

# HI-SCAN™ 100100T-2is

New: 160 kV X-ray source – typical steel penetration 35 mm



## Feature Highlights

- Ideal method of inspecting oversized baggage and freight
- Dual view concept shortens inspection times
- Easy handling of heavy objects due to low conveyor belt
- Innovative user concept
- New HI MAT <sup>Plus</sup> technology for better material distinction

HI-SCAN 100100T-2is is an advancement of the HI-SCAN 100100T, especially designed for screening oversized baggage and bulky freight reaching up to 100 x 100 cm (39 x 39 in.) in size.

The HI-SCAN 100100T-2is is equipped with two generators arranged in a 90° opposition, thus beaming in two directions (Dual View). This particular screening mode facilitates reliable inspections of tightly packed objects in one process while shortening inspection times and increasing the effectiveness of the procedure.

Its new, innovative user concept makes it as easy to handle as the single-beam system. Even with a second beam direction, this new system is compact and highly space-saving.

Due to the low installation height of the HI-SCAN 100100T conveyor belt, the connection of supplementary feed- and/or discharge conveyor systems for heavy freight is simple.

The HI-SCAN 100100T -2is is especially suited to meet the needs and applications of airports, customs facilities, and parcel services.

ECAC regulation (EU) 2015/1998

DGAC-STAC approved (France)

TSA – ACSTL qualified (US)

## General Specifications

<b>Tunnel dimensions</b>	1010 (W) x 1010 (H) [mm] • 39.7" (W) x 39.7" (H)
<b>Max. object size</b>	1000 (W) x 1000 (H) [mm] • 39.4" (W) x 39.4" (H)
<b>Conveyor height</b> <sup>1)</sup>	approx. 350 mm (13.7")
<b>Conveyor speed (adjustable with frequency converter)</b>	typical 0.2 [m/s]
<b>max. conveyor load even distributed over the whole conveyor</b> <sup>5)</sup>	200 kg (440 lbs)
<b>Resolution (wire detectability)</b> <sup>2)</sup>	standard (view A): 38 AWG (0.10 mm) • typical: 39 AWG (0.09 mm) standard (view B): 36/37 AWG (0.13 mm/0.11 mm) • typical: 38 AWG (0.1 mm)
<b>Penetration (steel)</b> <sup>2)</sup>	standard (view A): 35 mm • typical (view A): 37 mm standard (view B): 31 mm • typical (view B): 35 mm
<b>X-ray dose / inspection (typical)</b>	HI-MAT: 3.4 µSv (0.34 mrem)
<b>Film safety</b>	guaranteed up to ISO 1600 (33 DIN)
<b>Duty cycle</b>	100 %, no warm-up procedure required

## X-ray Generator

<b>Anode voltage • cooling</b>	160 kV cp • hermetically sealed oil bath
<b>Beam directions view A / view B</b>	view A: diagonal from side / view B: diagonal from top to bottom

## Image Generating System

<b>X-ray converter</b>	L-shaped detector line
<b>Grey levels stored</b>	4096
<b>Image presentation</b>	B/W, color
<b>Digital video memory</b>	1280 x 1024 / 24 bit
<b>Image evaluation functions</b>	VARI-MAT, O <sup>2</sup> , OS, HIGH, REVIEW, LOW, NEG electronic zoom: stepless enlargement up to 64 times
<b>Monitor</b>	Flat Panel LCD Monitor

## Additional Features

<b>Functions</b>	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
<b>Options</b>	X-ACT, HI-TIP, HI-SPOT, SEN, XPlore, IMS (Image Store System - stores up to 100,000 images), Random ReCheck

## Installation Data

<b>X-ray leakage</b>	meets all applicable laws and regulations with respect to X-ray emitting devices.
<b>CE-labelling</b>	in compliance with directives 2006/42/EC, 2014/35/EU, 2014/30/EU
<b>Sound pressure level</b>	< 70 dB(A)
<b>Operating / storage temperature</b>	0° - 40°C / -20°C - +60°C
<b>Humidity</b>	5% - 95% (non-condensing)
<b>Power supply</b> <sup>3)</sup>	standard: 230 VAC or 120 VAC +10% / -15% • 50 Hz / 60 Hz ± 3 Hz
<b>Power consumption</b>	approx. 1.3 kVA
<b>Protection class system / keyboard</b>	IP 20 / IP 43
<b>Dimensions • Weight</b> <sup>4)</sup>	3758 (L) x 1595 (W) x 1900 (H) [mm] • ca. 1220 kg 148,0" (L) x 62,8" (W) x 74,8" (H) • ca. 2690 lbs
<b>Mechanical construction</b>	steel construction with steel panels, mounted on roller castors Standard color: RAL 7016 (dark gray)

<sup>1)</sup> approx. values (adjustable)

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

<sup>3)</sup> different values optional

<sup>4)</sup> without control desk, keyboard, monitor(s) etc.

<sup>5)</sup> measured at ambient temperature of 20°C and nominal voltage



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