.com

## France

Smiths Heimann S.A.S.  
36, rue Charles Heller  
94400 Vitry sur Seine  
T: +33 (0)1 55 53 55 55  
F: +33 (0)1 46 80 34 99  
mail.france@smiths-heimann.com

## UK

Smiths Detection International UK  
459 Park Avenue  
Bushey, Watford  
Herts WD23 2BW  
T: +44 (0) 1923 294400  
F: +44 (0) 1923 294401  
mail.uk@smiths-heimann.com

## USA

Smiths Detection Inc.  
30 Hook Mountain Road  
PO Box 410  
Pine Brook, NJ 07058  
T: +1 973 830-2100  
F: +1 973 830-2200  
mail.usa@smiths-heimann.com

## Canada

Smiths Detection Montréal Inc.  
950 Bergar, Laval (Quebec)  
Canada H7L 5A1  
T: +1 (450) 967-0010  
F: +1 (450) 967-7444  
mail.canada@smiths-heimann.com

## Singapore

Smiths Detection Asia Pacific Pte. Ltd.  
3 Toh Tuck Link #04-01  
German District Centre  
Singapore 596228  
T: +65 6 466-1700  
F: +65 6 469-2506  
mail.singapore@smiths-heimann.com

SecurMAR

833 Shannon Drive  
Crown Point, IN 46307  
Phone: 219-661-8964  
Fax: 219-661-8965  
sales@securmar.com

