CTX 9800 DSi™

POWERFUL CT-BASED EXPLOSIVES DETECTION

TSA CERTIFIED

ECAC STANDARD 3 APPROVED

CAAC CERTIFIED

With more than 2,000 CTX explosive detection system (EDS) units deployed worldwide, we are an experienced and trusted security solution provider. Built on a scalable platform, our CTX 9800 DSi is ECAC Standard 3 approved and TSA certified, providing high levels of detection and low false alarm rates (FAR) for hold baggage screening. This computed tomography (CT)-based system delivers superior 3D imaging capabilities for quick, accurate threat detection. Designed for use with any baggage handling system (BHS), we offer several networking solutions, connecting multiple units for efficient monitoring and control.
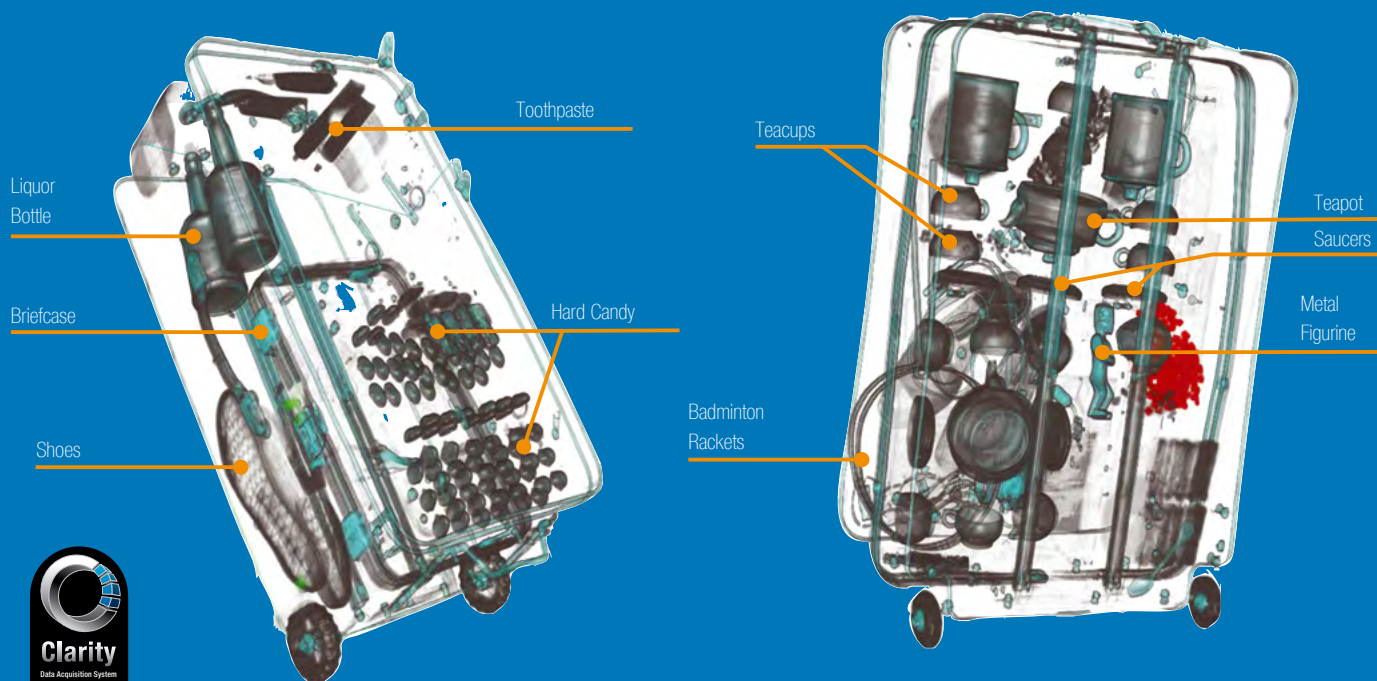
FEATURES

- European Civil Aviation Conference (ECAC) Standard 3 approved at 0.3 and 0.5 m/s
- Transportation Security Administration (TSA) certified, approved for totes and on the Qualified Product List
- Civil Aviation Administration of China (CAAC) certified
- Proven performance and reliability in live airport operations
- Selectable belt speed of 0.2, 0.3 or 0.5 m/s with throughput[1] of up to 1050 or 1800 BPH
- High-resolution 3D images from a single X-ray source
- Dual-energy 2D and 3D organic/inorganic material discrimination
- Constant-width one-meter conveyor belt and rectangular tunnel[2]
- Intuitive user interface
- Customized multiplexing solutions (MUXv2™)
- Efficient power consumption
- Upgrade capabilities to meet future detection and capacity requirements
- Extensive support and service capabilities by a global network of field service teams

smiths detection

Formerly Morpho Detection, a Safran Company

Bag views captured using Clarity shown below

Toothpaste
Liquor Bottle
Briefcase
Hard Candy
Shoes

Teacups
Teapot
Saucers
Metal Figurine
Badminton Rackets

Clarity
Data Acquisition System

Superior Detection Capabilities

Since its inception, the CTX family has delivered leading automatic threat detection capabilities, with continual algorithmic improvements to meet ever-expanding threats, while continuously pushing false alarm rates to new lows. Its proprietary one-X-ray-generator, dual-energy design not only provides higher system reliability than other dual-energy EDS, but further reduces FAR by accurately identifying the organic/inorganic nature of a potential threat.

Dual-Energy User Interface

The CTX 9800 DSi User Interface assists operators in maximizing the value, detail and threat separation that high-resolution 3D images provide, helping them successfully perform on-screen alarm resolutions. Combining these 3D images with advanced navigation tools enhances the analysis of details and specific structures of suspected threats, facilitating efficient and effective security decisions.

Now with inorganic/organic highlighting, these advanced image analysis tools make it easy for operators used to viewing conventional X-ray images to transition to full volumetric 3D imaging technology. The 2D and 3D image capabilities allow for different concepts of operation and alarm resolution protocols.

Clarity Data Acquisition System (DAS)

Working with high-resolution 3D images, operators get to visually "travel" throughout a bag to get a detailed view of every bag element. Clarity DAS brings together our automated EDS expertise with leading 3D CT technology used in medical scanners. The combination of 3D images and precise algorithmic calculations provide an increased ability to identify threats, reduce false alarm rates and lower operational costs.

Multiplexing Solutions (MUXv2)

Multiplexing (MUXv2) refers to the software and hardware that network multiple CTX systems with User and Control Interfaces for more efficient remote screening of baggage. Scalable to your airport's needs and designed to integrate the CTX 9800 DSi and other CTX systems, MUXv2 provides efficient image distribution among operators and allows information to be stored in a central location. Along with redundancy of key network components to reduce points of failure and maximize system reliability, MUXv2 helps increase security and lower operational costs – while optimizing the use of your critical personnel.

BHS Integration

We've been integrating our EDS equipment with BHS partners for more than fifteen years and have experience with all the BHS providers. An ideal system for fully integrated solutions, the CTX 9800 DSi has a constant-width, one meter-wide conveyor belt and tunnel, reducing the need for costly and potentially troublesome directional input devices. The CTX 9800 DSi also accommodates integration with totes, and can accept large and elongated bags of up to 2.5 m in length, which can minimize the quantity of out-of-gauge or oversized luggage requiring separate processing.

Dynamic screening allows the CTX system to change inspection modes automatically on a bag-by-bag basis through commands from the BHS. It also enables inspection options to be adjusted based on security and operational needs or the demands of future screening protocols.

Sensor Fusion

Utilizing flexible network architecture, the CTX 9800 DSi collaboratively combines with other platforms such as X-ray Diffraction (XRD). The fusion of multiple sensors increases the scope of threat detection and alarm resolution capabilities, which helps to enhance the security of the combined system. By offering the potential to minimize human operator intervention, Sensor Fusion contributes to higher detection rates, lower false alarm rates, and reduced operational costs.

Services and Support

We believe in extending the lifecycle of our customers' investment as long as possible. With support for more than 2,000 CTX EDS worldwide, including maintenance services at 90% of the world's top 20 airports, we know what works in every type of environment. Our leading-edge service offerings include predictive analytics, remote monitoring and integrated system diagnostics to better ensure system uptime and availability.

Our commitment: provide implementation support and ongoing service to help you be successful. We offer customized EDS modeling services and project support along with pre-implementation design layout and deployment. Flexible support programs and operator training are also available to optimize product performance and ensure a smooth transition to new or upgraded systems, while a twenty-four hour Customer Assistance Center provides access to an integrated response program and qualified technical support personnel.

Visit morphodetection.com or connect with one of our EDS specialists at info@morphodetection.com to discover more about the benefits an experienced security provider delivers.

[1] Throughput assumes integrated environment using an average of 75 cm bags and 25 cm bag spacing.
[2] For current tunnel opening dimensions, please see the CTX 9800 DSi technical specifications document.

bringing technology to life

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