

HI-SCAN 100100 V

X-ray Inspection System



- ▶ **Universal X-ray system for largest variety of item dimensions**
- ▶ **Excellent image presentation due to optimal X-ray geometry**
- ▶ **Outstanding image quality with new HiTraX electronics**
- ▶ **Wire detectability AWG 38**
- ▶ **New HI MAT^{plus} technology for better material discrimination**
- ▶ **Tunnel size in optimal proportion to entire system**
- ▶ **Typical penetration 30 mm of steel**

The HI-SCAN 100100 V is specifically designed to meet the needs and applications of airports, customs facilities, transportation operations, carriers, parcel services or wherever high security and total screening of a large variety of dimensions is required.

The HI-SCAN 100100 V is a compact X-ray security screening system with tunnel dimensions of 1000 mm width by 1000 mm height. It permits the inspection of bulky as well as small items without any loss of X-ray image quality.

With an installation base of more than 14,000 X-ray security units distributed throughout 150 countries across all continents and a world-wide customer service network the Heimann Systems Group is the unequalled world leader in supplying X-ray security systems.

Operator training courses offered by Heimann Systems have an excellent reputation all over the world and they are carried out individually for each customer.

As the world's leading supplier of X-ray inspection systems Heimann Systems provides an efficient, global service network working fast and reliably.

General Specifications

Tunnel dimensions	1010 (W) x 1010 (H) [mm] • 39.7" (W) x 39.7" (H)
Max. object size	1000 (W) x 1000 (H) [mm] • 39.4" (W) x 39.4" (H)
Conveyor height ¹⁾	approx. 800 mm (31.5")
Conveyor speed (adjustable with frequency converter)	typical 0.2 [m/s]
max. conveyor load even distributed over the whole conveyor	200 kg (440 lbs)
Resolution (wire detectability)	standard: 36 AWG (0.13 mm) • typical: 38 AWG (0.1 mm)
Penetration (steel) ³⁾	standard: 27 mm • typical: 30 mm
X-ray dose / inspection (typical)	standard: 0.7 µSv (0.07 mrem) • with HI-MAT: 1.4 µSv (0.14 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 (from bottom to top)

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-MAT, O ² , OS, HIGH
Monitor	electronic zoom: enlargement 2-, 3-, 4-, ... 16-times 17"-color monitor, emission meets MPR II and TCO 99 standards other monitors on request

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
Options	HI-MAT (distinction of material groups), X-ACT, HI-TIP, HI-SPOT, SEN, XPlore, IMS (image management system)

Installation Data

X-ray leakage	meets all applicable laws and regulations with respect to X-ray emitting devices.
CE-labelling	in compliance with guidelines 98/37/EWG, 73/23/EWG, 89/336/EWG
Sound pressure level	< 70 dB(A)
Operating- / storage temperature ⁴⁾	0° - 40°C / -20°C - +60°C
Humidity	10% - 90% (non-condensing)
Power supply ⁵⁾	standard: 230 VAC or 110 VAC +10% / -15% • 50 Hz / 60 Hz ± 3 Hz
Power consumption	approx. 1.0 kVA
Protection class keyboard	IP 22
Dimensions • Weight ⁶⁾	3585 (L) x 1280 (W) x 1940 (H) [mm] • approx. 930 kg 141.1" (L) x 50.4" (W) x 76.4" (H) • approx. 2050 lbs steel construction with steel panels, mounted on roller castors standard color: RAL 7016 (dark gray)
Mechanical construction	

¹⁾ approx. values (adjustable)

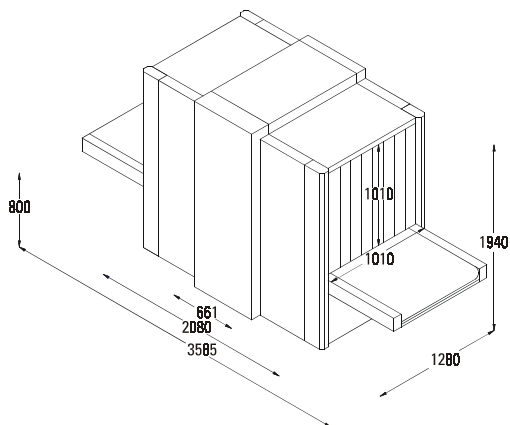
²⁾ higher conveyor load at systems with frequency converter

³⁾ according to ASTM test procedure

⁴⁾ extended temperature range on request

⁵⁾ different values optional

⁶⁾ without control desk, keyboard, monitor(s) etc.



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