

HI-SCAN™ 5030C

COMPACT, DURABLE AND TRANSPORTABLE X-RAY X-RAY UNIT



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
- Additional storage for up to 500,000 images
- Conveyor extension for mobile version

The compact HI-SCAN 5030C X-ray unit produces reliable and easy-to-interpret X-ray images enabling screening personnel to make threat and contraband assessment of parcels and personal items quickly and confidently.

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.

New smart image display features such as **Organic Only Plus**, **Organic Stripping Plus** and **Organic Enhancement** give outstanding discrimination between organic and inorganic materials on screen – useful for reliable and rapid detection of threat items such as explosive devices, drugs, food or money.

Additionally, a new Optimized Background Contrast function significantly enhances the detectability of objects.

Smart system monitoring features such as Power-on Self-Test during start-up and specific diagnosis tools such as Real-time Background Diagnosis and Real-time System Feedback during operation provide instant information about the system's status and ensure easy operation. These features support the operator or technician by providing critical system diagnostics, helping to expedite maintenance and service.

The HiTraX 3 electronics and software provide a reliable platform for future upgrades to meet changing security requirements.

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	VARI-MAT, O2 ^{PLUS} , OS ^{PLUS} , HIGH, Organic Enhancement, HI-SPOT, Xplore, HDA, Opti-Zoom, Electronic zoom: continuous zooming (256x) and scaling down (2x), Optimized Background Contrast Mode
Monitor	LCD flat panel 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 for up to 50 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⁾	100 V / 120 V / 230 V / 240 V AC (configurable); +10 %/ -15 % • 50 Hz / 60 Hz ± 3
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

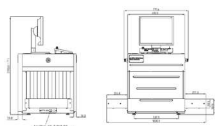
¹⁾ approx. values (adjustable)

²⁾ proprietary quality management test piece: steel step wedge, CU wires, belt speed 0.18 m/s

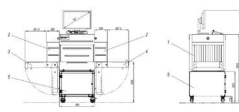
³⁾ can be configured on site by trained technical service personnel

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

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

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