

# PX™ 208

X-ray System



Security & Detection Systems

## Best-in-class penetration and resolution for screening a wider spectrum of shapes and sizes

The PX-208 X-ray system meets the needs of security personnel faced with the dilemma of having to accommodate the occasional oversized object in a checkpoint or limited space environment. Its generous tunnel dimensions (over 800 mm x 600 mm) can handle baggage and large boxes that cannot be screened by smaller conventional-sized checkpoint X-ray systems.

Extremely easy to operate, the powerful PX 208 offers the highest 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 PX 208 allows operators to clear images faster and reduce the number of goods requiring secondary searches.



*Monitor included but not shown*



### 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.** Reflecting L-3's commitment to innovation and its long experience in X-ray solutions, the PX 208 offers outstanding features and options that enhance the speed and accuracy of threat detection.

**Image Performance:  
Superb Resolution and Clarity**

The advanced imaging capability of the PX 208 raises the standard for medium 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.

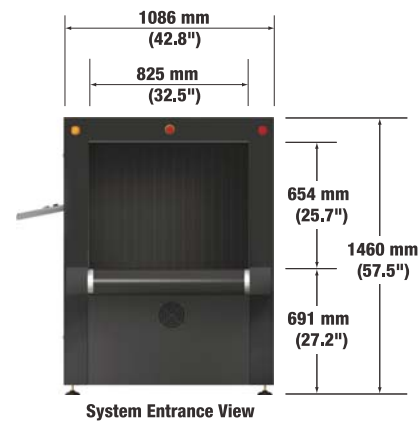
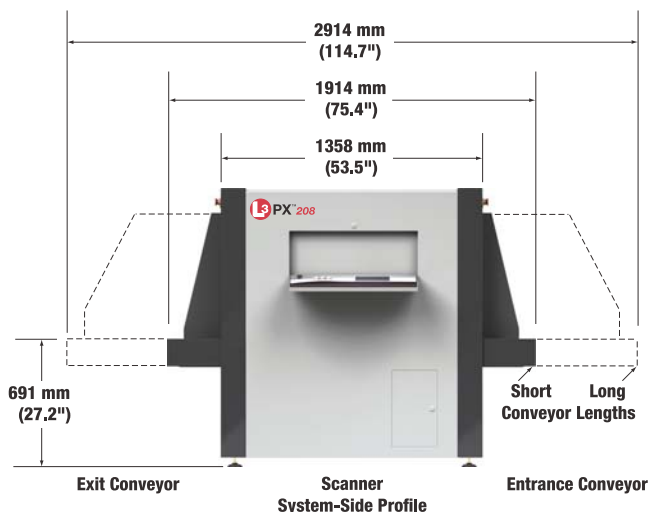
**Configurable:  
Operational Flexibility**

The PX 208 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 208 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.





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

## 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.

## 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

- High-powered X-ray source
- 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
- Remote desktop operator display
- Uninterruptible power supply (UPS) and input line filter

### Optional Features

- 0.8 m entry/exit conveyors
- 1.0 m & 2.0 m roller tables
- Increased conveyer capacity (300kg)
- Conveyor length options: short and long
- Remote operator interface (30 m and 100 m)
- LCD steady scroll
- Threat Image Projection (TIP)
- EU approved TIP libraries
- Network supervisor workstation
- Network TIP server
- External UPS
- Side-mounted operator interface
- Infrared operator-proximity sensor
- Color printer

## SPECIFICATIONS:

### GENERAL

|                     |  |
|---------------------|--|
| Height:             | 1460 mm (57.5")                              |
| Width:              | 1086 mm (42.8")                              |
| Length:             |  |
| Short Conveyor:     | 1914 mm (75.4")                              |
| Long Conveyor:      | 2914 mm (114.7")                             |
| Tunnel Opening:     | 825 mm (32.5") W x 654 mm (25.7") H          |
| Conveyor Height:    | 691 mm (27.2")                               |
| Power Requirements: | 100-240 VAC ±10% 50/60 Hz ±1%<br>1.0 KVA max |
| Conveyor Speed:     | 230mm per second (9.05" per second)          |
| Conveyor Capacity:  | 136 kg (300 lb)                              |
| Weight:             | Approx 1114 kg (2450 lb)                     |
| Weight (Crated):    | Approx 1330 kg (2925 lb)                     |

### X-RAY

|                   |  |
|-------------------|--|
| Voltage:          | 160 kVp  |
| Duty Cycle:       | 100%   |
| Cooling:          | Sealed oil bath  |
| Beam Orientation: | Vertically upward  |
| X-ray Sensor:     | 1536 photodiodes in folded array<br>L-shaped configuration |

### HIGH-POWERED X-RAY IMAGING & PERFORMANCE\*

|                       |  |
|-----------------------|--|
| Resolution:           | 41 AWG standard, 45 AWG typical        |
| Penetration:          | 42 mm of steel standard, 44 mm typical |
| Contrast Sensitivity: | 4096 gray level stored                 |
| Display Monitor:      | 19" high-resolution LCD                |

### 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 TIPII/STIP compliance.



## Security & Detection Systems

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\* With L-3 standard test piece