Reveal CT-80DR+
Explosives Detection System

Compact, automated detection of explosives in checked bags, air freight, and parcels

The compact, lightweight Reveal CT-80DR+ explosives detection system features our proprietary dual-energy computed tomography (CT) architecture, delivering enhanced detection and false alarm rate performance at an economical price.

Designed for both networked and stand-alone screening operations, the system's small size, light weight, and optional accessories — including multiplexed screening, fully integrated data collection systems, and powered conveyors — help easily integrate the CT-80DR+ with existing airport baggage scanning operations.

The Reveal CT-80DR+ — ideal for airport, port, facility protection, and freight scanning operations requiring enhanced detection at an affordable price.

BENEFITS

▶ Automatic dual-energy CT-based explosives detection

▶ State-of-the-art high-resolution imaging

▶ Certified by the world's most demanding security organizations

leidos

AUTOMATED DETECTION

Reveal's proven dual-energy CT technology automatically screens bags for a wide range of threats. The CT-80DR+ measures both density and atomic number to significantly enhance detection probability with a very low false alarm rate — which allows more bags to be cleared without the need for secondary inspection.

THREAT RESOLUTION

The CT-80DR+ provides high-resolution imaging of bag contents to help operators resolve alarms quickly. In the CT window, colors correspond to the atomic numbers found in typical explosives, helping operators evaluate threats. Bags with suspected threats can be further evaluated using the X-ray window, where different materials (organic, metallic, possible metallic) are discriminated by different colors. The CT-80DR+ 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. Users can easily switch between these algorithms in just seconds.

FLEXIBLE OPERATION

The compact Reveal CT-80DR+ system can be installed in cramped airport environments without requiring significant infrastructural changes. Optional powered conveyors assist integration with an airport's existing baggage handling infrastructure or support operation in stand-alone environments. Reveal's optional multiplex control console and integrated field data reporting system monitor the performance of all Reveal scanners and viewing stations on a network and allow operators to change configuration settings on individual machines.

CAPABILITIES

▶ Low false alarm rate

▶ Compact size and light weight

▶ Large tunnel size accommodates full-sized checked baggage

▶ Golf-bag detection algorithm greatly reduces false alarms due to golf clubs

▶ Networked operation allows suspect bag images to be sent to remote screeners

OPTIONS

▶ Threat image projection (TIP)

▶ Multiplex control console

▶ Fully integrated field data reporting system

▶ Flat or sloped infeed and outfeed powered conveyors

▶ XL option for oversized bags

▶ External air conditioner

Throughput	226 bags per hour (standard system)
	130 bags per hour (XL option)
Max. bag size	Standard: 160 cm (63 in) L x 63.5 cm (25 in) W x 63 cm (24.8 in) H
	XL option: 250 cm (98.4 in) L x 63.5 cm (25 in) W x 63 cm (24.8 in) H
Safety	Conforms to applicable U.S. and international radiation safety regulations

leidos