

Hold Baggage Solutions



Intelligent Solutions for Today and Tomorrow

Hold baggage screening (HBS) is about to take the next step in its evolution. Strong passenger growth and increasing threats require technology which goes beyond security standards and regulations. The aviation industry now demands solutions which also deliver exceptional performance.

→ Trusted experience

With 40 years' experience in aviation security, Smiths Detection has become the trusted partner for airports, airlines and government authorities around the globe. We have the expertise to support any type of operation, from small airports to international multi-airport groups — and also the most comprehensive HBS portfolio in the industry.

→ Integrated solutions

As screening is an integral part of a broader, complex operation, interoperability is critical. We collaborate with all Baggage Handling System providers, working together to achieve successful and timely system integration and implementation. With the right structure, experience, knowledge and tools, the Smiths Detection team can design and deploy the screening solution you need to achieve your specific operational objectives.

→ Comprehensive, proactive support

To maximise uptime, our global team of field service technicians and engineers deliver fast response and resolution and take a proactive approach to maintenance. Using the latest in sensor technology and data insight processes to support predictive maintenance, they are committed to achieving 100% system availability.

Security, Efficiency and Longevity

The key criteria for effective HBS solutions

SECURITY

We have a long and successful track record in helping airports keep pace with ever-changing threats and regulations. Our HBS solutions are certified to meet the latest standards from ECAC, TSA and numerous other relevant agencies and regulators.

Using the latest and most advanced technologies, they support highly accurate identification of potential threat substances and have the built in capacity to detect the new, and as yet undefined, threats of tomorrow.

EFFICIENCY

Faster belt speeds and the lowest false alarm rates (FAR) in the industry deliver a higher throughput — which means the same volumes can be handled by fewer machines and baggage handling lines. Smiths Detection is also setting new standards in networking which further improves efficiency and performance by connecting several lines, terminals or even airports located across countries or borders.

LONGEVITY

We use the best quality components and ensure our equipment is built to last. Efficient service support; preventative, even predictive, maintenance; along with regular updates to software for all our components, all help extend the life of your solution. Network infrastructure, such as servers or workstations, can be upgraded without replacing the screening system, hence protecting your core investment. Our on-going commitment means your equipment can be expected to have a life cycle of 15 to 20 years and, in some cases, even 30+ years.

SDX 10060 XDi

X-ray Diffraction for hold baggage

- Automated alarm resolution at Level 2
- Overall false alarm rate minimised
- Optimised staff resources
- Increased productivity
- Decreased costs
- Superior material analysis
- Highly accurate substance identification
- Detection of changing compounds
- Mitigates 'homemade' explosives threat
- Complements existing technologies
- Easily integrated into baggage handling system

A New Area in Security Screening

Automating alarm resolution with X-ray Diffraction

AUTOMATED ALARM RESOLUTION

Multi-level baggage handling operations are constantly under pressure to screen large volumes quickly and efficiently. Typically, Explosives Detection Systems (EDS) automatically clear 70-80% of items at Level 1, meaning 20-30% alarmed images are sent to analysts for on screen resolution at Level 2. The groundbreaking Smiths Detection SDX10060 XDi transforms this process by automating up to 80% of these Level 2 decisions, in turn improving both security and efficiency.

ELEVATED OPERATIONAL EFFICIENCY

For automated alarm resolution, the SDX 10060 XDi is easily integrated into baggage handling systems alongside EDS scanners. Each integrated diffraction scanner can receive alarm queries from several Level 1 systems. This substantially reduces the need for Level 2 on-screen resolution, hand searches, trace detection or other manual inspections by automatically clearing false alarms or benign objects. Overall false alarm rates have been shown to fall from 20% to 4%. This not only addresses the challenges of staff shortages but also

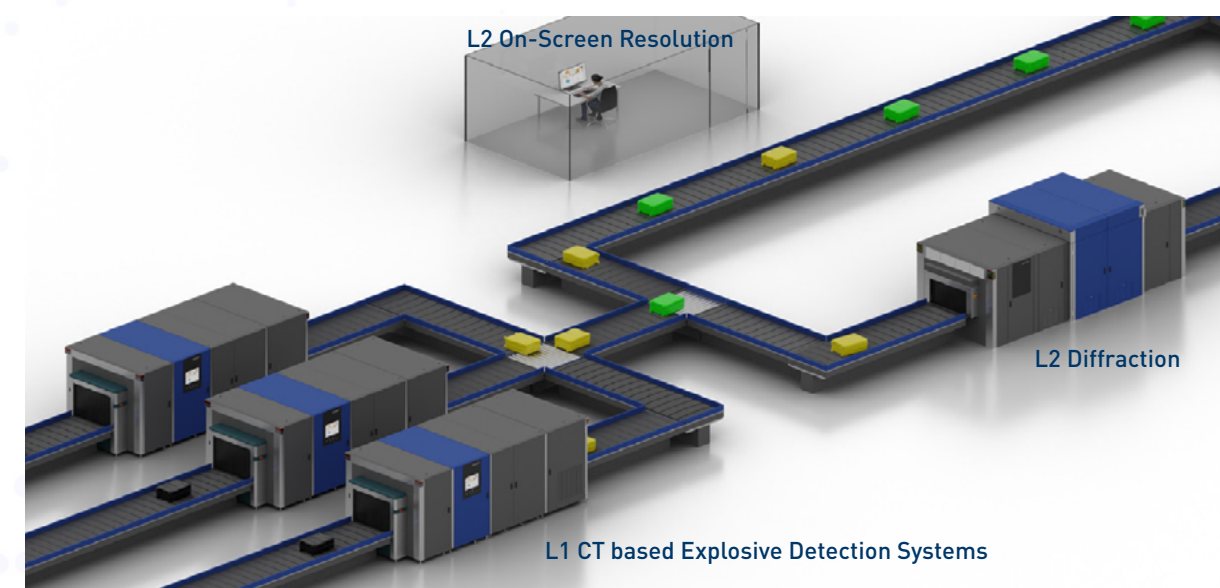
improves overall efficiency, reducing operating costs and the chance of human error.

SUPERIOR MATERIAL ANALYSIS

X-ray Diffraction (XRD) is a well proven, non-invasive inspection technology offering highly accurate material discrimination and substance identification based on molecular structure. It creates a 'diffraction fingerprint' to differentiate between materials — even those with very similar densities. This precise and orthogonal approach makes it particularly suitable for resolving alarms generated at Level 1; and detecting constantly changing powder, liquid or solid compounds such as 'homemade' explosives and narcotics.

FUTURE PROOF

The SDX 10060 XDi takes security to new levels. It is designed to meet ECAC 3.1, 3.2 and TSA 7.2 and is also one of the few technologies likely to detect evolving threats and therefore meet future regulatory standards. The detection library will evolve over time ensuring your operation remains future-proofed.



HI-SCAN 10080 XCT



Automatic detection of explosives, iCMORE unregulated items like Dangerous Goods incl. Lithium Batteries, Weapons, Narcotics

- ECAC EDS Std. 3 & 3.1 approved (0.5 m/s)
TSA certified (5.8 & 7.2)
STP & ACSTL image quality
- Numerous totes from key BHS suppliers approved
- 1,070 x 810 mm / 42.1" x 31.9"
- 0.5 m/s

CTX 9800 DSi



Automatic detection of explosives

- ECAC EDS Std. 3 & 3.1 approved
TSA certified (5.8 & 7.2)
TSA qualified
CAAC certified
IPMO certified
- Numerous totes from key BHS suppliers approved
- 1,000 x 620 mm / 39.38" x 24.4"
- 0.2, 0.3 or 0.5 m/s

CTX 5800



Automatic detection of explosives

- ECAC EDS Std. 3 approved
TSA certified (5.8 & 7.2)
TSA qualified
CAAC certified
IPMO certified
- Compact footprint for operation in areas with limited space
- 750 x 600 mm / 29.5" x 23.6"
- 0.14 m/s

HI-SCAN 10080 EDX - 2is



Automatic detection of explosives

- ECAC EDS Std. 2 approved
Regulation (EU) 2015/1998
compliant in 100% inspection mode
- 1,070 x 810 mm / 42.2" x 31.9"
- 0.5 m/s

SDX 10060 XD_i



Detects explosives and narcotics and other contraband

- Designed to meet ECAC & TSA standard
- 1,050 x 605 mm / 41.3" x 23.8"
- 0.2 m/s

IONSCAN 600



Detects explosives and narcotics

- Approved/certified by CAAC
- Portable desktop system
370 x 300 x 320 mm (WxDxH)

SDX 10080 SCT



Hold baggage and air cargo screening elevated to a new level — a system built on unparalleled expertise

- ECAC EDS Std. 3.1 approved
Designed to meet ECAC Standard 4 or TSA 9.0
- 1,070 x 810 mm / 42.1" x 31.9"
- 0.5 m/s



Comprehensive, Reliable, Compliant

Our extensive portfolio enables you to fulfil diverse security requirements and regulatory demands with a variety of CONOPS. Put your trust in us for high quality solutions, reliability and global service support.

A photograph of two male technicians in a control room. They are wearing dark blue polo shirts and are looking at a large monitor. One technician is pointing at the screen. The background shows a modern control room with large windows and other equipment.

Networking Solutions

Increasing security requirements and the need to reduce operational costs and optimise vital resources are the key challenges addressed by our customised networking solutions. From health status monitoring to real-time system management reporting and key functions such as image distribution and evaluation, we can meet the demands of the industry.

Our equipment is built with the highest level of IT security in mind. It includes flexible, reliable and effective interfaces, driven by structured IT best practices.

Image Distribution

Delivering images to analysts in real-time is fundamental and critical to the screening solution and, therefore, must be effective, reliable and offer high availability. Built-in redundancy, leading industry standard network components and servers and hot-swappable elements ensure network dependability and minimise downtime.

Image Evaluation

Our operator workstations offer a proven graphical user interface (GUI) which clearly displays images and enables fast, accurate on-screen resolution. To ensure the best possible support for analysts, we worked at length with several regulators to refine our GUI and develop simple, ergonomic and intuitive operation. It also has different settings to suit individual evaluation stages within the multi-level HBS.

System Management

The system is continually monitored, providing central access to reporting and diagnostic data for valuable insights to support resource planning and allocation, general administration and system health. Our management functions can be accessed via multiple local workstations or a web-based platform.

A man in a high-visibility yellow and grey vest over a dark blue shirt is shown in profile, pointing his right index finger at a vertical touch-screen control panel. The background is a blurred industrial or airport setting with various equipment and lights.

Contact us

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Smiths Detection is a global leader in threat detection and security screening technologies, dedicated to making the world a safer place. We provide advanced solutions for aviation, ports and borders, urban security, defence and the circular economy. Our cutting-edge technologies ensure the safety of people and infrastructure. Backed by 80 years of experience, a global footprint, and a commitment to innovation, Smiths Detection is trusted by governments, airports, and security agencies worldwide. From tailored training to lifecycle service support, we help customers to meet their operational demands and adapt to evolving threats with precision, reliability, and integrity.

www.smithsdetection.com