

# HI-SCAN™ 6040i

HEIMANN X-RAY TECHNOLOGY



## Feature Highlights

- High-End processor technology
- High-Speed digital signal transmission
- HI-MAT<sup>Plus</sup> 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.

## General Specifications

<b>Tunnel dimensions</b>	620 (W) x 418 (H) [mm] • 24.4" (W) x 16.5" (H)
<b>Max. object size</b>	615 (W) x 410 (H) [mm] • 24.2" (W) x 16.1" (H)
<b>Conveyor height</b> <sup>1)</sup>	approx. 694 mm [27.3"]
<b>Conveyor speed at mains frequency</b>	approx. 0.2 / 0.24 [m/s]
<b>50 Hz / 60 Hz</b>	
<b>max. conveyor load even distributed over the whole conveyor</b> <sup>5)</sup>	160 kg [352 lbs]
<b>Resolution (wire detectability)</b> <sup>2)</sup>	standard: 39 AWG (0.09 mm) • typical: 40 AWG (0.08 mm)
<b>Penetration (steel)</b> <sup>2)</sup>	standard: 30 mm • typical: 31 mm
<b>External dose rate</b>	≤ 2 µSv/h (0,2 mrem)
<b>Film safety</b>	Guaranteed even for high speed films up to ISO 1600 (33 DIN)
<b>Duty cycle</b>	100 %, no warm-up procedure required

## X-ray Generator

<b>Anode voltage • cooling</b>	140 kV cp • hermetically sealed oil bath
<b>Beam direction</b>	diagonal

## Image Generating System

<b>X-ray converter</b>	L-shaped detector line
<b>Grey levels stored</b>	4096
<b>Image presentation</b>	B/W, color
<b>Digital video memory</b>	1280 x 1024 / 24 bit
<b>Image evaluation functions</b>	VARI-MAT, O <sup>2</sup> , OS, HIGH, HI-SPOT, SEN, XPlore, Opti-Zoom, HDA
<b>Monitor</b>	electronic zoom: stepless enlargement up to 64-times Flat Panel LCD Monitor

## Additional Features

<b>Features</b>	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, IMS (Image Store System - stores up to 100,000 images)
<b>Options</b>	X-ACT, HI-TIP, Xport

## Installation Data

<b>X-ray leakage</b>	meets all applicable laws and regulations with respect to X-ray emitting devices
<b>CE-labelling</b>	in compliance with directives 2004/108/EC, 2006/42/EC, 2006/95/EC
<b>Sound pressure level</b>	< 70 dB(A)
<b>Operating- / storage temperature</b>	0° - 40°C / -20°C - +60°C
<b>Humidity</b>	5% - 95% (non-condensing)
<b>Power supply</b> <sup>3)</sup>	standard: 230 VAC or 110 VAC +10% / -15% • 50 Hz / 60 Hz ± 3 Hz
<b>Power consumption</b>	approx. 0.8 kVA
<b>Protection class system / keyboard</b>	IP 20 / IP 43
<b>Dimensions • Weight</b> <sup>4)</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
<b>Mechanical construction</b>	Steel construction with aluminum panels standard color(s): RAL 7016 / stainless steel

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

<sup>2)</sup> proprietary quality management test piece: steel step wedge, CU wires, belt speed 0.2 m/s

<sup>3)</sup> different values optional

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

<sup>5)</sup> measured at ambient temperature of 20°C and nominal voltage



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