

# Air Cargo Solutions





# Keeping air cargo moving — without compromising security



Air cargo operators face relentless operational pressure. Shipment volumes continue to grow, security regulations are tightening globally and customers expect faster delivery than ever before.

At the same time, labour costs are rising, skilled operators are harder to recruit and margins are under constant scrutiny. Every delay affects aircraft turnaround. Every re-screen increases cost. Every system outage disrupts the supply chain.

Security screening must not become a bottleneck to growth. It must protect your operation while enabling speed, efficiency and predictable performance. That requires more than compliance — it demands intelligent, integrated screening solutions built around the realities of modern cargo operations.

Smiths Detection delivers air cargo security systems that combine regulatory assurance with operational efficiency, helping you move more freight, more safely, at lower cost per item.

## Solutions Built Around Your Cargo Profile

No two cargo facilities operate in the same way. Whether you process high volumes of small parcels, mixed break-bulk shipments

or dense palletised consignments, your screening solution must align with your throughput targets, facility footprint and regulatory obligations.

Our conventional X-ray systems provide flexible, reliable screening for break-bulk and mixed cargo. Dual-view imaging accelerates inspection by giving operators greater clarity and confidence, reducing false alarms and minimising unnecessary re-inspection. Designed for seamless integration into material handling systems, these solutions reduce manual handling while maintaining a compact operational footprint.

For consolidated and palletised cargo, high-powered systems deliver enhanced penetration to screen dense loads efficiently, including LD3 containers and large-scale consignments. By reducing the need for cargo breakdown, these systems increase throughput and protect valuable turnaround time.

Whatever your operational model, our portfolio allows you to select the level of performance — from standalone screening to fully integrated high-throughput environments — that best supports your security and business objectives.







# Industry-Leading Air Cargo Screening Solutions

## Conventional X-Ray Screening for Break-Bulk Cargo

### SDX 100100 DV HC

Featuring a raised conveyor belt for ergonomic use, the dual-view scanner provides high-quality images of screened objects of different sized parcels.



- Conveyor height 750 mm (29.5")
- 1,009 x 1,010 mm / 39.7" x 39.8"
- 0.2m/s and 0.5m/s

### SDX 100100 DV LC

Featuring a low conveyor belt, this dual-view X-ray system is designed for screening oversized bulky freight.



- Conveyor height 350 mm (13.7")
- 1,009 x 1,010 mm / 39.7" x 39.8"
- 0.2m/s and 0.5m/s

## Conventional screening for consolidated, palletised goods

We also offer scanners aimed solely at the inspection of large, consolidated or palletised goods. Our most powerful option, the HI-SCAN180180-2is pro is capable of screening LD3 containers and features two 300kV X-ray generators for penetrating 75mm steel, reducing time spent on break down and re-inspection and ensuring a fast and efficient screening process.

### HI-SCAN 180180-2is pro

This advanced dual-view 300kV X-ray cargo scanner designed for the inspection of large scale consolidated and palletised goods provides excellent steel penetration.



- 1,810 x 1,821 mm / 71.2" x 71.7"
- 0.24 m/s

### HI-SCAN 145180-2is pro

The innovative dual-view 200kV air cargo screening system meets the demand for fast turnaround, high levels of security and an attractive total cost of ownership (TCO).



- 1,466 X 1,817 mm / 57.7" x 71.5"
- 0.24 m/s

### HI-SCAN 145180-2is

HI-SCAN 145180-2is is a state-of-the-art X-ray inspection system for scanning objects up to a size of 145 cm x 180 cm [57" / 71"] W x H].



- 1,470 x 1,820 mm / 57.8" x 71.7"
- 0.24 m/s





Advanced CT  
technology,  
maximum  
throughput

In-line, Automatic Screening / Explosives Detection Systems

HI-SCAN 10080 XCT

This high-speed, explosives detection system (EDS) features a dual-view dual-energy X-ray line scanner with full 3D volumetric computed tomography (CT) imaging and reconstruction.



1,070 x 810 mm / 42.1" x 31.9"

0.5 m/s

SDX 10080 SCT

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



1,070 x 810 mm / 42.1" x 31.9"

0.5 m/s

HI-SCAN 10080 EDX-2is

This automatic explosives detection system uses dual-view X-ray for an improved the evaluation process.



1,070 x 810mm / 42.2" x 31.9"

0.5 m/s

SDX 10060 XD<sub>i</sub>

SDX 10060 XD<sub>i</sub> is efficient in automating alarm resolution and can easily be integrated into material handling systems alongside explosive detection scanners.



1,050 x 605 mm / 41.3" x 23.8"

0.1-0.2 m/s

Explosives Trace Detection

IONSCAN 600

Detects/identifies explosives & narcotics in less than 8 seconds



- Non-radioactive IMS source

- Small, lightweight and portable



## iCMORE: Intelligent Material Detection for Smarter Air Cargo Screening

**iCMORE is transforming air cargo screening by delivering faster, smarter and more precise threat detection.**

Air cargo environments are complex. Shipments are dense and diverse, ranging from consolidated freight to fast parcels, which are particularly challenging to screen, and must be processed under tight time pressures and stringent regulatory requirements. Traditional screening methods can struggle to maintain high detection performance without slowing operations.

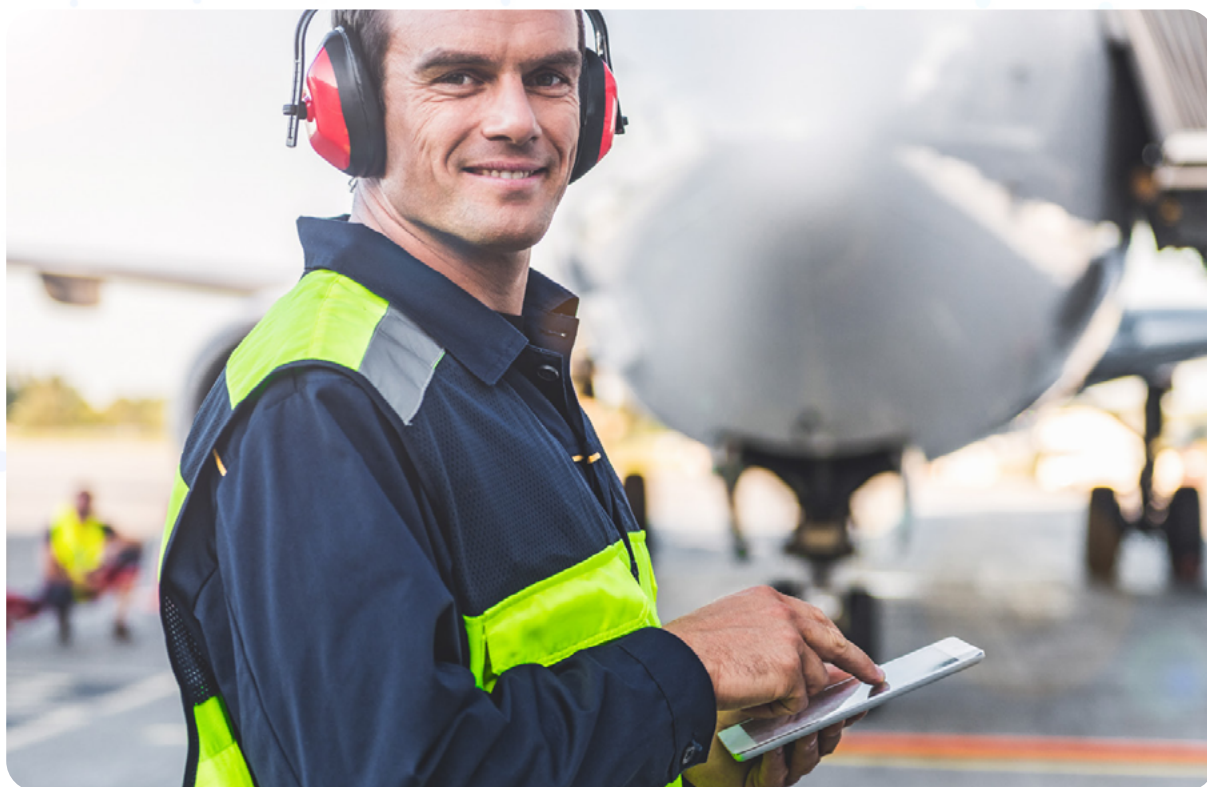
iCMORE addresses this challenge by identifying potentially dangerous objects in fast parcels based on their shape. X-ray diffraction technology complements this approach by providing precise material discrimination. Together, shape-based detection and material identification deliver a powerful combination for reliable fast-parcel screening in air cargo.

Rather than relying solely on image interpretation, iCMORE automatically identifies the material composition of items within a consignment.

By analysing unique material signatures, it enables operators to distinguish between benign goods and potential threats with greater confidence.

This data-driven approach reduces unnecessary secondary inspections and limits manual handling, improving overall efficiency.

For cargo facilities, the benefits are clear. iCMORE strengthens detection certainty, supports compliance with international aviation security standards, and accelerates alarm resolution to keep freight moving. It integrates seamlessly into existing screening workflows, enhancing current systems without disrupting operations. The result is a shift from purely image-based inspection to intelligence-led screening. iCMORE empowers security teams with deeper insight, increases throughput, and helps air cargo operations maintain the critical balance between robust security and operational performance.



# Faster, smarter and more precise threat detection





# Maximising uptime. Protecting performance.

In air cargo operations, performance is measured in minutes. Every delay impacts throughput, revenue and customer confidence. That's why our service philosophy is built around one priority: maximising operational availability.

Smiths Detection delivers comprehensive lifecycle support designed specifically for high-throughput cargo environments. From installation and commissioning through to upgrades and end-of-life planning, we work alongside your teams to ensure your screening systems perform at their peak — every shift, every day.

## Predictive. Preventative. Proactive.

Our advanced service model combines expert field engineers with intelligent system monitoring. Continuous equipment health data enables early identification of wear patterns and component fatigue, allowing intervention before failure occurs.

### This predictive approach means:

- Fewer unplanned shutdowns
- Reduced maintenance costs
- Extended equipment life
- Improved operational certainty

Maintenance is scheduled around your operational windows — not the other way around — ensuring minimal disruption to cargo flow.

## Flexible Service Agreements Built Around You

No two cargo operations are the same. That's why we offer scalable service agreements tailored to your footprint, throughput and regulatory environment.

### Options include:

- On-site resident engineers
- Remote technical support and diagnostics
- Preventative maintenance programmes
- Compliance inspections and certification support
- Extended warranties and performance guarantees

Clear, upfront labour and parts planning deliver cost transparency and budget predictability — eliminating unexpected expenditure.



Wherever you operate, our global service infrastructure ensures rapid, reliable support when you need it most.

### Fast Parts. Fast Fix.

Strategically located Forward Stock Locations (FSLs) enable rapid dispatch of consumables and critical spare parts worldwide. Combined with our certified regional engineers, this ensures reduced mean time to repair (MTTR) and faster restoration of full operational capacity.

### Future-Ready Through Lifecycle Upgrades

Security threats evolve. Technology advances. Regulations change.

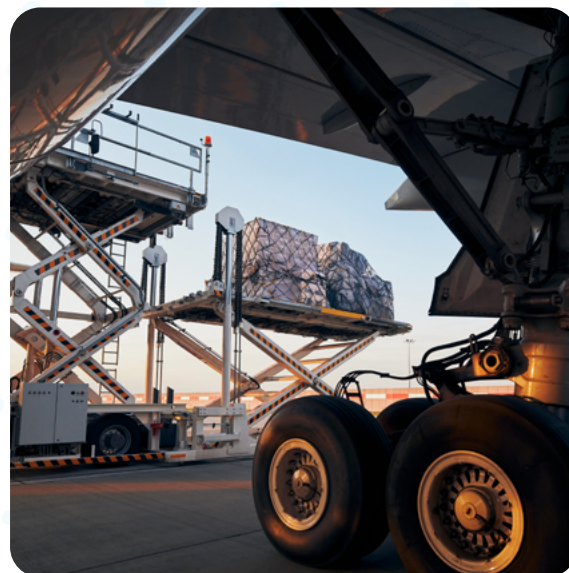
Our solutions are designed with upgrade pathways that protect your initial investment while enabling seamless adaptation to new standards and detection capabilities. From algorithm enhancements to hardware modernisation, we ensure your systems remain compliant, capable and competitive.

### Remote Diagnostics & Connected Service

Secure remote connectivity allows our technical teams to:

- Diagnose system issues in real time
- Deploy software updates quickly
- Optimise performance parameters
- Support local engineers with advanced troubleshooting

Many issues can be resolved remotely — reducing site visits and accelerating recovery time.



Global support.  
Local response.





## Notes Pages

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# 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](http://www.smithsdetection.com)**