Focus On
Hold Baggage Screening

Your Complete Hold Baggage Solution
Intelligent solutions for today and tomorrow

Hold baggage screening (HBS) is going through a transformative phase. More people are travelling at a time when security threats are at their highest. With new regulations demanding efficient systems that detect a wider range of substances, you need an HBS solution that delivers the highest levels of security and performance.

With 40 years’ experience in aviation security, Smiths Detection is the trusted partner for airports, airlines, and government authorities around the world. Our comprehensive HBS solution portfolio has the necessary flexibility and scalability for integration into everything from small airports to multi-terminal and multi-airport operations. With a deep understanding of detection technology and compliance, we deliver the right solutions for today, which are also ready to handle the detection, growth and regulatory demands of tomorrow.

Comprehensive, proactive support

All airports and terminals have individual requirements and constraints. Our solution architects, dedicated account managers and programme managers have the expertise to work with you to design a concept of operations (CONOPS) which helps achieve your very specific throughput, operational and performance objectives.

Integration, implementation and ongoing support is provided by our global team of field service technicians and engineers. They deliver proactive, preventive maintenance to ensure your detection solutions operate in peak condition throughout the lifecycle of your investment. Using the latest in sensor technology and data insight processes, our service teams are committed to achieving 100% availability.

Extensive supplier network

As detection solutions are an integral part of a complex operation, interoperability is a critical factor. We regularly collaborate with other suppliers so you can be confident we will work effectively together to integrate our solutions and meet implementation commitments.

- Four decades in aviation security plus more than 25 years in CT technology
- >90% of world’s 50 busiest airports rely on our solutions
- 4,000+ HBS scanners installed at international airports
- >70% of 100 largest airports use our integrated HBS networking solution
Security, efficiency and longevity

The key criteria for effective HBS solutions

At Smiths Detection, we understand the operational and security challenges you face. Our advanced range of integrated and networked HBS solutions have been designed to optimise both performance and efficiency at airports of all sizes around the world. We focus on delivering on three essential outcomes: security, operational efficiency and longevity.

Security

We have a long and successful track record in helping airports keep pace with ever-changing threats and regulations. For example, we introduced the world’s first automatic explosives and liquid detection system; and also the first high-speed, hold baggage explosives detection system to combine multi-view X-ray technology with 3D tomography. Liaising closely with the relevant regulatory authorities, we ensure our equipment is fully certified.

Our HBS solutions offer superior levels of detection and meet the latest standards from ECAC, TSA, CAAC and ISA. Combining extensive libraries and advanced algorithms with proprietary computed tomography (CT), as well as best in class X-ray technology, they support highly accurate identification of suspicious substances. Scalable by design, our systems also have the capacity to detect the new, and as yet unknown, threats of tomorrow.

Efficiency

Bringing together outstanding detection, high throughput, low false alarm rates (FAR) and impressive image quality makes our HBS scanners exceptionally efficient.

Our higher throughput, CT-based solutions enable contents to be examined from every angle, generating 3D images with very precise data. The end result: quicker, more accurate judgements can be made on substances within the bag.

Designed for use with any baggage handling system (BHS), we offer several networking solutions that connect multiple units for efficient monitoring and control. Adaptable to the size of your airport, they support efficient image distribution between operators, whilst allowing information to be stored in a secure, central location. With built-in redundancy to ensure network dependability, leading industry standard switches and servers, and hot-swappable components to minimise downtime, our networking solutions help increase security and lower operational costs – and, at the same time, optimise critical resources.

Longevity

A well serviced and maintained hold baggage solution will last for 15 years or more. A reliable partner with a proven track record of service excellence can provide the support you need to achieve longevity. Our global, highly responsive network brings together experienced service teams and business partners working proactively to keep your solutions in peak condition.

Our service philosophy supports a preventive approach to system maintenance, and our teams are ready to provide a fast response and resolution. This pre-emptive approach to service and repair brings a host of potential benefits, including longer equipment life, lower overall cost of ownership and a stronger ROI for detection systems.
Flexible, scalable solutions

Our comprehensive HBS portfolio enables you to fulfill 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.

Screening solutions

HI-SCAN 10080 XCT

- ECAC EDS Std. 3 approved (0.5 m/s)
- TSA certified (0.5 m/s)
- STP image quality
- 0.5 m/s
- 107 x 81 cm
- Automatic detection of explosives
- Numerous totes from key BHS suppliers approved

CTX 9800 DSi

- ECAC EDS Std. 3 approved (0.5 m/s)
- TSA/CAAC certified (0.3 m/s)
- TSA approved/IPMO certified (0.2 m/s)
- 0.2, 0.3 or 0.5 m/s
- 100 x 62 cm
- Automatic detection of explosives
- Numerous totes from key BHS suppliers approved
YOUR NEEDS

**CTX 5800**
- **ECAC EDS Std. 3 approved**
- **TSA/CAAC/IPMO certified**
- **0.14 m/s**
- **75 x 60 cm**
- Automatic detection of explosives
- Compact footprint for operation in areas with limited space

**HI-SCAN 7555aTiX**
- **ECAC EDS CB C2 approved**
- **0.2 m/s**
- **75.5 x 55.5 cm**
- Automatic detection of explosives
- Compact footprint for operation in areas with limited space

**HI-SCAN 10080 EDX-2is**
- **ECAC EDS Std. 2 approved**
- **0.5 m/s**
- **107 x 81 cm**
- Automatic detection of explosives
CHOOSING THE BEST SOLUTION FOR YOUR NEEDS

Screening solutions

**HI-SCAN 100100T-2is**
- 100% image evaluation as an optional screening method
- 0.2 m/s
- 101 x 101 cm
- No automatic detection
- 100% image evaluation for compliant operation

**HI-SCAN 100100V-2is**
- 100% image evaluation as an optional screening method
- 0.2 m/s
- 101 x 101 cm
- No automatic detection
- 100% image evaluation for compliant operation

**IONSCAN 600**
- ECAC and CAAC approved for aviation screening to detect explosives and/or narcotics
- Detects explosives and narcotics
- Portable desktop system
- 37.7 x 30.4 x 32.7 cm (WxDxH)
Networking Solutions

System Management

- User management
- Reports & Statistics
- Status monitoring
- Dashboard
- TIP
- X-ray Image Management IMM
- Remote service

Image Evaluation

- Recheck
- Analyst
- TIP
- RFID reader
- Barcode reader
- Touch screen support

Server & Networking

Matrix Server
- Based on incent.data technology
- Central Image Data Archive CIDA
- Advanced workflow control database

MUX
- Highly customizable, site-specific network design
- Multiple redundancies
- Hot-swappable components
- Centralized data collection
- Seamless integration of 2-D and 3-D images
Making the world a safer place

Smiths Detection is one of five operating divisions of Smiths Group, a global technology company listed on the London Stock Exchange. Employing over 23,000 people in more than 50 countries, Smiths Group is a world leader in the practical application of advanced technologies, delivering products and services for the threat & contraband detection, medical devices, energy and communications markets worldwide.

Smiths Detection is a global leader in threat detection and screening technologies for aviation, ports and borders, urban security and military. With more than 40 years of field-tested experience, we deliver the solutions needed to protect society from the threat and illegal passage of explosives, prohibited weapons, contraband, toxic chemicals and narcotics.