

# Focus On\_ Hold Baggage Screening

Your Complete Hold Baggage Solution



**smiths detection**  
bringing technology to life

# 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.



## CHOOSING THE BEST SOLUTION FOR

### 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



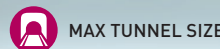
Numerous totes from key BHS suppliers approved



COMPLIANCE



BELT SPEED



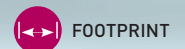
MAX TUNNEL SIZE



DETECTION



TOTE CERTIFICATIONS



FOOTPRINT

# YOUR NEEDS

## CTX 5800



ECAC EDS Std. 3 approved  
(0.14 m/s)  
TSA/CAAC/IPMO certified  
(0.14 m/s)



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)



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)  
STP image quality



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)



COMPLIANCE



BELT SPEED



MAX TUNNEL SIZE



DETECTION



TOTE CERTIFICATIONS



FOOTPRINT

## Networking Solutions

### System Management



#### incent.control Web-based Console

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

### Image Evaluation



#### incent.view 3D + 2D Workstation

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

### Server & Networking



#### Matrix Server based on incent.data technology

- Cental Image Data Archive CIDA
- Advanced workflow control database

### Server & Networking



#### 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.