

HI-SCAN™ 100100V

New: 160 kV X-ray source – typical steel penetration 37 mm



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
- HR option for AWG 39
- New HI MAT^{Plus} technology for better material discrimination

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

With an installation base of more than 70.000 X-ray security units distributed throughout 150 countries across all continents and a worldwide customer service network the Smiths Heimann is the unequalled world leader in supplying X-ray security systems.

Operator training courses offered by Smiths Heimann 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 Smiths Heimann provides an efficient, global service network working fast and reliably.

ECAC regulation (EU) 2015/1998

DGAC-STAC approved (France)

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 even distributed over the whole conveyor ⁴⁾ | 200 kg (440 lbs) |
| Resolution (wire recognition) | standard: 36 AWG (0.13 mm Cu) • typical 2): 38 AWG (0.1 mm Cu) |
| Resolution (wire recognition) (HR option) | standard: 38 AWG (0.1 mm Cu) • typical 2): 39 AWG (0.09 mm Cu) |
| Penetration (steel) ²⁾ | standard: 35 mm • typical: 37 mm |
| ASTM 792-08 (Test 1, Test 3, Test 4) | Test 1: AWG 32 ⁵⁾ / Test 3: 1.6 mm horz./1.3 mm vert. ⁵⁾ / Test 4: 30 mm ⁵⁾ |
| 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 directions | 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 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), Random ReCheck, High resolution (HR) detector line |

Installation Data

| | |
|---|---|
| X-ray leakage | meets all applicable laws and regulations with respect to X-ray emitting devices. |
| CE-labelling | in compliance with directives 2006/42/EC, 2014/35/EU, 2014/30/EU |
| Sound pressure level | < 70 dB(A) |
| Operating- / storage temperature | 0° - 40°C / -20°C - +60°C |
| Humidity | 5% - 95% (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 / keyboard | 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 gray) |

¹⁾ approx. values (adjustable)

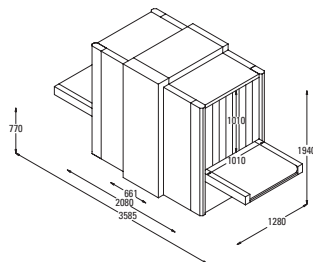
²⁾ proprietary quality management test piece: steel step wedge, CU wires, belt speed 0.2 m/s

³⁾ different values optional

⁴⁾ without control desk, keyboard, monitor(s) etc.

⁵⁾ max. measurable values with ASTM 792-08 test piece

⁶⁾ measured at ambient temperature of 20°C and nominal voltage



For product information, sales or service, please go to www.smithsdetection.com/locations

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