Morpho Detection’s focus on advanced technologies to protect people, assets and communities is the driving force behind the development of its latest Explosives Detection System (EDS) — the CTX 5800™. The CTX 5800 represents the next generation in Computed Tomography (CT) technology; combining advanced high-definition 3-D imaging (HD3-D) baggage screening in a compact footprint and form factor designed to meet the most demanding of screening challenges, especially in space and weight-restricted locations.

Benefits

- TSA-certified
- Meets ECAC Performance Standard 3 for EDS
- Smallest footprint CT system with over 400 bph* currently available
- 85 cm bore
- Higher efficiency screening with belt speed of 0.14 m/s
- Multiple integration methods and multiplexing network capability
- 220V AC 30 Amp single phase power
- Internal UPS for power conditioning and continuous operations
- Configurable system options
- Simple installation
- Lower false alarm rate

* Throughput assumes integrated environment using an average of 86 cm bags and 30 cm bag spacing.
In airports and other commercial buildings around the globe, there is one factor that consistently causes operators and designers headaches—available real estate. The reduced footprint CTX 5800, with throughput over 400 bags per hour (bph)* fulfills two critical customer needs: a highly reliable EDS, in a package that takes up a limited amount of space. The higher throughput capability allows for airport growth without additional equipment or upgrades.

Advanced User Interface

Benefiting from extensive experience and operational human factor studies, the CTX 5800 user interface helps operators maximize the value, detail and threat separation that HD3-D images generated by the Clarity DAS can provide. With the ability to visually “travel” throughout the bag and fully manipulate images, operators have more information and flexibility than ever before. Combining HD3-D with advanced navigation tools enhances the analysis of details and specific structures of suspected threats by maximizing the information available to help make efficient and effective security decisions. Since the CTX 5800 is based on the same software infrastructure as the CTX 9800 DSi, previously trained operators have a seamless transition to the CTX 5800 user interface and operations.

Multiplexing Solutions

Multiplexing (MUXv2™) is the software and hardware that networks the CTX 5800 with the User and Control Interfaces for remote screening of checked baggage. Designed to network the CTX 5800 with other CTX 5800’s as well as the CTX 9x00 family, MUXv2 seamlessly processes high-resolution 3D and 2D bag images. MUXv2 dramatically improves the availability, scalability and operational savings of the EDS network, and increased scalability allows for a greater number of CTX systems to be placed on a single MUXv2 cluster. With redundancy of key network components and increased cluster size, MUXv2 provides efficiency and potential cost savings to EDS airport installations.

Versatility in Integration

The CTX 5800 offers a vast number of integration options to meet customers’ needs. Due to its non-intrusive size, the system can operate easily in most lobbies and other space constrained environments. The ability to see over and around the CTX 5800 can help vigilant operators keep lobbies safe and secure. Checkpoints for airports, government buildings and other venues can now take advantage of increased security offered by CT-based detection without the need to allocate additional precious real estate.

Don’t let the system sizes fool you, with simple extensions, the CTX 5800 can handle almost anything from large duffle bags, to skis and golf bags. The CTX 5800 supports fully integrated solutions with its ability to communicate with your baggage handling/conveying system through various communication protocols. 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.

Services and Support

Committed to ensuring operational availability and efficiency, Morpho Detection has developed comprehensive maintenance programs to provide continuous customer support. With one of the highest MTBCF records in the industry, baggage-screening operations can run more smoothly with the CTX 5800. When maintenance is required, our highly trained field service team members are on standby to maintain and diagnose systems, troubleshoot problems, and repair or replace parts.
Enhanced remote diagnostic capabilities allow monitoring of all CTX 5800 and CTX 9x00 series systems deployed within an airport from a single central location. This centralized monitoring and status management, combined with an advanced user interface, ensures prompt notification when problems do occur and faster response times.

Morpho Detection also provides flexible support programs and training to optimize product performance and increase customer satisfaction. Our 24-hour Customer Assistance Center provides prompt access to qualified technical support personnel and an integrated response program. Meanwhile, our training experts provide specialized instruction to CTX operators through year-round courses to optimize their effectiveness and productivity.

For successful CTX product integration, customers and BHS companies can utilize our EDS modeling services and Morpho Detection’s Project Management team to plan for proper design layout and deployment. Each model is customized to the unique operational requirements of each facility. Contact us to learn how Morpho Detection can support your aviation security needs.

Bag views captured using Clarity shown below
KEY MISSIONS, KEY TECHNOLOGIES, KEY TALENTS