

HI-SCAN™ 5180si



Feature Highlights

- New X-ray generator with optimized spectrum
- New HiTraX II system platform with extended scope of services
- High resolution image display with doubled resolution
- Up to 37 mm steel penetration
- Wire detectability up to AWG 40

HI-SCAN 5180si is a consequent advancement of HI-SCAN 5180i, with more than 6 000 installations worldwide the most successful X-ray inspection system in its class.

HI-SCAN 5180si, despite all similarities, is by far more than a conventional X-ray system with a facelift. Crucial technological innovations concerning X-ray sensor and image processing technologies were part of the R&D process.

HI-SCAN 5180si is equipped with an advanced multi-energy X-ray generator, a new generation of electronics plus a completely novel high resolution detector line.

Due to this optimized technology, the system demonstrates performance rates unachieved before.

HI-SCAN 5180si produces extremely detailed X-ray images, which impress by a more than doubled number of real, physical pixels. The drastically enhanced image resolution of the scanned objects represents a decisive advantage for image evaluations in security areas.

HI-SCAN 5180si - increased security by advanced technology.

General Specifications

Tunnel dimensions	517 (W) x 800 (H) [mm] • 20.4" (W) x 31.5" (H)
Max. object size	510 (W) x 795 (H) [mm] • 20.1" (W) x 31.3" (H)
Conveyor height ¹⁾	approx. 232 mm [9.1"]
Conveyor speed at mains frequency 50 Hz / 60 Hz	approx. 0.2 / 0.24 [m/s]
Max. conveyor load (evenly distributed) ⁵⁾	160 kg [352 lbs]
Resolution (wire detectability) ²⁾	standard: 39 AWG (0.09 mm) • typical: 40 AWG (0.08 mm)
Penetration (steel) ²⁾	standard: 35 mm • typical: 37 mm
Film safety	guaranteed up to ISO 1600 [33 DIN]
Duty cycle	100 %, no warm-up procedure required

X-ray Generator

Anode voltage • Cooling	160 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: stepless enlargement up to 64-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 previously visible image areas), zoom overview, free programmable keys, USB 2.0 interface, stepless zoom
Options	X-ACT, HI-TIP, HI-SPOT, SEN, XPlore, IMS (Image Store System - stores up to 100,000 images), 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 120 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 ⁴⁾	3090 (L) x 1452 (B) x 1195 (H) [mm] • approx. 600 kg 121.6" (L) x 57.2" (B) x 47.0" (H) • approx. 1322.8 lbs
Mechanical construction	steel construction with steel panels, mounted on roller castors standard color(s): RAL 7016 (dark grey) / B11-W1 (blue)

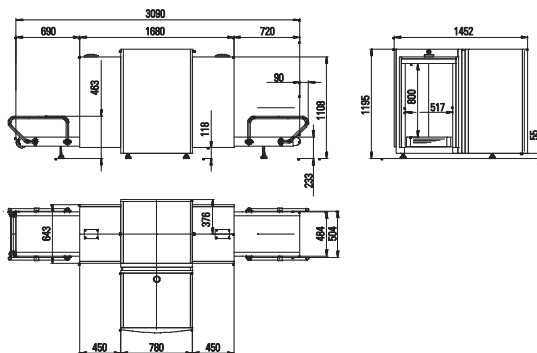
¹⁾ approx. values (adjustable)

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, monitor(s) etc.

⁵⁾ measured at ambient temperature of 20°C and nominal voltage



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

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