smiths detection

HI-SCAN™ 6030di

Feature Highlights

- Mobile X-ray inspection system with a tunnel opening of 620 mm (24") wide by 330 mm (13") high
- Compact system design with optimized dimensions and weight
- State of the art HiTraX system technology with HI-MAT^{Plus} material classification
- High performance: Typical penetration 30 mm of steel, wire resolution up to AWG 39

HI-SCAN 6030di is a small and flexible system with a tunnel size (W x H) of 620 mm (24") by 330 mm (13") to provide optimal image quality for screening small objects such as purses, bags, pouches or packages. The compact design offers high performance regarding steel penetration and wire resolution.

Due to the state-of-the-art X-ray sensor and computer technology, **HI-SCAN 6030di** is comparable with Smiths Detection's sophisticated solutions known from airport security checkpoints. Additionally, it permits configurations with operator training, TIP and image management functionalities.

Equipped with robust heavy duty roller conveyors this X-ray inspection system can easily be moved around. Thus, it can be relocated to areas where immediate screening is requested. Besides its mobility, **HI-SCAN 6030di** is particularly suitable for areas with limited space - thanks to the optimized footprint.

The system ideally meets the requirements of critical infrastructure applications such as prisons, court houses, embassies, universities, schools, nuclear power and industrial plants as well as any other jeopardized area which needs to be protected.

General Specifications

Tunnel dimensions	620 (W) x 330 (H) [mm] • 24.4" (W) x 13" (H)
Max. object size	610 (W) x 320 (H) [mm] • 24" (W) x 12.6" (H)
Conveyor height [1]	approx. 690 mm (27.2")
Conveyor speed at mains frequency	approx. 0.2 / 0.24 [m/s]
50 Hz / 60 Hz	
max. conveyor load even distributed	100 kg (220 lbs)
over the whole conveyor [5]	
Resolution (wire detectability) [2]	standard: 38 AWG (0.1 mm) • typical: 39 AWG (0.09 mm)
Penetration (steel) [2]	standard: 27 mm • typical: 30 mm
External dose rate	≤ 2 µSv/h (0,2 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, O^2, OS, HIGH
	electronic zoom: enlargement 2-, 3-, 4-, ... 16-times
Monitor	Flat Panel LCD Monitor

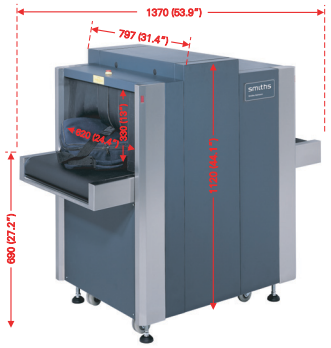
Additional Features

Features	fading-in of date/time, luggage counter, user Id-number, luggage marking system (acoustic), display of operating mode, REVIEW-feature (to recall 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), Random ReCheck

Installation Data

X-ray leakage	meets all applicable laws and regulations with respect to X-ray emitting devices.
CE-labelling	in compliance with directives 2006/42/EC, 2014/35/EU, 2014/30/EU
Sound pressure level	< 70 dB(A)
Operating- / storage temperature	0° - 40°C / -20°C - +60°C
Humidity	5% - 95% (non-condensing)
Power supply [3]	standard: 230 VAC or 110 VAC +10% / -15% • 50 Hz / 60 Hz ± 3 Hz
Power consumption	approx. 0.9 kVA
Protection class system / keyboard	IP 20 / IP 43
Dimensions • Weight [4]	1379 (L) x 797 (W) x 1120 (H) [mm] • approx. 350 kg
	54.3" (L) x 31.4" (W) x 44.1" (H) • approx. 772 lbs
Mechanical construction	steel construction with steel panels, mounted on roller castors
	standard color(s): RAL 7016 (dark gray) / Stainless steel

[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.
[5] measured at ambient temperature of 20°C and nominal voltage



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