

HI-SCAN 100100V

Heimann X-ray Inspection System

Feature Highlights

- 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
- HI MAT^{Plus} technology for better material discrimination
- Tunnel size in optimal proportion to entire system
- **Optional:** High resolution option for AWG 39



The **HI-SCAN 100100V** 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 100100V** 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.

For application requiring a better wire recognition, a high resolution detector line is available as an option, allowing for AWG 39.

Technical Information HI-SCAN 100100V

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. 770 mm (30.3")
- Conveyor Speed (adjustable with frequency converter) typical 0.2 [m/s]
- Max. Conveyor Load (evenly distributed) 200 kg (440 lbs)
- Resolution (wire detectability) ²⁾ standard: 36 AWG (0.13 mm Cu) • typical: 38 AWG (0.1 mm Cu) (HR option) standard: 38 AWG (0.1 mm Cu) • typical: 39 AWG (0.09 mm Cu)
- Penetration (steel) ²⁾ standard: 35 mm • typical: 37 mm
- ASTM 792-08 (Test 1, Test 3, Test 4) ⁵⁾ Test 1: AWG 32 / Test 3: 1.6 mm horz./1.3 mm vert. / Test 4: 30 mm
- X-ray Dose (typical) standard: 0.8 µSv (0.08 mrem) • with HI-MAT: 1.6 µSv (0.16 mrem)
- 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 (from bottom and 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, O², OS, HIGH, electronic zoom: stepless enlargement: up to 64-times
- Monitor Flat Panel LCD Monitor

Additional Features

- Functions 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), Xport, Media Bay for RIDA (250 GB), CD/RW module, High resolution (HR) detector line

Installation Data

- X-ray Leakage meets all applicable laws and regulations with respect to X-ray emitting devices
- CE-Labeling in compliance with directives 2004/108/EC, 2006/42/EC, 2006/95/EC
- Sound Pressure Level < 70 dB(A)
- Operating / Storage Temperature 32°F - 104°F / -4°F - 140°F (0° - 40°C / -20°C - +60°C)
- Humidity 10% - 90% (non-condensing)
- Power Supply ³⁾ standard: 230 VAC or 120 VAC + 10% / -15% • 50 Hz / 60 Hz ± 3 Hz
- Power Consumption approx. 1.0 kVA
- Protection Class System IP 20 / IP 43
- Dimensions • Weight ⁴⁾ 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.
- Mechanical Construction steel construction with steel panels, mounted on roller castors standard color: RAL 7016 (dark grey)

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⁾ max. measurable values with ASTM 792-08 test piece

