

SURESCAN™

Explosive Detection System

x1000

The x1000 explosive detection system uses leading edge technology to provide the highest level of security, with minimal false alarms. The in-line configuration integrates seamlessly with baggage handling systems to scan airplane hold baggage at high speeds with unprecedented accuracy.

- Atomic Number and Density Scanning
- High Speed
- Enhanced Detection
- Automatic Alarming
- Multiplexed
- In-Line EDS Screening



High Speed Processing

The data processing rack for the x1000 is located remotely from the scanning tool allowing for more efficient space management and better protection and security for the processing tower. An array of high performance upgradeable processors provides rapid image reconstruction and threat analysis.



Revolutionary Design Offers Advanced Technology and Cost-Competitive Solution

Efficient In-Line Operation

Designed for in-line use with baggage systems, the x1000 keeps bags continuously moving at conveyor speeds, reducing delays and decreasing the number of machines necessary for screening. The efficiency of x1000 also eliminates the security risk associated with collections of bags waiting to be scanned in crowded passenger areas.



Generous Tunnel Size

The generously sized rectangular tunnel opening of the x1000 is 100cm wide x 60cm high, accommodating bags of up to equal size, with a bag length of up to 157cm. Bags may be placed as close as 10cm apart while being continuously inspected at the speed of the conveyor.

High Speed Continuous Motion

Baggage remains in continuous motion along conveyor belt throughout the screening process. The higher throughput rate of up to 1,000 bags per hour reduces the need for multiple machines and allows ample room for future airport growth.

Unprecedented Safety and Accuracy

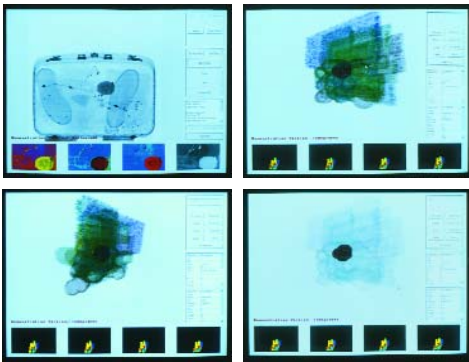
The x1000 detects bulk, sheet, liquid, and slurry explosives using proven CT technology for bag content density, combined with atomic number analysis for enhanced detection. By discriminating the atomic composition of baggage contents, the x1000 delivers the highest accuracy in threat detection, with exceptionally low false alarm rates. With reduced nuisance alarms, you can allocate personnel more effectively, maximizing your security resources. Through the use of multiple energy analysis and multiple energy sources, the x1000 is able to detect very thin sections and subtle differences in atomic number. The x1000 also provides full volumetric reconstruction and analysis. The result of this advanced technology is an exceptional ability to detect and discriminate a wide variety of threat materials, providing enhanced overall security.

Networked for Greater Flexibility

The multiplexing capability of the x1000 gives you the flexibility to monitor multiple machines and resolve threats from a single workstation or group of workstations located remotely from the scanning tool. This flexibility gives you an advantage in the assignment of personnel and use of floor space.

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Automatic Alarming

Threat materials detected by the x1000 will be automatically alarmed by the system and presented to operators in real-time via a 3-D display at their workstation. The suspect materials are color coded for identification purposes. Signals are sent to the baggage handling system for threat bag routing and users can select to utilize on-screen threat resolution with 2-D radiographic, as well as 3-D reconstruction and individual slice images, at the operator workstation. Multiview high-resolution 3-D displays give operators the ability to manipulate the image (full volume 3-D and/or individual slices) to further inspect the suspect material. Data from the images can be stored for future use in training and investigations.

Trouble-free Maintenance

Designed to keep maintenance to a minimum and costs low, the only moving part on the x1000 is the conveyor belt. The system is designed for easy access, maintainability, and high reliability. For exceptionally demanding applications, options such as air conditioning systems can be integrated.

Designed for the Future

Threats and explosive materials are not a constant. New threats and materials are always a concern. By utilizing a networked remote processing rack, combined with multiplexing for operator workstations and extensive integration of commercial off-the-shelf technology, the x1000 is designed for future upgrades. When security needs change, you can make software and hardware upgrades to the x1000 while also extending the overall useful life cycle.

Cost Effective Security You Can Trust

The x1000 was designed using leading edge technology to provide accurate, efficient, high-speed security protection, while helping airports manage the cost of security.

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Specifications

General/Physical

- Tunnel opening: 3.2 ft (w) x 2 ft (h) (100 cm x 60 cm)
- Weight (uncrated): 13,400 pounds (6,078 kg)
- Length (with conveyer): 190.6 inches (4.84 meters)
- Width: 87 inches (2.21 meters)
- Height: 90 inches (229 cm)
- Conveyer speed: up to 45 feet (13.7 m) per minute

Power Specification

- 208/240 VAC, 3-phase or 380/440 VAC, 3-phase
- Maximum power rating of 10 kVA (nominal)

Power (X-ray)

- Single-level, stable high-voltage supply--stationary high-voltage distribution system insures reliability
- Operates at 160 kV

Detector Data

- Photon counting, multi-spectral detector imaging system using a monolithic chip.

Environmental

- Operating temperature: 0 C to 40 C
- Storage temperature: -20 C to 60 C
- Humidity: 85% non-condensing

System Operational Options

- Fully integrated
- Partially integrated or stand alone
- Multiplexed
- Extended service package

Technology

- Advanced technology effective atomic number analysis combined with computed tomography density and image generation

Display

- Manipulatable color 3-D volumetric image
- Individual color slice images
- 2-D Radiograph

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