Reveal CT-80DR+

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Explosives Detection System

The Reveal CT-80DR+ is a compact and lightweight explosives detection system. With 850+ units deployed worldwide, it is ideal for airport, ports, freight scanning operations, and other facilities that require affordable, enhanced security detection services. Our proprietary dual-energy computed tomography (CT) architecture delivers advanced detection with low false alarm rates. We designed the DR+ for both networked and stand-alone screening, enabling easy integration into existing airport scanning operations.

The DR+ is available in three sizes to accommodate a variety of scanned items:

- ➢ Short – to scan standard-size bags
- ➢ Long – to scan longer items, such as golf club
- ➢ Extra-long – to accommodate unusually long items, such as skis

Features & Benefits

- Increased accuracy through automatic dual-energy CT-based explosives detection
- State-of-the-art high-resolution imaging to easily identify threats
- Low false alarm rates
- Secure network that enables remote screening of suspicious bag images
- Compact footprint and lightweight size
- Large tunnel size that accommodates a variety of checked bags
- Proven technology certified by the Transportation Security Administration (TSA) and other security organizations

Automated Detection

The dual-energy CT technology automatically screens bags for a wide range of explosive threats. The DR+ measures both density and the atomic number of materials typically found in explosives, such as organic, inorganic, and metallic, to significantly enhance detection accuracy. This means that more bags can be cleared on the first pass, without the need for secondary inspection, increasing throughput and saving both time and operator resources.

Threat Resolution

The DR+ provides high-resolution imaging of bag contents to help operators quickly resolve alarms. In the CT viewing station, colors correspond to atomic numbers for materials, helping operators clearly evaluate threats. Bags found to have suspected threats can be further evaluated using the X-ray window, where different materials are discriminated by these colors. The DR+ also includes a golf-bag detection algorithm that greatly reduces false alarms due to the materials typically used in golf clubs, without compromising detection performance. Airport operators can easily switch between these algorithms in just seconds.

Available in Three Size

Short – to scan standard size bags, | **Long** – to scan longer items, such as golf clubs, | **Extra-long** – to accommodate unusually long items, such as skis.

Flexible Operation

The compact DR+ system can be installed in airport environments where space is limited, without the need for significant infrastructural changes. Optional powered conveyors assist with integration into an airport's existing baggage handling infrastructure or stand-alone environments. The DR+'s optional multiplex control console and integrated field data reporting system monitors the performance of all DR+ scanners and viewing stations on a network. It also enables operators to change configuration settings on individual machines.

Optional Accessories

- Multiplex control console (network systems),
- Flat or sloped in feed conveyors,
- Long or extra-long options for oversized bags,
- External air conditioner for operating temperatures above 40 degrees (C),
- Secondary viewing station,

Technical Specifications

Throughput	226 bags per hour for the **standard system**
	187 bags per hour for the **long option**
	130 bags per hour for the **extra-long option**
Bag size	**Standard**: 120 cm (47.2 in) L x 63.5 cm (25 in) W x 63 cm (24.8 in) H
	Long: 160 cm (63 in) L x 63.5 cm (25 in) W x 63 cm (24.8 in) H
	Extra-long: 250 cm (98.4 in) L x 63.5 cm (25 in) W x 63 cm (24.8 in) H
Safety	Conforms to applicable US and international radiation safety regulations