

# HI-SCAN™ 6040 DV



## Feature Highlights

- Dual-view X-ray with high-definition imaging
- Smart display functions - accurate and fast decisions
- Optional automatic weapon detection
- Easy integration into tray handling systems
- Highest levels of cyber security
- Compact footprint – weight 820kg/1808 lbs

**ECAC LEDS Standard 2 Type C approved**

**ECAC EDS CB C1 approval  
ACSTL and STAC planned**

HI-SCAN 6040 DV is an advanced dual-view X-ray inspection system for automatic detection of explosives and liquids. The dual-view increases operational efficiency by eliminating the need to re-position or re-scan objects. 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, government facilities, embassies, or banks.

EDS CB C1 and LEDS algorithms - in combination with the optional iCMORE weapons capability for automatic detection of pistols, revolvers, gun parts, flick, and fixed blade knives - elevate security, efficiency, and automation, without requiring additional hardware. Automatic detection reduces the burden on image analysts and is particularly helpful for less experienced operators.

The HI-SCAN 6040 DV also 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.

The new Optimised Background Contrast function enables images to be viewed on a darker background rather than the legacy white, making object identification significantly easier.

HI-SCAN 6040 DV is also compatible with the Checkpoint.Evo<sup>plus</sup> screening and management platform which supports actionable operational data insights and health status monitoring plus centralised screening.

Straightforward integration into Smiths Detection or third-party tray handling lanes makes it an ideal choice for high-throughput applications.

## General Specifications

|                                                                                  |                                                                    |
|----------------------------------------------------------------------------------|--------------------------------------------------------------------|
| <b>Tunnel dimensions</b>                                                         | 620 (W) x 420 (H) [mm] • 24.4" (W) x 16.5" (H)                     |
| <b>Max. object size</b>                                                          | 615 (W) x 410 (H) [mm] • 24.2" (W) x 16.1" (H)                     |
| <b>Conveyor height</b> <sup>1)</sup>                                             | approx. 800 mm (31.4")                                             |
| <b>Conveyor speed with 50 Hz / 60 Hz</b>                                         | 0.215/0.258 [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>         | Color Image (default), HI-MAT <sup>Plus</sup>                                                                                                                                                                                |
| <b>Digital video memory</b>       | 1920 x 1200 / 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: up to 256 times and scaling down up to 2x, Optimized Background Contrast Mode |
| <b>Monitor</b>                    | 2 flat screen LCD monitors; resolution min. 1920x1080 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 up to 400.000 images), Full Reverse Mode, Failsafe Mode |
| <b>System diagnostic 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                                                                                                                                                                                                                                                                                                                                                                |

## Installation Data

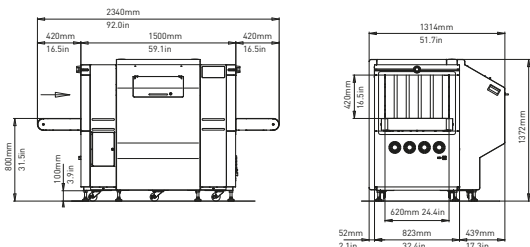
|                                          |                                                                                                                                                                          |
|------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <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, 2011/65/EU & delegated directive (EU) 2015/863 developed in accordance with standards IEC, EN, 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% / -15% • 50 Hz - 60 Hz ± 3 Hz                                                                                                 |
| <b>Power consumption</b>                 | max. 1.2 kVA                                                                                                                                                             |
| <b>Protection class system/keyboard</b>  | IP 20 / IP 43                                                                                                                                                            |
| <b>Dimensions • weight</b> <sup>3)</sup> | 2340 (L) x 1314 (W) x 1372 (H) [mm] • approx. 820 kg                                                                                                                     |
| <b>Mechanical construction</b>           | steel construction with steel panels, mounted on roller castors<br>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)

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