

ESPECIALLY DESIGNED FOR QUICK,
ACCURATE AND HANDSFREE INSPECTION
OF BAGGAGE AND SMALL CARGO



X-RAY BAGGAGE INSPECTION SYSTEMS

BV 100100DV

Dual-view X-ray baggage inspection system BV 100100DV is designed for baggage, goods and small cargo inspection. Featuring identification of substances under their effective atomic number and density, using two different projections and simultaneous analyses of images from both detectors, the BV 100100DV increases the detection probability of hazardous and prohibited items dramatically performing the processing with segmentation algorithms, projection and material analyses.

BV 100100DV meets the requirements of customs facilities, airports, logistics companies or wherever security screening of heavy packages is required. It guarantees high throughput and effective screening.



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from ideas to solutions

X-RAY BAGGAGE INSPECTION SYSTEMS

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KEY FEATURES

- ▶ DUAL-VIEW TECHNOLOGY
- ▶ USER FRIENDLY INTERFACE
- ▶ AUTOMATIC IDENTIFICATION OF SUSPICIOUS OBJECTS
- ▶ MULTILANGUAGE INTERFACE
- ▶ QUICK START-UP AND SHUTDOWN
- ▶ THE FAULT-TOLERANT CONFIGURATION OF THE SYSTEM
- ▶ REAL-TIME SELF-DIAGNOSTICS

OPTIONS

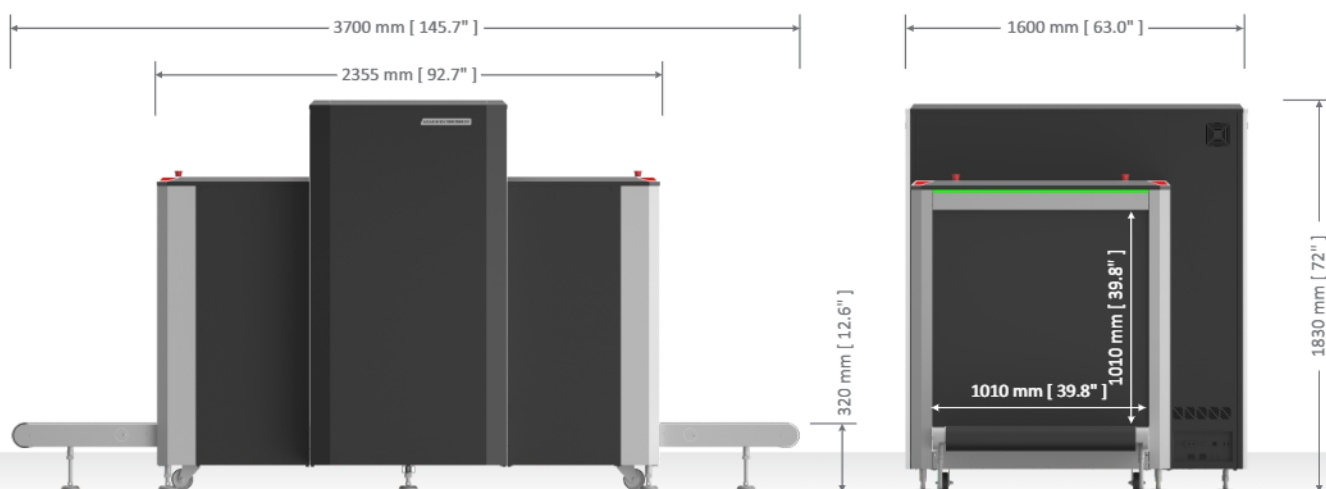
- ▶ ENTRY / EXIT ROLLERS OF VARIOUS LENGTH
- ▶ OPERATOR'S DESK
- ▶ STAND FOR MONITORS AND SPECIALIZED KEYBOARD
- ▶ SET OF TEST OBJECTS
- ▶ TOUCHSCREEN OPERATION
- ▶ RAMP
- ▶ UNINTERRUPTIBLE POWER SUPPLY

Specifications

Tunnel dimensions (WxH)	1010 x 1010 mm [39.8" x 39.8"]
Conveyor speed	0,22 ± 0,03 m/s [0.49 ± 0.06 mph]
Load on the conveyer	Max 200 kg [441 lbs]
Anode voltage	Standard 140 kV / High 160 kV
Steel penetration in high mode	GUARANTEED 34 mm [1.34"] TYPICAL 36 mm [1.42"]
Wire detectability	0,1 mm (38 AWG)
Dual-energy detector	Yes
Number of colors within the X-ray image	7 and 3
Dimensions (LxWxH)	3700 x 1600 x 1825 mm [145.7"x 63.0"x 71.9"]
Weight	1250 kg [2756 lbs]
Power Supply	230 VAC ± 10% / 120 VAC ± 5%, 50/60 Hz
Power Consumption	1,4 kVA
Operating temperature	from 0 to 40 °C [32 to 104 °F]
Humidity (at + 35 °C)	up to 98%, non condensing

List of software features available to an operator

- ▶ Automatically calibrating and normalizing the X-ray detector
- ▶ Highlighting optically dense objects
- ▶ Adjusting contrast of strongly absorbing objects
- ▶ Inverting images
- ▶ Gamma-correction of images
- ▶ Optimizing the overall contrast
- ▶ Coloring substances with atomic numbers from a selected range
- ▶ Pseudocoloring of images
- ▶ Displaying organic objects with atomic numbers equal to 7, 8, and 9
- ▶ Displaying substances according to a selected range of signal strength
- ▶ Zooming images up to 96x
- ▶ Automatically saving X-ray images in archive
- ▶ Browsing the image (JPEG format) archive
- ▶ Copying images on external storage media
- ▶ Counting inspected baggage
- ▶ Preparing service reports



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Compliant with standards for cabinet X-ray systems (USFDA, Center for Devices and Radiation Health, 21-CFR 1020.40) Typical radiation leakage is less than 0.1 mR/hr (1 μSv/hr) (Leakage less than 0.5 mR/hr permitted by the Federal Standard) Guaranteed even for high speed films up to ISO 1600 (33 DIN)



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With continual development of our products ADANI reserves the right to make changes to the design and specifications at any moment and without notice.