ACX 6.4-MV

Automated Multi-view Checkpoint X-ray System

SECURITY DETECTION
METAL DETECTORS X-ray MACHINES

Achieve superior explosives detection and throughput with the industry's most compact multi-view checkpoint X-ray system

With the ACX 6.4-MV Automated Multi-view Checkpoint X-ray System, the company that invented multi-view technology for hold baggage screening delivers a compact, high-performance, multi-view checkpoint system ready for today's security challenges and tomorrow's regulatory requirements.

Combining the industry's most sophisticated automatic threat detection algorithms with powerful multi-view screening technology, the ACX 6.4-MV captures data from up to three views of a bag or object and provides the operator up to three high-quality images, displaying two at a time, and automated alerts that enable airports and other high-security facilities to accurately detect threats, reduce false alarms and speed checkpoint throughput.

Highly compact, the ACX 6.4-MV integrates easily into existing operations. The system can be quickly upgraded from one view to two views to three views in the field, enabling enhanced automated threat detection. With its small footprint, superior flexibility and state-of-the-art threat detection, the ACX 6.4-MV enables users to meet evolving regulatory standards, operate with maximum efficiency and protect checkpoint investments.

APPLICATIONS

- Automated explosives detection
- Weapons detection
- Contraband detection
- Asset protection

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Exceptional Detection:

Improved Accuracy with Multiple Views

Designed to meet and exceed regulatory standards, the ACX 6.4-MV employs sophisticated patented algorithms proven to detect explosives rapidly and accurately. Fine-tuned over 18 years of field experience and collaboration with regulatory agencies, these algorithms come together with powerful scanning technology to deliver the most effective automated explosives detection available today.

The ACX 6.4-MV uses dual energy X-ray technology tc measure the effective atomic number, mass, density and other physical characteristics of concealed objects. Software rapidly analyzes this information and immediately warns operators by placing a red bo around suspicious items within the detailed image on the monitor. These alerts overlay high-quality top and side view displays that maximize clarity and minimize operator fatigue. Fast zoom (up to 64x) and an array of advanced imaging features such as Transparent Color™ allow operators to see an unprecedented level of detail, even in highly cluttered images. As a result, they can recognize suspicious objects—such as IEDs, knives, guns and contraband—much more efficiently and take appropriate action.

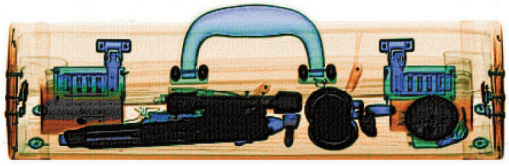
With its modular design, the ACX 6.4-MV can easily be expanded from one or two views up to three views. The three-view system interprets data from all three views to deliver enhanced explosives detection—including automated detection of liquids—enabling users to address emerging threats or regulations. When combined with L-3's commitment to advancing the state of the art in automated detection and ongoing algorithm enhancements, the ACX 6.4-MV's flexible architecture brings you a leading-edge system that grows with your needs.

Outstanding Throughput:

Faster Screening through Fewer False Alarms

With the ACX 6.4-MV, threat detection is better—and faster. The combination of highly efficient software and a fast scan rate of more than 700 scans per hour produces superior throughput without sacrificing accuracy. High-resolution images and automatic highlights of potential explosives help operators make better decisions quickly, reducing the number of repeat scans and hand inspections. A full suite of exclusive user-friendly programmable image enhancement tools further allows screeners to readily examine questionable objects.

More effective detection of explosives and other threats means fewer false alarms and streamlined operations. Checkpoint personnel can clear bags faster, which improves flow, shortens lines and results in greater convenience. As the regulatory environment evolves, the advanced capabilities of the ACX 6.4-MV will enable you to adopt more streamlined checkpoint processes, such as screening a laptop for explosives while it remains in a bag.



Presented side by side, high-quality top and side views of a screened bag enable operators to discern threats confidently. The system automatically places a red box around possible explosives to alert operators immediately.

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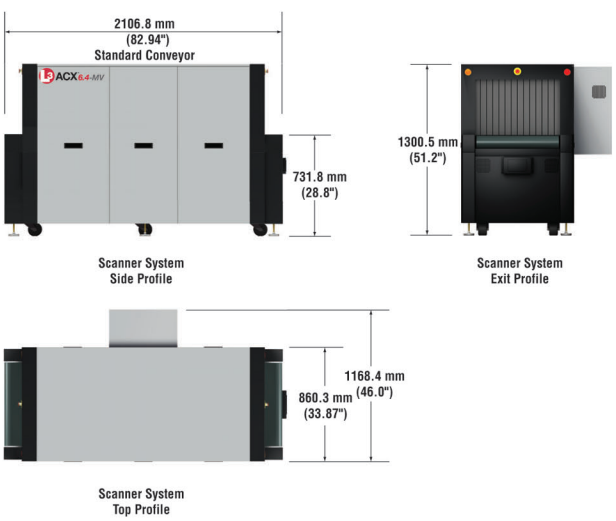
The ACX 6.4-MV's dual-monitor operator stand offers flexibility: The ergonomic stand can be easily rolled to different locations, while adjustable monitors accommodate operators of different heights and offer the option of sitting or standing.



Investment Protection:
Small, Flexible & Compatible

The ACX 6.4-MV is designed with the bottom line in mind, and can grow with your needs while delivering the lowest cost of ownership of any comparable system. Bringing together leading-edge automated explosives detection and highly configurable technology, the ACX 6.4-MV provides an ideal long-term platform for a more effective checkpoint.

- *Upgradeable in the field—in just hours.* The one-view or two-view ACX 6.4-MV can be upgraded to a three-view system for enhanced automated threat detection. With the system's modular design, upgrading hardware and software takes just hours, not days—minimizing downtime and disruption.
- *Small footprint.* With the smallest footprint of any automated, multi-view X-ray checkpoint system, the ACX 6.4-MV integrates easily into existing checkpoints without costly reconfiguration and saves space for new security checkpoints.
- *Compatible with existing equipment.* In most cases, you can reduce your costs by using the ACX 6.4-MV with existing conveyors, roller tables and bin return systems.
- *Easy to learn and use.* User-friendly displays and a touch-panel interface make the system intuitive for operators, accelerating new deployments and reducing ongoing training costs.
- *Rich networking capabilities.* Designed to U.S. Transportation Security Administration (TSA)-compliant Security Technology Integrated Program (STIP) standards, the ACX 6.4-MV supports your ongoing networking needs. Features include TCP/IP communication protocols, decentralized and remote monitoring, reporting and system management, as well as Threat Image Projection (TIP) configuration, control, database management and reporting.

Key Features

- Proven automated technology explosives detection based on MVT-HR checked baggage system
- One-, two- or three-view configuration options
- Proven hardware architecture
- Compact footprint compatible with existing checkpoint equipment
- Highly reliable system requiring minimal maintenance
- Best-in-class imaging with Transparent Color™
- Patented, heads-up operator interface with touchpad control
- Comprehensive image-enhancing tool set
- High throughput: more than 700 scans per hour
- Standard tunnel opening: 640 mm (25") W x 430 mm (17") H
- Networked Threat Image Projection (TIP)
- User-programmable image archiving for over 20,000 images
- Networked remote monitoring, reporting, system management and diagnostics

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Specifications

Tunnel Opening:	640 mm (25.2") wide x 430 mm (16.9") high
Conveyor Height:	762-812 mm (30" to 32" adjustable)
Power Requirements:	1Ø 100-240 VAC ±10% 50/60 Hz ±1% < 3.0 KVA
Conveyor Speed:	0.25 m per sec +1/-2% @ 50/60 Hz
Conveyor Capacity:	100 kg (220 lbs)

Multiple X-ray Sources

Voltage:	150 kV constant potential tube
Duty Cycle:	100%
Cooling:	Sealed oil bath
Beam Orientations:	Vertically upward or horizontal
Detector Configuration:	1152 photodiodes in L-shape or 1088 photodiodes in L-shape, depending on projection and number of views.

Physical Specifications

Height:	1300.5 mm (51.2")
Width:	862 mm (34") main system Maximum width including horizontal view 1155.7 mm (45.5")
Length:	Standard conveyor: 2106.8 mm (82.94") Medium conveyor: 2775 mm (109.25") Long conveyor: 3438.4 mm (135.37")
Weight:	Maximum weight of 1025 kg (2260 lbs) with three views and standard conveyor

Environmental

Operating Temperature:	0° to 40° C (32° to 104° F)
Storage Temperature:	-20° to 50° C (-4° to 122° F)
Humidity:	0 to 95%, non-condensing
Airborne Noise Level:	<70 dB (A)

Imaging and Performance—All views

Wire Resolution:	38 AWG guaranteed, 40 AWG typical
Penetration:	32 mm of steel
Contrast Sensitivity:	4096 gray level stored
Display Monitors:	20" flat panel
Computer Processor:	Intel Quad Core®
Throughput:	700 bags/hour (continuous mode) 400 bags/hour (stop-mode)

Radiation Safety

All L-3 Communications Security and Detection Systems' X-ray systems are certified to be in full compliance with all radiation safety requirements and external emissions limits as specified in the United States Code of Federal Regulations, Title 21, Section 1020.40 (21CFR1020.40) that apply to our products. Typical leakage radiation is less than 0.1 mR/hr.

Operational Standards

Complies with the U.S. Code of Federal Regulations:
- FAA 14 CFR 108.17 Use of X-ray Systems
- FAA 14 CFR 108.20 Use of Explosive Detection Systems
- FAA 14 CFR 129.26 Use of X-ray System
- CDRH 21 CFR 1020.40 Cabinet X-ray Systems

UL/CSA NRTL certification to UL 61010-1 and CE compliant.

Complies with CDRH (FDA) requirements, including all labeling requirements.

FCC Class A Compliant

Film Safety: Ten passes of ISO 1600/33DIN high-speed photographic film.

Conveyor Options