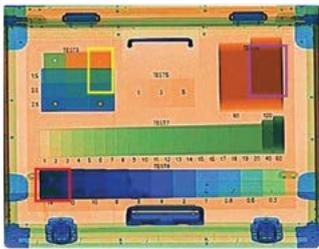# B2scan 100100D

X-ray inspection machine B2scan 100100D it is an advanced dual-energy X-ray inspection system for hand luggage, baggage and cargo. Being equipped with two X-ray generators, it provides the display of the inspected object in two projections. With tunnel dimensions of 1010 mm × 1010 mm (W × H) it is ideal for screening hand luggage, baggage and cargo at airports, railway stations, customs posts, ports, etc.

Along with unmatched ergonomics, reliability and safety, X-ray inspection machines **B2scan 100100D** provide excellent image quality and improved material classification.
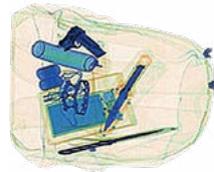
Two projections of the inspected object are displayed each on a separate monitor, so dangerous items and contraband hidden under the overlapping zone are more likely to be detected.

X-ray inspection machine **B2scan 100100D** has the function of automatic detection of explosives and drugs.

Automatic detection of explosives / drugs and alerts

Improved classification of materials: orange – organic, blue – metals, green – mixed materials
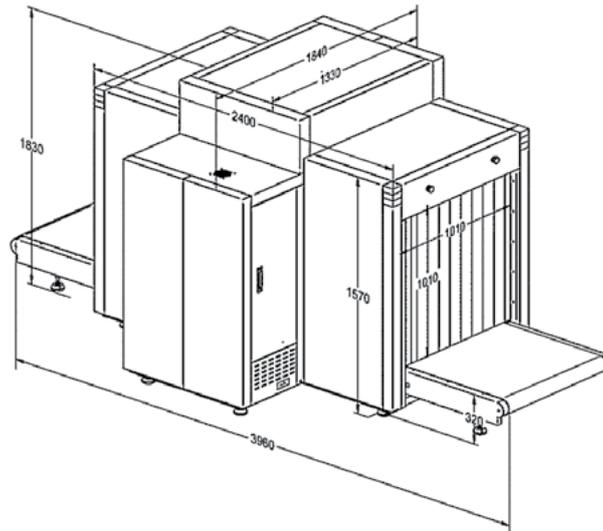
Technological features

- High image quality with 40 AWG wire resolution and 34 mm steel penetration
- The X-ray dose rate around the equipment is close to the natural background level, which corresponds to all applicable international health standards and occupational safety
- Automatic detection of explosives / drugs
- TIP (projection of the image of dangerous objects) is a very effective way to train operators and control their work
- Functional stepwise, continuous and local scaling provides convenient and quick magnification of the received image
- Received images can be saved in common formats (BMP, JPG, PNG) and transfer to an external USB drive

- The ergonomic design of the keyboard and user interface ensures effective and professional work of X-ray television system
- The modular design, combined with built-in diagnostics, ensures efficient maintenance of the equipment
- Data transmission over a local network using TCP / IP protocols
- Information exchange with the system of technical monitoring results collection and control using a unified data transfer protocol and XML-based metadata.

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Equipment drawing

General specifications		Operating characteristics	
Tunnel dimensions	1010 mm (W) × 1010 mm (H)	Wire resolution	40 AWG / 0,08 mm
Conveyor speed	0,2 m/s	Steel penetration	34 mm
Conveyor height	320 mm	X-ray dose during the inspection	less than 3,5mk3v
Maximum load capacity	200 kg with an even distribution	Monitor	Two monitors, LCD, 21.5 inches, high resolution 1920x1080
Image processing system		**Health and safety**	
Image processing functions	Color / BW image, organic / inorganic removal, change in absorption level, super-enhancement, negative image, high / low penetration, pseudocolor, etc.	X-ray dose rate	Less than 1m3v/h (5 cm from the body) meets all applicable international standards
Material classification (by color)	Organic: orange, inorganic: blue, mixtures and light metals: green	Safety for photographic films	Guaranteed for highly sensitive film up to ASA/ISO 1600 (33 DIN)
Scaling	Selectable image scaling areas, magnification 1 ~ 64 times	**Installation data**	
Image return	Viewing previous images	Dimensions / weight	3960 (L) × 1840 mm (W) × 1830 mm (H) / 1300 kg
Memory capacity	Up to 100 000 images	Storage temperature	-40 °C~+60 °C
Additional functions	Date / time display, baggage counter, transaction log, user management, X-ray television system / X-ray generator operating time counters, power-on self-test, built-in diagnostics tools, bi-directional scanning, image recognition training	Operating temperature range	0 °C~+40 °C
		Humidity	5%~95% non-condensing
		Power supplies	AC power 220V (15%~+10%) 50 Hz / 60 Hz ± 3 Hz
		Power consumption	1,5 kVA