PX™ 6.4
Checkpoint X-ray System

Flexible, configurable X-ray security screening with best-in-class resolution and penetration.

The durable PX 6.4 checkpoint X-ray system delivers an unbeatable combination of excellent image quality, high throughput and flexibility. From passenger terminals and government buildings to high-risk corporate facilities, the versatile PX 6.4 provides a reliable and economical solution anywhere checkpoint security is a priority. Operators can efficiently and accurately screen briefcases, backpacks, parcels, packages and other small to medium-sized objects.

Superb imaging capabilities facilitate the rapid detection of multiple threats, including weapons, narcotics, explosives and other contraband. An optional high-powered X-ray solution offers the highest level of penetration and resolution. The high level of penetration allows the operator to see through denser items, easing analysis of different commodities. Higher spatial resolution provides the ability to detect difficult items such as

fine wires and electronic circuitry. The high-powered X-ray solution allows operators to clear images faster and reduce the number of goods requiring secondary searches.

The PX 6.4 can be fitted with the ScanGuard™ option that shields the system from loose particles, wet matter and liquid while screening produce, packaged meats and fish, bagged shell fish, canned goods and other perishable commodities.

The highly configurable PX 6.4 series offers three conveyor lengths to accommodate diverse space requirements, including smaller footprints. With our multi-language support* capability, operators can interact with a system that speaks their native language.

Monitor included but not shown

AIR CARGO TSA QUALIFIED

APPLICATIONS

- Threat detection
- Manifest & declaration verification
- Contraband detection
- Theft prevention
- Regulatory compliance/inspection

COMPLIANCE

- TSA Air Cargo Qualified
- ISO 9001, CE, EUR 1
- Radiation Safety: U.S. 21 CFR 1020.40
- Film: Ten passes of ISO 1600/33DIN high-speed photographic film
- Operational: U.S. FAA Standards, "Use of X-ray Systems" (Federal Standards 14 CFR 108.17 and 14 CFR 129.26)

The L-3 Advantage. Building on the foundation of L-3's industry-leading technological innovations, the PX 6.4 inspection system offers outstanding detection, performance and reliability across the spectrum of checkpoint security applications.

Image Performance:
Superb Resolution and Clarity

The advanced imaging capability of the PX 6.4 raises the standard for small-sized X-ray screening systems and delivers an array of features that give operators the information they need to clear suspicious items.

- L-3's latest X-ray source has been optimized to deliver the ultimate in penetration, image resolution and quality.

- Best Image First™ feature automatically selects and presents the optimal view, enhancing throughput by reducing repetitive image adjustments.

- L-3's TRI-MAT imaging allows operators to easily distinguish between organic and inorganic materials and objects having a similar appearance but different chemical composition.

- User-friendly image enhancement tools, including continuously adjustable contrast, sharpening and color overlay, make it easy to optimize images for maximum detection capability.
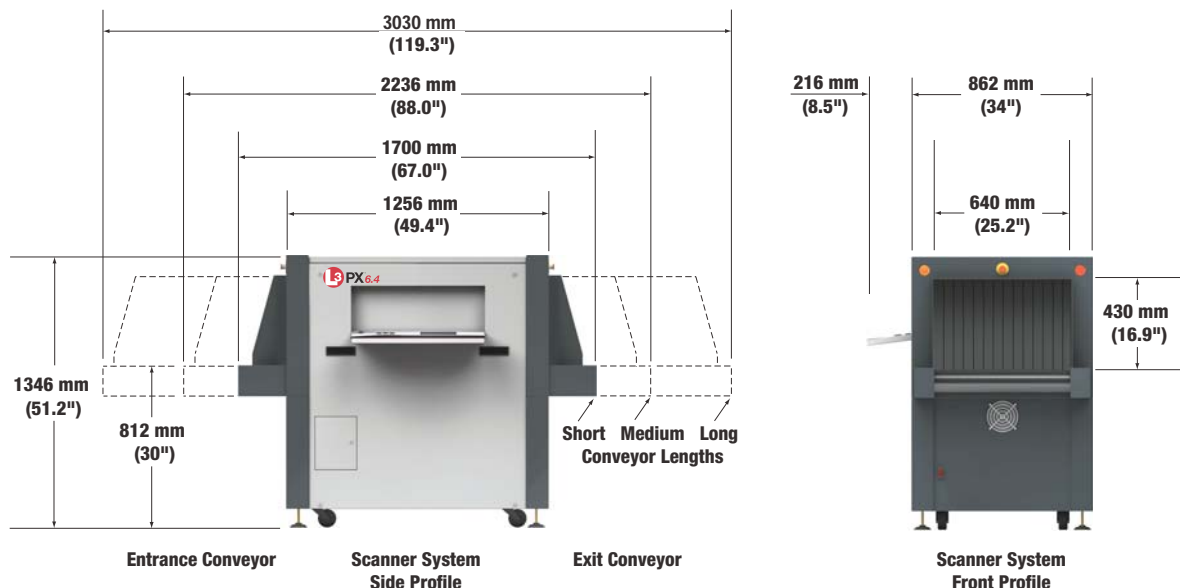
Configurable:
Operational Flexibility

The PX 6.4 can be tailored to meet a range of needs.

- Easy customization of software-based controls and tools allows the system to be adapted to diverse operational requirements and evolving security challenges.

- Bi-directional operation allows the system to be incorporated, without modification, into environments that require two-way screening, such as mailrooms and loading docks.

- Customizable user-defined Image Archiving (IA) stores over 50,000 images.

Networking:
Tying It All Together

The fully networkable PX 6.4 streamlines decentralized and remote monitoring, reporting and system management to help keep operational costs in line. Supervisors with appropriate network privileges can access and control any scanner or workstation on the LAN to send and receive bag images, TIP images, configuration settings, operator reports, diagnostics and operational metrics. This network capability, common to all L-3 second generation PX systems, has been designed to exceed current and emerging network requirements.

Entrance Conveyor   Scanner System Side Profile   Exit Conveyor

Scanner System Front Profile

Operator Interface:
Intuitively Simple

L-3's patented operator interface provides a simple, intuitive and flexible way for users to control the system and make the most of imaging information.

- User-friendly interface combines 3-button conveyor control with a touch-sensitive pad that allows continuous heads-up operation using icons displayed on the viewing screen.

- Ergonomically engineered console minimizes operator fatigue and reduces the physical stress associated with prolonged screening.

- Threat Image Projection (TIP) option inserts fictitious threat images at periodic intervals and tracks operator responses, motivating operators to stay alert and allowing supervisors to assess the effectiveness of screening operations.

- EU-approved TIP image libraries.

- Multi-language support presents user interface instructions and messages in the operator's native language.

L-3's patented operator interface (remote console option shown) combines 3-button conveyor control with a touch-sensitive pad that allows continuous heads-up operation using icons displayed on the viewing screen

Features

Imaging Features

- Best Image First™
- Transparent Color™
- Tri-material discrimination
- Organic/inorganic stripping
- Metallic item removal
- Zoom 2X – 16X or continuous zoom to 64X
- Threat alert
- True 32-bit color processing
- Customizable density & size alert
- Pseudo-color overlay
- Edge enhancement
- Reverse video
- Continuously variable contrast adjustment

Standard Features

- Compact design
- Patented heads-up operator display interface with touch pad control
- Operator Assist (OA)
- Image Archiving (IA)
- Configurable operator interface
- Multi-language support
- Bi-directional scanning
- Network ready
- 19" high-resolution LCD
- Side-mounted operator interface
- Medium conveyor
- Entry/exit tunnel shrouds
- Infrared operator-proximity sensor
- Uninterruptible power supply (UPS) and input line filter

Optional Features

- High-powered X-ray source
- Threat Image Projection (TIP)
- EU approved TIP libraries
- Roller tables and slide tables (modular 0.5 m and 1.0 m lengths)
- Conveyor length options: short and long
- LCD Steady Scroll
- Remote operator interface (30 m and 100 m)
- Network supervisor workstation
- Network TIP server
- External UPS
- Operator-proximity sensor foot mat
- Color printer
- ScanGuard™ wet kit
- Ruggedized Mobility Kit (RMK): 152.4 mm (6" locking shock-absorbent wheels, system tie-down/hold-down points)

SPECIFICATIONS:

GENERAL

Height:	1346 mm (51.2")
Width:	862 mm (34")
Length:	
Short Conveyor:	1700 mm (67")
Medium Conveyor:	2236 mm (88")
Long Conveyor:	3030 mm (119.3")
Tunnel Opening:	640 mm (25.2") W x 430 mm (16.9") H
Conveyor Height:	762 to 812 mm (30" to 32")
Power Requirements:	1Ø 100-240 VAC ±10% 50/60 Hz ±1% 1.0 KVA max
Conveyor Speed:	0.22 m per second +2/-8% @ 50 Hz 0.26 m per second +2/-8% @ 60 Hz
Conveyor Capacity:	100 kg (220 lb)
Scan Rate:	>750 bags/hour (continuous mode)
Weight:	640 kg (1411 lb) with medium conveyor
	705 kg (1551 lb) with long conveyor
	605 kg (1330 lb) with RMK option
Weight (Crated):	907 kg (1200 lb) with medium conveyor

X-RAY

Voltage:	150 kVp/160 kVp optional
Duty Cycle:	100%
Cooling:	Sealed oil bath
Beam Orientation:	Vertically upward
Detector Configuration:	1152 photodiodes in L-shaped folded array configuration

IMAGING AND PERFORMANCE*

Resolution:	41 AWG standard, 44 AWG typical
Penetration:	36 mm of steel standard, 38 mm typical
Contrast Sensitivity:	4096 gray level stored
Display Monitor:	19" high-resolution LCD

OPTIONAL HIGH-POWERED X-RAY IMAGING & PERFORMANCE*

Resolution:	42 AWG standard, 45 AWG typical
Penetration:	38 mm of steel standard, 42 mm typical

ENVIRONMENTAL

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

RADIATION SAFETY

All L-3 Communications Security & 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 (21 CFR 1020.40) 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 129.26 Use of X-ray Systems
  - CDRH 21 CFR 1020.40 Cabinet X-ray Systems
- NRTL certified to ANSI/UL 61010-1, CAN/CSA 22.2 No. 61010-1 and CE compliant.
- Complies with CDRH (FDA) requirements, including all labeling requirements.
- Film Safety: Ten passes of ISO 1600/33DIN high-speed photographic film.
- Designed for TIP1A/TIPII/STIP compliance.

Security & Detection Systems

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* With L-3 standard test piece