

SMALL AND ADVANCED X-RAY INSPECTION SYSTEM FOR QUICK AND EFFECTIVE CONTACT-FREE INSPECTION OF SMALL BAGS, BRIEFCASES AND BACKPACKS



X-RAY BAGGAGE INSPECTION SYSTEMS

BV 5030

This compact but powerful security solution can easily detect weapons (including plastic and ceramic blades), explosives (even liquid explosives), drugs, primers and any other dangerous and forbidden objects.

BV 5030 is a small system with huge security protection potential. Due to its compact and ergonomic design the X-ray machine can be easily and immediately deployed in any facility where high security control is needed.

BV 5030's innovative security screening technology in combination with specially developed software are intended to acquire, visualize and process digital X-ray images that clearly illustrate the content of the inspected bags and briefcases, thereby avoiding possibility of carrying in any dangerous or forbidden objects.

Incorporating excellent image quality, small size and high throughput capacity the BV 5030 can cover a wide range of security needs, thus becoming an ideal solution for security sensitive locations with restricted space for creation of special security infrastructure.



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ADANI
www.adanisystems.com
info@adanisystems.com



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KEY FEATURES

- ▶ COST-EFFECTIVE SOLUTION
- ▶ OPTIMAL IMAGE QUALITY
- ▶ PROVEN RELIABILITY
- ▶ AUTOMATIC IDENTIFICATION OF SUSPICIOUS OBJECTS (DRUGS, EXPLOSIVES) AND OPTICALLY DENSE OBJECTS HIGHLIGHTING
- ▶ SIMPLE INTERFACE
- ▶ REAL-TIME SELF-DIAGNOSTICS
- ▶ MULTILANGUAGE INTERFACE
- ▶ QUICK START-UP AND SHUTDOWN

OPTIONS

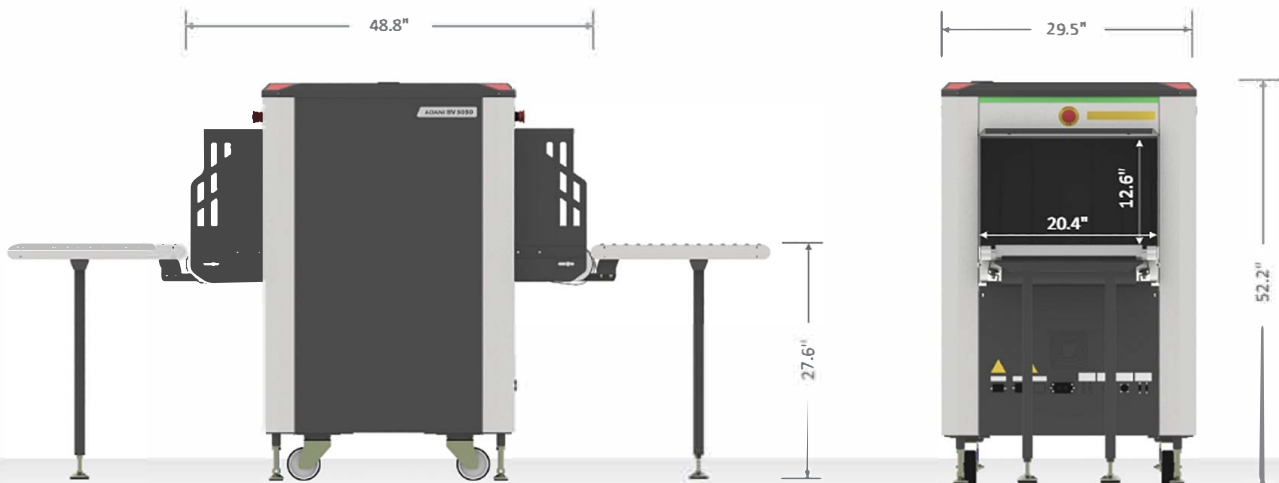
- ▶ ENTRY / EXIT ROLLERS OF VARIOUS LENGTH
- ▶ OPERATOR'S DESK
- ▶ SET OF TEST OBJECTS
- ▶ TWO MONITORS FUNCTIONALITY
- ▶ TOUCHSCREEN OPERATION
- ▶ UNINTERRUPTIBLE POWER SUPPLY

Specifications

Tunnel dimensions (WxH)	20.5" x 12.6"	
Conveyor speed	0.49 ± 0.06 mph	
Load on the conveyor	353 lbs	
Anode voltage	160 / 140 / 90 kV	
Steel penetration in high mode	GUARANTEED 1.42"	TYPICAL 1.46"
Wire detectability	40 AWG	
Dual-energy detector	Yes	
Number of colors within the X-ray image	7 and 3	
Dimensions (LxWxH)	48.8" x 29.5" x 47.2"	
Weight	794 lbs	

List of software features available to an operator

- ▶ High density objects alarm
- ▶ Outlining of dangerous objects (which could be identified as drugs, explosives or weapons)
- ▶ Highlighting of objects with calculated atomic numbers of 7, 8, and 9 intended to assist operator with threat detection
- ▶ Threat Image Projection (TIP)
- ▶ Pseudocoloring of images
- ▶ Contrast adjusting of strongly absorbing objects
- ▶ Gamma-correction of images
- ▶ Images inversion
- ▶ Optimization of the overall contrast: combination of edge enhancement and local contrast enhancement algorithms
- ▶ Zooming in (up to 96x)
- ▶ Quick system start-up (about 30 sec)
- ▶ Image scrolling



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)



Authorized Representative in EU/EC



ADANI Systems, Inc.
13631 Poplar Circle
Conroe, TX 77304
(936) 588-2064

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