elaman
GERMAN SECURITY SOLUTIONS

HI-Scan 6040i

HI-SCAN 6040i

HEIMANN X-RAY INSPECTION SYSTEM

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 ProLine 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 [1]	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) [3]	standard: 27 mm • typical: 30 mm
X-ray dose / inspection (typical)	standard: 0.7 μSv (0.07 mrem) • with HI-MAT: 1.6 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: enlargement 2-, 3-, 4-, ... 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 image areas no more visible)
	Zoom-overview, free programmable keys, USB 2.0 interface, stepless zoom
Options	HI-MAT (distinction of material groups), X-ACT, HI-TIP, 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
Sound pressure level	< 70 dB(A)
Operating- / storage temperature [4]	0° - 40°C / -20°C - +60°C
Humidity	10% - 90% (non-condensing)
Power supply [5]	standard: 230 VAC or 110 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 [6]	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)

[1] approx. values (adjustable)
[2] higher conveyor load at systems with frequency converter
[3] Conds.: steel step wedge, CU wires, belt speed 0.2 m/s
[4] extended temperature range on request
[5] different values optional
[6] without control desk, keyboard, monitor(s) etc.

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or would like to discuss a specific requirement or project, please contact us at:

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