eXaminer 3DX®
EXPLOSIVES DETECTION SYSTEM

L3 communications
Security & Detection Systems

The next generation of eXaminer 3DX® explosives detection systems features an array of industry-leading enhancements, all of which are available as upgrades to existing systems.

Developed in partnership with the TSA, airports and airlines, eXaminer explosives detection systems accommodate the most challenging baggage inspection and handling requirements for air terminals of any size. Offering outstanding material discrimination and unsurpassed sustainable inline throughput, the TSA-certified eXaminer 3DX® sets the industry standard for accuracy and flexibility.

The eXaminer can be used as a fully integrated inline system, a partially integrated system or as a stand-alone unit. eXaminer systems can be configured as networked explosives detection systems (NEDS), linking an unlimited number of scanners, baggage viewing systems and search workstations over a secure network for the ultimate in cost efficiency.

CONFIGURATIONS

• Stand Alone
• Partially Integrated
• Fully Integrated

Innovation.
Dedication.
Leadership.

Creative solutions and lasting partnerships

From major international hubs to regional passenger terminals, airports around the globe rely on eXaminer 3DX® explosives detection systems (EDS) to enhance security and meet increasingly demanding throughput, infrastructure, and cost requirements.

Working together with domestic and international regulatory agencies, airports, and airlines, L-3 remains at the forefront of technological advancement, developing reliable security screening systems that inspect baggage for flight faster than any other manufacturer of its kind.

Explosives detection systems significantly improve detection rates, operational efficiencies, and system configurations. In addition to being the most advanced TSA-certified explosives detection system of its kind, the eXaminer's landmark technology has been certified by some of the world's most security-minded countries.

The L-3 Advantage

In collaboration with the Transportation Security Administration (TSA), airports, and airlines, L-3 creates dynamic aviation security solutions that unify innovative threat-detection technologies and intelligent, flexible system designs.

With exceptional automated processing, threat recognition, and throughput rates, L-3 inspection technologies lead the industry in detection, performance, and reliability. L-3 is a true partner in shaping the future of aviation security, developing cutting-edge solutions to increasingly complex and sophisticated threats.

Globally recognized for our commitment to incomparable customer care, L-3 leverages the strength and experience of one of the industry's largest service organizations to provide unrivaled support of our systems and products.

With more than 600 TSA-certified explosives detection systems in use around the world, L-3 is dedicated to making commercial aviation safer by providing proven systems and products tailored to meet a wide and diverse array of customer requirements.

Peerless Service and Support

From needs analysis, site survey planning, project management, and financing to installation, customization, training, compliance, and preventive maintenance, L-3 provides unsurpassed support at every step.

Our global field service team, the largest in the industry today, provides expert equipment maintenance 24 hours a day, 7 days a week, throughout the U.S. and in more than 80 countries.

Our experienced instructors understand the demands placed on operators charged with effectively inspecting thousands of bags and packages each day. Their thorough knowledge of aviation security brings invaluable real-world system operation and maintenance experience to new operators, service technicians, and staff.

eXaminer 3DX®
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Smart.
Flexible.
Networkable.

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Standard Features

The next generation eXaminer 3DX® explosives detection systems share a variety of features with earlier generation systems, including:

- Meets or exceeds TSA standard threat mass detection requirements
- 3-D imaging
- Exclusive multi-slice CT technology
- Continuous inline movement handles bags to 300lbs/136kg
- Best-in-class inline throughput
- Minimal space (<6in/10cm) between bags
- Dual threat level algorithms
- Large bag capacity
- Air conditioning
- Compact footprint
- Lighter weight
- Networkable

Superior automated processing and imaging technology meets workhorse baggage handling

The industry leader in EDS, L-3's eXaminer features revolutionary multi-slice CT imaging technology that provides full 3-D imaging to quickly and accurately scan entire bags. The system's user-friendly graphical user interface (GUI) technology and advanced image processing tools include true color imaging, edge enhancement, monochrome reverse, and high-resolution detailing. Flexible networking technology supports a mix of different eXaminer scanners and configurations on the same network.

Using L-3's patented software and hardware enhancements, existing eXaminer systems can be upgraded to match the most recent system release.

With powerful best-in-class features, the next generation eXaminer 3DX® sets a bold new standard for explosive detection systems. Existing systems can be upgraded to include the latest improvements.

- Integration, simplified. The eXaminer inline system is now available with a one-meter wide entrance tunnel, making integration with existing baggage handling systems easier than ever.

- Capable of handling more than 600 bags per hour, the next generation eXaminer consistently demonstrates the highest sustained throughput of any TSA-certified system in existence.

- Built to accept baggage up to 100 inches (2540 mm) long when used with conveyors designed to handle oversized objects, the eXaminer accepts longer bags than any other TSA-certified EDS system, accommodating oversized items such as skis and golf bags.

- The eXaminer's unique bag centering and alignment system minimizes jams. The system's automatic jam recovery feature resolves jams in less than 30 seconds.

- eXaminer's single-pass false-alarm resolution technology keeps bags moving. Alarms can be investigated and resolved while other bags are being screened–without stopping the line.

- With the smallest footprint of any inspection system of its kind, the eXaminer makes the most of precious space, minimizing installation and site preparation costs. The eXaminer operates with standard electrical power, and weighs significantly less than other high-throughput TSA-certified systems.

Inline
When fully integrated into an inline system, the eXaminer demonstrates unprecedented throughput rates. Bags move continually, eliminating the need for stop-and-hold procedures.

Partial Integration
eXaminer systems can be partially integrated with a feed-line conveyor for curbside or lobby applications. All eXaminer systems can be configured on site.

Stand Alone
As a stand-alone inspection unit, the eXaminer features powered entry and exit ramps for efficient manual bag handling. All stand-alone eXaminers can be configured to partially or fully integrated inline systems.

Precise.
Reliable.
Customizable.

Advanced technology for superior detection capability

With eXaminer's state-of-the-art software, EDS takes a bold step forward in reliability, efficiency, and operational flexibility.

- eXaminer's powerful next generation software significantly lowers false-alarm rates.
- Backwards compatibility makes it possible to bring earlier generation eXaminer systems forward to match the most recent product release.

Training new operators is easier than ever with eXaminer's new user-friendly operator control panel.

- Featuring matrix light beam technology, an optical mouse, and optional E-stop, the eXaminer's intuitive control panel makes on-the-job training and operator qualification more convenient and efficient.

eXaminer's networkable baggage viewing station (BVS) helps operators streamline the decision-making process when examining potential threats.

- The eXaminer BVS precision imaging technology enables operators to rapidly identify threat substances with confidence, and clear alarms with a minimal amount of processing.

The eXaminer's optional coherent X-ray scatter system (CXRS) automatically identifies threat substances quickly in alarmed bags, making it possible to rapidly and accurately differentiate false alarms from actual explosives.

Next generation software

Operator control panel

Networkable baggage viewing station

Automated alarm resolution option (CXRS)
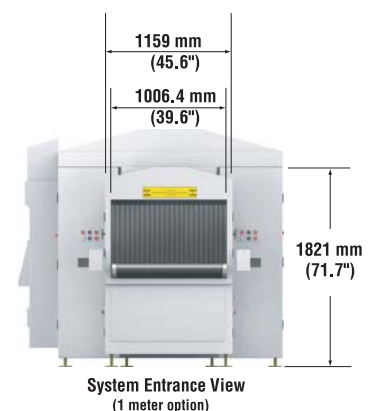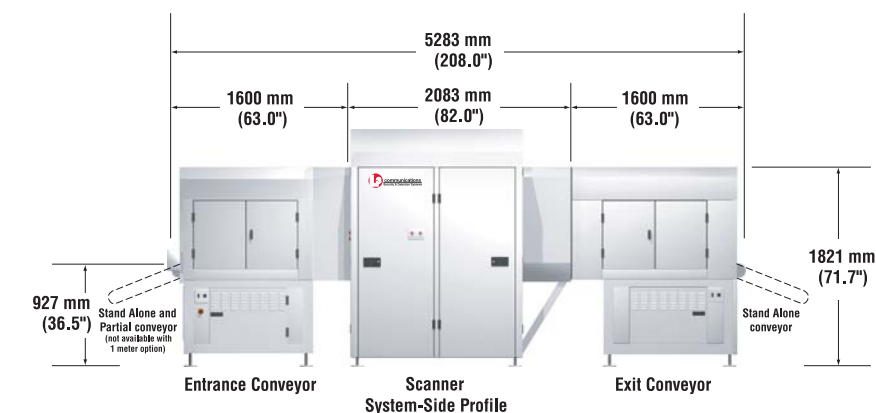
TECHNICAL SPECIFICATIONS :

GENERAL
Standard Tunnel Opening:
    800 mm (31.5") W x up to 630 mm (24.8") H
1 Meter Tunnel Opening:
    1005.4 mm (39.58") W x 600 mm (23.6") H
Conveyor Belt Height: 927 mm (36.5")
CT Scanner Dimensions:
    2083 mm (82") L x 2057 mm (81") W x 2164 mm (85.2") H
Inline 1 Meter Wide Entry Tunnel Dimensions:
    1600 mm (63") L x 1200 mm (47.24") W x 1821 mm (71.7") H
Inline Standard Entry/Exit Tunnel Dimensions:
    1600 mm (63") L x 914 mm (35.98") W x 1821 mm (71.7") H
Power Requirements:
    208± 10% VAC, 48-62 Hz, 39.5 FLA
Power Requirements International:
    380-400-415 +10% VAC, 48-62 Hz, 20 FLA
Conveyor Speed: 15 cm per sec (6 in per sec)
Conveyor Capacity: 136 kg (300 lb)
Bag Size: 800 mm W (31.50") x 2540 mm (100") L

X-RAY
X-ray Voltage: 165 kV
Duty Cycle: continuous
Cooling: oil-filled
X-ray Sensor: 6048 detectors, helical-cone-beam, multi-slice computed tomography

PHYSICAL SPECIFICATIONS
1 Meter Wide Entry Tunnel Weight: approx. 726kg (1597 lb)
CT Scanner Weight: approx. 3050 kg (6700 lb)
Inline Entry Tunnel Weight: approx. 408 kg (898 lb)
Inline Exit Tunnel Weight: approx. 408kg (898 lb)
Construction: steel frame (with optional mobility kit)

ENVIRONMENTAL: STANDARD SYSTEM
Operating Temperature: 0°C to +40°C
Storage Temperature: -20°C to +60°C
Humidity: 85% non-condensing

RADIATION SAFETY
All L-3 Communication Security and Detection Systems' X-ray systems comply with all International Standards for radiation safety requirements and external emissions limits including the United States Code of Federal Regulations, Title 21, Section 1020.40 (21 CFR1020.40) that apply to our products.

OPERATIONAL STANDARDS
Complies with published International Standards including the U.S. Federal Aviation Administration Standards, *"Use of X-ray Systems"* (Federal Standards 14 CFR 108.17 and 14 CFR 129.26).

DESIGN POLICY
L-3 Communications Security and Detection Systems reserves the right to change specifications in the course of continuous improvement. Specifications are provided for reference only and actual equipment may differ slightly from the description given. Typical dimensions are within 5% of nominal values.

L-3 Security & Detection Systems is an ISO-9001-2000 registered company for the development, manufacture and support of advanced contraband and explosives detection systems.

2057 mm (81.0")
800 mm (31.5")
2164 mm (85.2")
Stand Alone and Partial conveyor

System Entrance View (Inline and Partial)

5283 mm (208.0")
1600 mm (63.0")
2083 mm (82.0")
1600 mm (63.0")
1821 mm (71.7")
927 mm (36.5")
Stand Alone and Partial conveyor (not available with 1 meter option)
Stand Alone conveyor

Entrance Conveyor — **Scanner System-Side Profile** — **Exit Conveyor**

1159 mm (45.6")
1006.4 mm (39.6")
1821 mm (71.7")

System Entrance View (1 meter option)

L-3 Communications Security and Detection Systems

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