SMITHS DETECTION

Technical Information



HI-SCAN 6046si

HEIMANN X-RAY INSPECTION SYSTEM



Feature Highlights

- New X-ray generator with optimized spectrum
- New high resolution XADA sensor technology
- 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 41
- Fully integratable in networks for system management, archiving, image distribution and TIP functionalities
- Integrated radioactivity sensor (optional)

HI-SCAN 6046si is a consequent advancement of HI-SCAN 6040i, with more than 6000 installations worldwide the most successful X-ray inspection system in its class.

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

HI-SCAN 6046si - increased security by advanced technology.

Technical Data HI-SCAN 6046si

General specifications

Tunnel dimensions Max. object size Conveyor height 1) Conveyor speed at mains frequency 50 Hz / 60 Hz Max. conveyor load (evenly distributed)

Resolution (wire detectability)

Penetration (steel) 3)

ASTM 792-01 (Test 1, Test 3, Test 4)

X-ray dose (typical) Film safety Duty cycle

620 (B) x 460 (H) [mm] • 24.4" (B) x 18.1" (H) 615 (B) x 455 (H) [mm] • 24.2" (B) x 17.9" (H) approx. 694 mm (27.3")

approx. 0.2 / 0.24 [m/s]

160 kg (352 lbs)

Standard: 40 AWG (0.08 mm) • typical: 41 AWG (0.07 mm)

Standard: 35 mm • typical: 37 mm Test 1: AWG 40 ^{2|} / Test 3: 1 mm horz./vert. ^{2|} / Test 4: 34 mm ^{2|}

HI-MAT: 1.6 µSv (0,16 mrem)

Guaranteed even for high speed films up to ISO 1600 (33 DIN)

100 %, no warm-up procedure required

X-ray generator

Anode voltage . Cooling Beam direction

160 kV cp • Hermetically sealed oil bath

diagonal

Image generating system _

L-shaped detector line, high resolution X-ray converter Grey levels stored 4096

B/W, color Image presentation 1280 x 1024 / 24 bit Digital video memory VARI-MAT, O², OS, HIGH Image evaluation functions

electronic zoom: stepless enlargement up to 16-times

17" color monitor, emission meets MPR II and TCO 99 standards

other monitors on request

Additional features

Features

Options

Monitor

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

X-ACT, HI-TIP, HI-SPOT, SEN, XPlore, IMS (image management system), Xport, Media Bay for RIDA (250 GB), ZIP module or CD/RW module

Installation data

X-ray leakage

CE-labelling Sound pressure level

Operating-/ storage temperature 4) Humidity

Power supply 5) Power consumption

Protection class system/ keyboard

Dimensions • Weight 6]

Mechanical construction

meets all applicable laws and regulations with respect to X-ray emitting devices.

in compliance with 98/37/EWG, 72/23/EWG, 89/336/EWG

< 70 dB(A)

0° - 40°C / -20°C - +60°C 10% - 90% (non-condensing)

standard: 230 VAC or 120 VAC +10% / -15% • 50 Hz / 60 Hz ± 3 Hz

approx. 0,8 kVA IP 20 / IP 43

2004 (L) x 850 (B) x 1284 (H) [mm] • approx. 400 kg 78.9" (L) x 33.5" (B) x 50.6" (H) • approx. 881.9 lbs Steel construction with steel panels, mounted on rollers

standard color(s): RAL 7016 (dark grey) / B11-W1 (blue)

1) approx. values (adjustable)

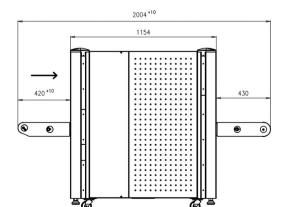
² max. commensurable values ASTM 792-01 test piece

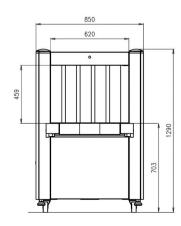
^{3]} conds.: steel step wedge, Cu wires, 0,2 m/s conveyor speed

4) extended temperature range on request

5) different values optional

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





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