

# HI-SCAN™ 7555 DV

## HIGH RESOLUTION, DUAL-VIEW X-RAY SCREENING



### Feature Highlights

- Dual-view X-ray with high-definition imaging
- Smart display functions for accurate and fast decisions
- Optional automatic weapon detection
- Easy integration into tray handling systems
- Highest level of protection against cyber threats
- Compact footprint – weight less than 1050kg/2315 lbs

HI-SCAN 7555 DV is a compact dual-view X-ray inspection system at its best. Offering superior image quality, smart display functions and easy integration into tray handling and management systems it is the ideal solution for efficient screening in high threat applications such as airports, customs, government facilities or embassies.

The ECAC approved EDS CB C1 algorithm in combination with the optional iCMORE weapons capability for the automatic detection of pistols, revolvers, gun parts, flick and fixed blade knives increases levels of security, efficiency, and automation, with no additional hardware required.

The HI-SCAN 7555 DV provides highest level of protection against cyber threats by applying industry best practices such as operating system hardening, a host-based firewall, TripWire integrity monitoring and powerful user management with highly configurable password policies.

It offers excellent steel penetration (35mm/1.38”) and superior image resolution with minimised distortion by design. Smart display functions such as Organic Only Plus, Organic Stripping Plus and Organic Enhancement support accurate and rapid discrimination between organic and inorganic substances. In addition, the new Optimised Background Contrast function makes it significantly easier to identify objects. The 120 Hz 24” monitor holds more information to expedite image evaluation and reduces motion blur. Long objects can be displayed fully using the Zoom Out feature.

The HI-SCAN 7555 DV is also compatible with the Checkpoint.Evo<sup>plus</sup> screening and management platform, allowing for actionable operational data insights and health status monitoring as well as centralised screening. The scanner features easy integration into Smiths Detection or third-party tray handling lanes, making it a perfect fit for high-throughput applications

With a relatively low weight (1050 kg/2315 lbs) and a compact footprint, the HI-SCAN 7555 DV is particularly easy to deploy in restricted spaces and will fit through doorways of 1125 mm (44.3”) for installation.

**ECAC EDS CB C1 approval  
planned**

**ACSTL planned**

## General Specifications

<b>Tunnel dimensions</b>	755 (W) x 555 (H) [mm] • 29.7" (W) x 21.9" (H)
<b>Max. object size</b>	750 (W) x 535 (H) [mm] • 29.5" (W) x 21.1" (H)
<b>Conveyor height</b> <sup>1)</sup>	approx. 800 mm (31.5")
<b>Conveyor speed with 50 Hz / 60 Hz</b>	standard: 0.2/0.24 [m/s]
<b>mains frequency</b>	
<b>Max. conveyor load even distributed over the whole conveyor</b> <sup>4)</sup>	160 kg (352 lbs)
<b>Resolution (wire detectability)</b> <sup>2)</sup>	standard: 40 AWG • typical: 41 AWG
<b>Penetration (steel)</b> <sup>2)</sup>	standard: 35 mm • typical: 37 mm
<b>External dose rate</b>	<1 µSv/h (0,1 mrem)
<b>Film safety</b>	guaranteed up to ISO 1600 (33 DIN) with a maximum of 5 inspections
<b>Operating cycle</b>	100 %, no warm-up procedure required

## X-ray Generator

<b>X-ray generators</b>	2
<b>Anode voltage • cooling</b>	160 kV cp • hermetically sealed oil bath
<b>Beam direction</b>	horizontal and vertical

## Image Generating System

<b>X-ray converter</b>	dual-view detector system with large-scale integrated, monolithic amplifier
<b>Grey levels stored</b>	4096
<b>Image presentation</b>	B/W, color, HI-MAT <sup>Plus</sup>
<b>Digital video memory</b>	1280 x 1024 / 24 bit
<b>Image evaluation functions</b>	VARI-MAT, O <sup>2</sup> PLUS, OS <sup>PLUS</sup> , HIGH, Organic Enhancement, HI-SPOT, SEN, XPlore, Opti-Zoom, HDA, stepless electronic Zoom: enlargement up to 256 times and scaling down up to 2x, Optimized Background Contrast Mode
<b>Monitor</b>	2 flat screen LCD monitors, min. 1920 x 1080 pixel

## Additional Features

<b>Functions</b>	display of date/time, software counters for: objects, alarms, operating hours, X-ray On hours, user ID-number, luggage marking system (acoustic), display of operating mode, REVIEW-feature of last 20 images, programmable priority keys, standard network interface, Automatic return mode, USB 3.0 interface, Printer support, IMS (Image Store System - stores up to 350,000 images), Full Reverse Mode, Failsafe mode
<b>System Diagnostics Features</b>	Power-on Self-Test (POST), Real-time Background Diagnosis (RBD), Real-time System Feedback (RSF)
<b>Options</b>	HI-TIP, SD Training System, Random Recheck, iCMORE Weapons
<b>Accessories</b>	Passive In-/Output Roller conveyors, mot. In-/Output conveyors, Tunnel extensions, Barcode or RFID Reader, Optical Attendance Detector, Lane/Checkpoint.Evo plus integration kits, iLOC monitor consoles, foot-mat, Various Test Bags and Cases

## Installation Data

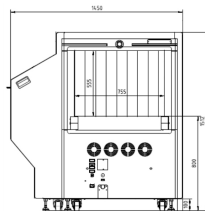
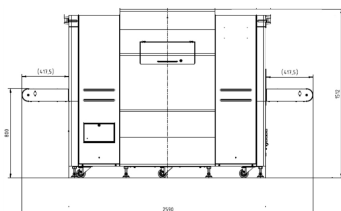
<b>X-ray leakage</b>	meets all applicable laws and regulations with respect to X-ray emitting devices
<b>CE labelling/directives</b>	in compliance with directives 2006/42/EC, 2014/35/EU, 2014/30/EU developed in accordance with standards IEC, UN, UL, CSA
<b>Sound pressure</b>	< 60 dB(A)
<b>Operating-/storage temperature</b>	0° - 40°C / -20°C - +60°C
<b>Humidity</b>	10% - 95% (not condensing)
<b>Power supply</b>	standard: 100, 120, 200, 230, 240 VAC +10% / -20% • 50 Hz - 60 Hz ± 3 Hz
<b>Power consumption</b>	max. 0.9 kVA standalone; max. 1.2 kVA with mot. Conveyors
<b>Protection class system/keyboard</b>	IP 20 / IP 43
<b>Dimensions • weight</b> <sup>3)</sup>	2590 (L) x 1450 (W) x 1512 (H) [mm] • approx. 1050 kg
<b>Mechanical construction</b>	steel construction with steel panels, mounted on roller castors standard color(s): silver matt / B11-W1 (blue)

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

<sup>4)</sup> measured at ambient temperature of 20°C and nominal voltage



For product information, sales or service, please go to [www.smithsdetection.com/locations](http://www.smithsdetection.com/locations)

Smiths Detection Germany GmbH, Im Herzen 4, 65205 Wiesbaden, Germany  
Modifications reserved. 95596981 07/02/2022 © Smiths Detection Group Ltd. - In some cases, the figures contain options  
HI-SCAN is a trademark of Smiths Detection Group Ltd.