smiths detection

HI-SCAN™ 5030C
COMPACT, DURABLE AND TRANSPORTABLE X-RAY SCANNER

Feature Highlights

- Fast start-up
- Easy-to-use
- Lightweight and transportable through doors or within small spaces
- Future proof HiTraX 3 electronics and software

Optional

- HI-TIP Plus: Threat Image Projection
- SDTS: Smiths Detection Training System
- Up to 500,000 additional image storage
- Conveyor extension for mobile version

A compact X-ray scanner, the HI-SCAN 5030C features the proven HiTraX 3 electronics and software platform to enhance and expedite security screening operations. It produces reliable and easy-to-interpret scanned images enabling screening personnel to make threat and contraband assessment of parcels to personal items quickly and confidently.

The HI-SCAN 5030C is available as a stationary desktop scanner or as a mobile version on wheels featuring vibration shock absorbers and a storage compartment. The system's lightweight design allows it to be transported through standard doorways and into confined spaces, onto vehicles for temporary screening applications or integrated into existing checkpoints without the need for costly infrastructure investments.

Other key features include a large display screen and keyboard with advanced image manipulation and review functions.

A range of optional software capabilities further functionality including extra image storage availability and analysis support.

General Specifications

Tunnel dimensions	532 (W) x 328 (H) [mm] • 20.9″ (W) x 12.9″ (H)
Max. object size	530 (W) x 320 (H) [mm] • 20.9″ (W) x 12.6″ (H) approx.
Conveyor height [1]	187 mm (7.4″) / 800 mm (31.5″) with carriage approx.
Conveyor speed at mains frequency (50 Hz / 60 Hz)	0.18 / 0.22 [m/s]
Max. conveyor load (evenly distributed) [5]	60 kg (132 lbs)
Resolution (wire detectability) [2]	Standard: 38 AWG (0.1 mm) • typical: 38 AWG (0.1 mm)
Penetration (steel) [2]	Standard: 14 mm • typical: 16 mm
External dose rate	≤ 1 µSv/h (0,1 mrem)
Film safety	Guaranteed even for high speed films up to ISO 1600 (33 DIN)
Duty cycle	100 %, no warm-up procedure required

X-ray Generator

Anode voltage • cooling	100 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	HI-MAT Plus Color Image (default)
Digital video memory	1920 x 1200 / 24 bit
Image evaluation functions	B/W, HIGH, LOW, NEG, VARI-MAT, O^2, OS
	electronic zoom: stepless enlargement up to 256-times
Monitor	Flat Panel LCD Monitor

Additional Features

Features	display of date/time, software counters for: objects, alarms, operating hours, X-ray On hours, user ID-number, luggage marking system (acoustic), display of operating mode, REVIEW-feature much more than 8 images, programmable priority keys, standard network interface, Automatic return mode, USB 3.0 interface, Printer support, IMS (Image Store System - stores up to 20,000 images), Full Reverse Mode
System Diagnostics Features	Power-on Self-Test (POST), Real-time Background Diagnosis (RBD), Real-time System Feedback (RSF)
Options	X-ACT, HI-TIP, SD Training-System, Extended Image Storage of up to 500,000 images (HDD),
Accessories	Passive In-/Output Roller conveyors, 10m external Monitor/Keyboard connection cable, Monitor Theft Protection, Mobile Heavy Duty Rollers, Various Test Bags and Cases, Foam inlay for undercarriage

Installation Data

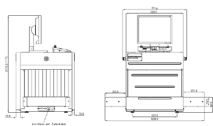|	
X-ray leakage	meets all applicable laws and regulations with respect to X-ray emitting devices
CE-labelling	in compliance with directives 2006/42/EC, 2014/35/EU, 2014/30/EU
Sound pressure level	< 50 dB(A)
Operating- / storage temperature	0° - 40°C / -20°C - +60°C
Humidity	5% - 95% (non-condensing)
Power supply [3]	100V / 120V / 230V / 240V AC (configurable); +10%/ -15% • 50 Hz / 60 Hz ± 3 Hz
Power consumption	approx. 0.4 kVA
Protection class system / keyboard	IP 20 / IP 43
Dimensions • Weight [4]	Desktop: 1200 (L) x 705 (W) x 726 (H) [mm] • approx. 188 kg
	47.3″ (L) x 27.8″ (W) x 28.6″ (H) • approx. 414 lbs
	Mobile: 1200 (L) x 705 (W) x 1339 (H) [mm] • approx. 270 kg
	47.3″ (L) x 27.8″ (W) x 52.7″ (H) • approx. 595 lbs
mechanical construction	Steel construction with aluminum panels standard
	color(s): RAL B11/W1F12 / stainless steel

[1] approx. values (adjustable)
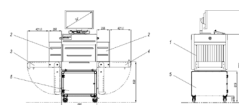[2] proprietary quality management test piece: steel step wedge, CU wires, belt speed 0.2 m/s
[3] can be configured on site by trained service technician
[4] without keyboard, monitor(s) etc.
[5] measured at ambient temperature of 20°C and nominal voltage

HI-SCAN 5030C - Table Top Version

HI-SCAN 5030C - Mobile Version

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