

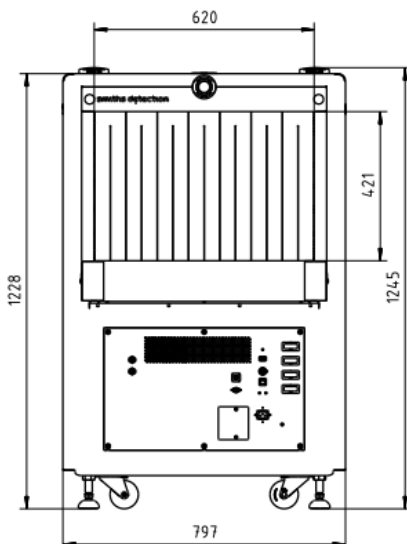
SDX 6040



Key Benefits

- Superior image quality
- 100% view of scanned item
- Accurate detection – potential threats quickly identified
- Fully mobile (80cm wide)
- Excellent cybersecurity
- New GUI supports mouse / touchscreen operation

Compliance with Commission Recommendation (EU) No. C(2022) 4179 on voluntary performance requirements for X-ray equipment used in public spaces.



Redefining Mobility, Imaging and Precision Detection

The SDX 6040 offers the best image quality on the market, ensuring unparalleled clarity in detection alongside total mobility. It meets the rigorous screening demands of critical infrastructure (e.g., power plants and transport networks), urban security (e.g., corporate/government buildings and prisons), and both public and private sectors (e.g., venues/sports arenas, cruise ships, world heritage sites).

The SDX 6040 is modular, adaptable, and simple to upgrade. Light and easy to move with a narrow (80 cm) footprint, it can be deployed where and when needed. Despite the narrow tunnel, blind spots have been eliminated, providing operators with a full, accurate picture.

Enhanced Image Quality for Rapid Threat Detection

The SDX 6040 is equipped with a 160 kV generator, which produces high-quality X-ray images, making it easier for operators to identify potential threats quickly, while minimising misinterpretations.

Smart image display features give outstanding discrimination between organic and inorganic materials on screen – useful for reliable and rapid detection of threat items such as explosive devices, drugs, food or money. Additionally, the optimised background contrast function significantly reduces eye strain.

The optional automatic target recognition capability of Smiths Detection's iCMORE Prohibited Items is expected to become available soon. It will provide the automated detection of pistols, revolvers, gun parts, flick and fixed blade knives as well as grenades, blasting caps, ammunition and blunt objects.

Smart system monitoring features such as Power-on Self-Test during start-up, specific diagnosis tools and real-time system feedback during operation provide instant information about the system's status and ensure easy operation.

The HiTraX 3 electronics and software provide a reliable platform for future upgrades to meet changing security requirements.

The SDX 6040 can easily be combined with other security technologies from Smiths Detection, including people screening and trace detection of narcotics or explosives. It is backed by Smiths Detection's extensive global service network of field service locations and engineers, ensuring optimum system performance around the clock, every day of the year.

This new solution demonstrates Smiths Detection's leadership in X-ray technology, offering the best image quality on the market. It is the result of over 40 years of experience in delivering engineering excellence, consistently meeting the highest security standards with proven product reliability.

General Specifications

Tunnel dimensions	620 (W) x 420 (H) mm 24.4 (W) x 16.5 (H) inch
Max. object size	610 (W) x 410 (H) mm 24 (W) x 16.1 (H) inch
Conveyor height	approx. 700 mm approx. 27.56 inch with standard casters
Conveyor speed at mains	approx. 0.25 m/s @50 Hz approx. 11.81 inch/s @ 60 Hz
Max conveyor load	165 kg 363 lbs
Resolution (wire detectability) <small>proprietary SD test piece; @0.25 m/s</small>	Standard: 40 AWG Typical: 41 AWG
Penetration (steel) <small>proprietary SD test piece; @0.25 m/s</small>	Standard: 35 mm Typical: 37 mm
Spatial resolution <small>proprietary SD test piece; @0.25 m/s</small>	Standard: 1.0 mm vertical; 1.0 mm horizontal Typical: 1.0 mm vertical; 1.0 mm horizontal
External dose rate	≤1 µSv/h (0.1 mrem)
Film safety	Guaranteed even for high-speed films up to ISO 1600 (33DIN)
Duty cycle	100%, no warm-up procedure required

X-Ray Generator

Anode voltage • Anode current	160 kV • 1mA
Cooling • Beam direction	Hermetically sealed oil bath • diagonal from bottom to top

Image Generating System

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

Image Visualisation System

Resolution • Colour depth	1920x1080 pixels • 24 bits
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Software

Image evaluation functions (selection)	VARI-MAT, O2 ^{PLUS} , OS ^{PLUS} , HIGH, Organic Enhancement, HI-SPOT, SEN, Xplore, Opti-Zoom, HDA
General features (selection)	Electronic zoom: stepless enlargement up to 256 times and scaling down up to 2 times; optimised background contrast mode; display of date and time; software counters for: objects, alarms, operating hours, 'X-ray On' hours and user ID-number; acoustic luggage marking system; display of operating mode; REVIEW feature of least 16 images; programmable priority keys; full reverse scanning; automatic return mode; Image Store System (IMS)
System Diagnostic Features	Power-on self-test (POST); Real-time background diagnosis (RBD); Real-time system feedback (RSF)
Options	X-ACT, Extended Image Storage of up to 500,000 images on an internal HDD, Random ReCheck

Hardware

Features	USB 3.0 interface, network interface, two interlock switches, Digital Video Interface
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Monitor and Input Devices

Optional accessories (selection)	24-inch monitor, mouse and HiTraX keyboard or 22-inch touchscreen monitor and HiTraX keyboard Keyboard holder, passive input and output roller conveyors, tunnel extensions, various test cases, larger casters for greater mobility
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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	< 60 dB(A)
Operating / storage temperature	0° - +40° / -20° - +60° Celsius • 32° - 104° / -4° - 140° Fahrenheit
Humidity	5% - 95% (non-condensing)
Power supply	220 - 240 VAC -15%/+10% • 50 Hz / 60 Hz ±3Hz 110 - 120 VAC -15%/+10% • 50 Hz / 60 Hz ±3Hz
Power consumption	Approx. 0.9 kVA
Protection class system / Keyboard	IP20 / IP43
Dimensions • Weight	1730 (L) x 797 (W) x 1245(H) mm 68.1 (L) x 31.4 (W) x 49 (H) inch • approx. 400 kg 882 lbs
Mechanical construction	Steel construction with steel panels, mounted on roller castors
Colour	RAL 7016 (dark grey) / B11/W1 F12 (blue)

For product information, sales or service, please visit www.smithsdetection.com

Smiths Detection Germany GmbH, Im Herzen 4, 65205 Wiesbaden, Germany
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