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 ad 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   standard: 0.2 / 0.24 [m/s]
  50 Hz / 60 Hz
- 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, O^2, 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-Labelling   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.