



# Reveal CT-120

## Explosives Detection System

### Ultrahigh-throughput explosives detection and 3-D imaging for integrated screening operations

The ultrahigh-throughput Reveal CT-120 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 can be easily integrated with 1-meter (3.3-feet) wide belt systems to accommodate even oversized bags.

Designed specifically for high-speed, integrated screening operations, the CT-120's powerful, built-in interfaces and optional tools allow seamless integration with the baggage handling systems of the world's busiest airports.

The Reveal CT-120 — ideal for airport customers that demand powerful CT-based detection and ultrahigh throughput in fully integrated baggage handling applications.

### BENEFITS

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

## AUTOMATED DETECTION

The CT-120 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 ( $Z_{\text{eff}}$ ) 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-120 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-120 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-120 EDS scanners and viewing stations on an integrated network.

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Throughput	1,000 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

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## CAPABILITIES

- ▶ Dual-energy CT and 3-D imaging of every bag in a single pass
- ▶ Low false alarm rate
- ▶ Throughput of 1,000 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