

# HI-SCAN™ 6040i

HEIMANN X-RAY TECHNOLOGY



## Feature Highlights

- **High-End processor technology**
- **High-Speed digital signal transmission**
- **HI-MAT Plus advanced material classification**
- **High image resolution**
- **24 Bit real time image processing**
- **New ergonomic user interface**
- **Free programmable priority keys**

The HI-SCAN 6040i is a newly designed, compact X-ray inspection system with a tunnel opening of 620 mm (24") wide by 418 mm (16.5") high. This tunnel size is ideally suitable for cabin baggage and other small items in areas with increasing security demands.

The Hi-SCAN 6040i is part of the new iLane system concept, which offers various possibilities of extension due to a modular, flexible system design.

Online image analysis methods to support the operator's work, and a new man-machine interface configured according to ergonomic aspects, are pointing the way to the future for this kind of system.

Innovative technique and a high degree of reliability, make this system an excellent tool for covering sensitive fields of inspection.

The equipment offers the operating personnel optimum support in making decisions and reduces inspection times considerably.

# Technical Data HI-SCAN 6040i

## General Specifications

Tunnel dimensions	620 (W) x 418 (H) [mm] • 24.4" (W) x 16.5" (H)
Max. object size	615 (W) x 410 (H) [mm] • 24.2" (W) x 16.1" (H)
Conveyor height <sup>1)</sup>	approx. 694 mm (27.3")
Conveyor speed at mains frequency 50 Hz / 60 Hz	approx. 0.2 / 0.24 [m/s]
max. conveyor load even distributed over the whole conveyor	160 kg (352 lbs)
Resolution (wire detectability)	standard: 38 AWG (0.1 mm) • typical: 39 AWG (0.09 mm)
Penetration (steel) <sup>3)</sup>	standard: 27 mm • typical: 30 mm
X-ray dose / inspection (typical)	standard: 0.7 µSv (0.07 mrem) • with HI-MAT: 1.4 µSv (0.14 mrem)
Film safety	guaranteed up to ISO 1600 (33 DIN)
Duty cycle	100 %, no warm-up procedure required

## X-ray Generator

Anode voltage • cooling	140 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, O2, OS, HIGH, electronic zoom: stepless enlargement up to 16-times
Monitor	Flat Panel LCD Monitor

## 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	X-ACT, HI-TIP, HI-SPOT, SEN, XPlore, IMS (image management system), 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 98/37/EWG, 72/23/EWG, 89/336/EWG
Sound pressure level	< 70 dB(A)
Operating- / storage temperature <sup>4)</sup>	0° - 40°C / -20°C - +60°C
Humidity	10% - 90% (non-condensing)
Power supply <sup>5)</sup>	standard: 230 VAC or 120 VAC +10% / -15% • 50 Hz / 60 Hz ± 3 Hz
Power consumption	approx. 0.8 kVA
Protection class system / keyboard	IP 20 / IP 43
Dimensions • Weight <sup>6)</sup>	2004 (L) x 850 (W) x 1284 (H) [mm] • approx. 400 kg 78.9" (L) x 33.5" (W) x 50.6" (H) • approx. 881.9 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>2)</sup> higher conveyor load at systems with frequency converter

<sup>3)</sup> Conds.: steel step wedge, CU wires, belt speed 0.2 m/s

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

<sup>5)</sup> different values optional

<sup>6)</sup> without control desk, keyboard, monitor(s) etc.



For product information, sales or service, please go to [www.smithsdetection.com/locations](http://www.smithsdetection.com/locations)

Smiths Heimann GmbH, Im Herzen 4, 65205 Wiesbaden, Germany  
Modifications reserved. 95584657 20/02/2012 © Smiths Detection Group Ltd. - In some cases, the figures contain options  
HI-SCAN is a trademark of Smiths Detection Group Ltd.

