



Reveal CT-800MS

Explosives Detection System

Economical, large-scale explosives detection and 3-D imaging for integrated screening operations

The Reveal CT-800MS explosives detection system combines proprietary dual-energy computed tomography (CT) with cutting-edge detection algorithms to detect a wide range of threats while keeping false alarm rates low. The system's large tunnel handles even oversized bags, and its powerful interfaces allow seamless integration with airport baggage handling systems.

The CT-800MS is flexible and cost-effective. The system's 660 bags-per-hour throughput meets most airports' needs, and an optional field upgrade can increase this rate to 1,000 bags per hour to keep pace with airport growth.

The Reveal CT-800MS—ideal for airport customers that demand powerful, economical, CT-based detection and high throughput in fully integrated baggage handling applications.

BENEFITS

- ▶ Automatic dual-energy, CT-based explosives detection
- ▶ High-resolution 3-D imaging of every bag
- ▶ High throughput
- ▶ Oversize bag screening
- ▶ Flexible integration
- ▶ Designed to the world's most demanding security standards

AUTOMATED DETECTION

The CT-800MS features proven, dual-energy CT technology and cutting-edge detection algorithms to automatically screen bags for a wide range of threats. The system measures both density and atomic number (Z_{eff}) to provide significantly enhanced detection with a very low false alarm rate, allowing more bags to be cleared without the need for secondary inspection.

POWERFUL THREAT RESOLUTION

The CT-800MS provides same-pass, high-resolution CT and 3-D X-ray imaging of each bag's contents to help operators resolve alarms quickly. The system's threat resolution interface offers two views of each bag:

- ▶ **CT window.** The CT window shows an individual 2-D slice of the bag. Colors correspond to the atomic numbers found in typical explosives, helping operators evaluate threats.
- ▶ **3-D X-ray window.** Operators can rotate each bag image in any direction in the X-ray window, enabling bags to be scrutinized from many different angles and views.

The system's threat resolution tools are U.S. Transportation Security Administration-compliant and help operators quickly and accurately communicate threat information, streamlining the end-to-end security process.

SEAMLESS INTEGRATION

The CT-800MS features a built-in airport baggage handling system interface, plus an available field data reporting system, to help seamlessly integrate the system with Transportation Security Administration or third-party baggage control systems and existing airport baggage scanning infrastructure. The optional master control station allows oversight and configuration of all CT-800MS EDS scanners and viewing stations on an integrated network.

Throughput	660 bags per hour
Max. bag size	250 cm L x 100 cm W x 60 cm H (98 in L x 39 in W x 24 in H)
Safety	Conforms to applicable U.S. and international radiation safety regulations

CAPABILITIES

- ▶ Dual-energy CT and 3-D imaging of every bag in a single pass
- ▶ Low false alarm rate
- ▶ Throughput of 660 bags per hour
- ▶ Large tunnel accepts even oversized bags
- ▶ Built-in baggage handling system interface
- ▶ Primary/secondary viewing stations with threat resolution software

OPTIONS

- ▶ Master control station
- ▶ Fully integrated field data reporting system
- ▶ Barcode reader
- ▶ International compliance kit