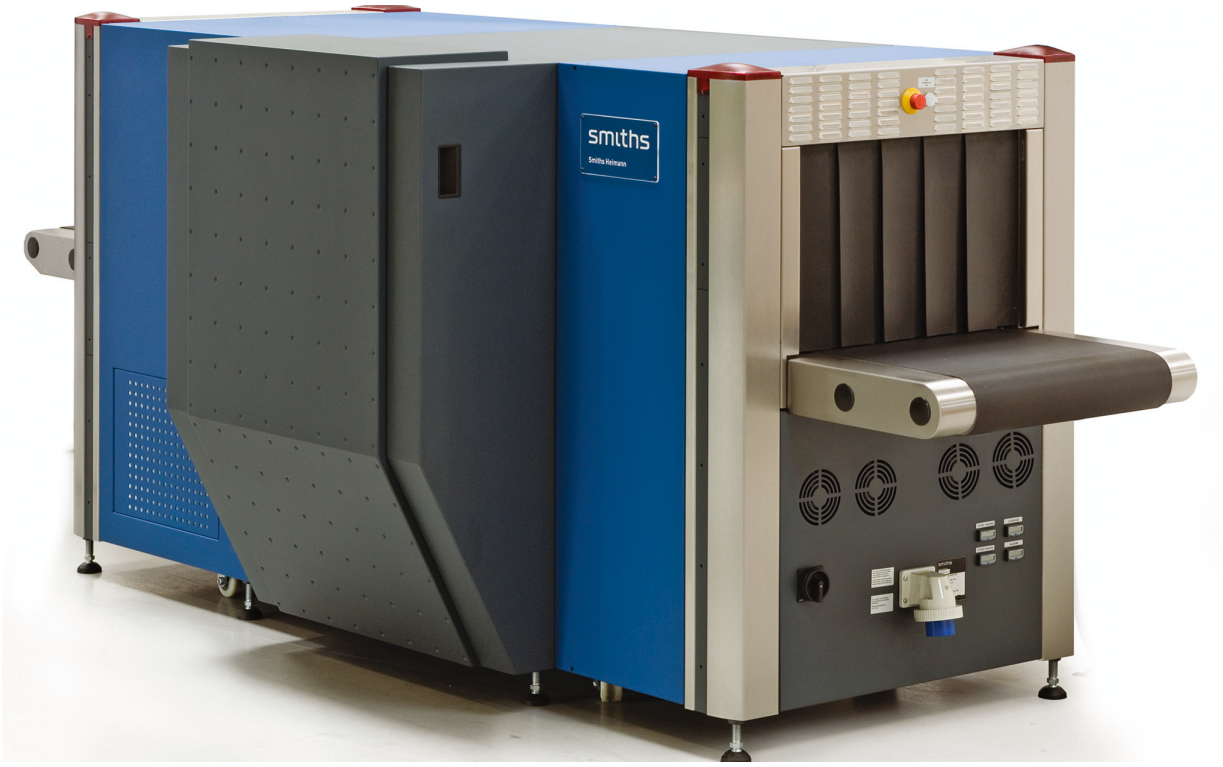
smiths detection
bringing technology to life

HI-SCAN™ 6040aTiX

HEIMANN X-RAY TECHNOLOGY



Feature Highlights

- **Automatic detection of explosives in carry-on baggage**
- **Analysis of Z_{eff} and density using independent views**
- **Maximum baggage throughput / real time evaluation**
- **Proven, ergonomic operating concept is retained**
- **Two high-resolution and detailed views (Dual View)**

HI-SCAN 6040aTiX is the first system to allow explosives detection at security checkpoints.

HI-SCAN 6040aTiX uses several, independent multi-energy generators, each of which is connected to its own sophisticated and state-of-the-art X-ray sensor technology.

While the detection performance of HI-SCAN 6040aTiX is far superior to that of other automatic systems, the rate of false alarms has been considerably reduced through the use of optimized algorithms.

Using advanced computer technologies, even complex analyses will be carried out in real-time without hampering usual checkpoint measures.
The operating concept of the proven HI-SCAN series has been retained which guarantees an optimum passenger throughput at checkpoints.

The two detailed views (Dual View) available to carry out manual analysis support the quick and reliable evaluation process.

HI-SCAN 6040aTiX - increased security by innovative technology.

Technical Data **HI-SCAN 6040aTiX**

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. 800 mm (21.5")
Conveyor speed with 50 Hz / 60 Hz mains frequency	0.2 [m/s]
Max. conveyor load even distributed over the whole conveyor	160 kg (352 lbs)
Resolution (wire detectability) [2]	standard: 40 AWG (0.08 mm Cu) • typical: 41 AWG (0.07 mm Cu)
Pentration (steel) [2]	standard: 35 mm • typical: 37 mm
X-ray dose (typical)	HI-MAT: 10 µSv (1 mrem)
Film safety	guaranteed up to ISO 1600 (33 DIN) with a maximum of 5 inspections
Operating cycle	100 %, no warm-up procedure required

X-ray Generator

X-ray generators	4
Anode voltage • cooling	160 kV cp • hermetically sealed oil bath
Beam direction	from different directions, horizontal and vertical

Image Generating System

X-ray converter	MultiView detector system with large-scale integrated, monolithic amplifier
Grey levels stored	4096
Image presentation	B/W, color, HI-MAT Plus
Digital video memory	1280 x 1024 / 24 bit
Image evaluation functions	VARI-MAT, O^2, OS, HIGH, LOW, NEG stepless, electronic Zoom: enlargement: up to 16 times
Monitor	Flat Panel LCD Monitors (2)

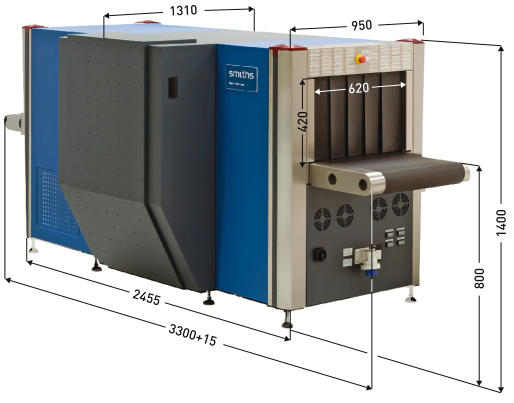
Additional Features

Functions	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-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/directives	in compliance with directives 2004/108/EC, 2006/42/EC, 2006/95/EC developed in accordance with directives IEC, UN, UL, CSA
Sound pressure	< 65 dB(A)
Operating-/storage temperature	0° - 40°C / -20°C - +60°C
Humidity	10% - 90% (not condensing)
Power supply [3]	standard: 120, 200, 230, 240 VAC +10% / -15% • 50 Hz / 60 Hz ± 3 Hz
Power consumption	max. 1.92 kVA
Protection class	IP 20 / IP 43
Dimensions • weight [4]	3300 (L) x 1310 (W) x 1400 (H) [mm] • approx. 1600 kg 129.9" (L) x 51.6" (W) x 55.1" (H) • approx. 3528 lbs
Mechanical construction	steel construction with steel panels, mounted on roller castors standard color(s): RAL 7016 (dark grey) / B11-W1 (blue)

[1] approx. values (adjustable)
[2] proprietary quality management test piece: steel step wedge, CU wires, belt speed 0.2 m/s
[3] different values optional
[4] without control desk, keyboard, monitor(s) etc.



For product information, sales or service, please go to www.smithsdetection.com/locations

Smiths Heimann GmbH, Im Herzen 4, 65205 Wiesbaden, Germany
Modifications reserved. 95589963 18/09/2012 © Smiths Detection Group Ltd. - In some cases, the figures contain options
HI-SCAN is a trademark of Smiths Detection Group Ltd.

smiths detection