

HI-SCAN 6046si

Heimann X-ray Inspection System

Feature Highlights

- X-ray generator with optimized spectrum
- Wire detectability up to AWG 41
- Integrates with iLane Checkpoint designs
- High resolution display with doubled resolution
- HiTrax II platform with extended scope of services
- High penetration generator for steel penetration up to 37 mm
- High resolution XADA detectors for enhanced image display
- Increased tunnel opening for screening larger objects
- **Optional:** TIM upgrade for liquids detection



HI-SCAN 6046si is a consequent advancement of HI-SCAN 6040i, with more than 6000 installations worldwide, it is the most successful X-ray inspection system in its class. Despite all similarities, it 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 6046si 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 6046si produces extremely detailed X-ray images due to high resolution XADA detector modules. The considerably enhanced image resolution of the scanned objects represents a decisive advantage for image evaluation in security areas.

HI-SCAN 6046si additionally has a higher tunnel opening and therefore can scan objects that exceed standard dimensions for hand luggage in the aviation industry.

Technical Information HI-SCAN 6046si

General Specifications

- Tunnel Dimensions 620 (W) x 460 (H) [mm] • 24.4" (W) x 18.1" (H)
- Max. Object Size 615 (W) x 455 (H) [mm] • 24.2" (W) x 17.9" (H)
- Conveyor Height ¹⁾ approx. 694 mm (27.3")
- Conveyor Speed at Mains Frequency 50 Hz / 60 Hz standard: 0.2 / 0.24 [m/s]
- Max. Conveyor Load (evenly distributed) 160 kg (352 lbs)
- Resolution (wire detectability) ²⁾ standard: 40 AWG (0.08 mm) • typical: 41 AWG (0.07 mm)
- Penetration (steel) ²⁾ standard: 35 mm • typical: 37 mm
- X-ray Dose (typical) HI-MAT: 1.6 µSv (0.16 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 160 kV cp • hermetically sealed oil bath
- Beam Direction diagonal

Image Generating System

- X-ray Converter L-shaped detector line, high resolution
- 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

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. 0.8 kVA
- Protection Class System IP 20 / IP 43
- Dimensions • Weight ⁴⁾ 2004 (L) x 850 (W) x 1284 (H) [mm] • approx. 400 kg
78.9" (L) x 33.5" (W) x 50.6" (H) • approx. 881.9 lbs
- Mechanical Construction steel construction with steel panels, mounted on rollers
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, keyboard, monitor(s) etc.



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