

A photograph of a busy airport security checkpoint. In the foreground, there are metal detectors and conveyor belts. People are seen in motion, some walking through the lanes. In the background, there are more people, some wearing uniforms, and various pieces of security equipment. The scene is brightly lit and appears to be a modern airport terminal.

Focus On_
Checkpoint Security

The Smart
Checkpoint Solution

smiths detection

One source – one complete solution



The escalating challenges of new regulations, increasing passenger numbers and exacting business goals all demand more complex checkpoint security solutions. Systems must be flexible and future-proof with reliable and effective interfaces and a network to drive and monitor productivity.

Smiths Detection's integrated checkpoints have been developed to support you in achieving both security and operational objectives. We provide complete solutions and back-up you from planning and design to commissioning, integration and service for the lifespan of the equipment; all equipment, technologies, software and support from one source.

Our strategy for development and design focuses on the checkpoint as a whole (rather than individual components) and how it affects the broader operation. To understand and manage the flow and screening of passengers properly, we consider not only how the complete system can function smoothly and efficiently, but also how it integrates with the full kerb to gate experience.

We create solutions tailored to meet your specific business and regulatory requirements: delivering a cost effective process; increased passenger satisfaction; and sustainable commercial growth. We make it our business to understand your business: offering current performance analysis and future performance modelling to identify efficiencies at task level; and assess the effect of changes to staffing processes and technology.

The needs of each airport are considered in developing an integrated technical solution which is supported with a clear business case. Although the building blocks may be the same, the configuration is customised to each specific location and based on open technical standards to allow incorporation of the best available technologies including those offered by third parties.

All of our checkpoint solutions are upgradeable to accommodate escalating threats and, through sustained investment in research and development, we continue to innovate to further improve performance.



Security, efficiency and passenger experience

The benchmarks of an effective checkpoint

Smiths Detection truly understands the requirements and challenges of the passenger checkpoint. We have unrivalled expertise gained during four decades of supplying efficient and effective screening technologies to airports all over the world. Leveraging this in-depth knowledge to develop checkpoint solutions, we focus on the three critical issues for airport operators: security, efficiency and passenger experience.

Security

Our checkpoint solutions deliver the highest levels of security and the most advanced combination of exceptional detection performance; low false alarm rates; and fast belt speeds. We provide state-of-the-art technologies to screen passengers and their baggage for weapons and explosives whilst meeting exacting performance standards. A new generation of systems eliminates the need to remove electronic devices and/or liquids from hand baggage (EDS CB C3 regulatory standards) subject to national authority guidelines. Remote, centralised screening by multiple operators ensures speedy analysis of complex images and increased productivity.

Exactly which certified technology should be used with what lane design is determined based on the potential operational and economic benefits for each individual location.

Efficiency

Productivity, increased throughput and reduced costs all contribute to optimum operational efficiency. Our systems not only provide outstanding security but also support passenger growth and revenue. We empower you to keep passenger flow smooth and cost-effective which, in turn, increases staff productivity.

Our fully integrated, connected checkpoints capture data before, during and after the screening process and deliver actionable insights on passenger traffic to support resource deployment decisions.

Trials in several major European airports have shown that Smiths Detection's checkpoint solutions can reduce image evaluation time by up to two seconds; and the time operators spend handling trays by up to 13%. Passenger throughput increased by up to 36% with 550-600 trays handled per hour¹.

Passenger experience

Many airports are actively looking to create a better passenger experience through the security checkpoint by improving queuing times; the screening process; and interaction with staff. Using technology that meets the highest regulatory standards, we design individual solutions which can handle volumes in excess of predicted peak numbers and hence keep the length of queues under control. Overall, our checkpoint designs create a smoother, faster process for the travelling public.

A positive checkpoint experience relaxes passengers and boosts airside revenue. A study² in Brisbane discovered that on average, people spend 80% of the time in an airport undertaking discretionary activities. This presents an excellent opportunity to grow your retail business.

Clearly, any solution needs to be fully compliant with the appropriate regulatory framework, but it is also very important to consider how new or upgraded equipment could affect the overall operation of the checkpoint. Any investment needs to be as future-proof as possible whilst answering the questions and issues facing airports on daily basis.



¹ Melbourne: Traditional lane throughput: 440 trays/items per hour. Advanced screening lane: 550-600 trays per hour = Throughput increase of 25 – 36%

² Understanding the Airport Passenger Landside Retail Experience, Queensland University of Technology.

The central source for smarter checkpoint solutions

Smiths Detection offers everything from standard, off the shelf products to complete, individually tailored solutions. We have all the proven expertise, experience and back-up you need – and all from one source. Put your trust in us for high quality equipment, reliability and a global service footprint.



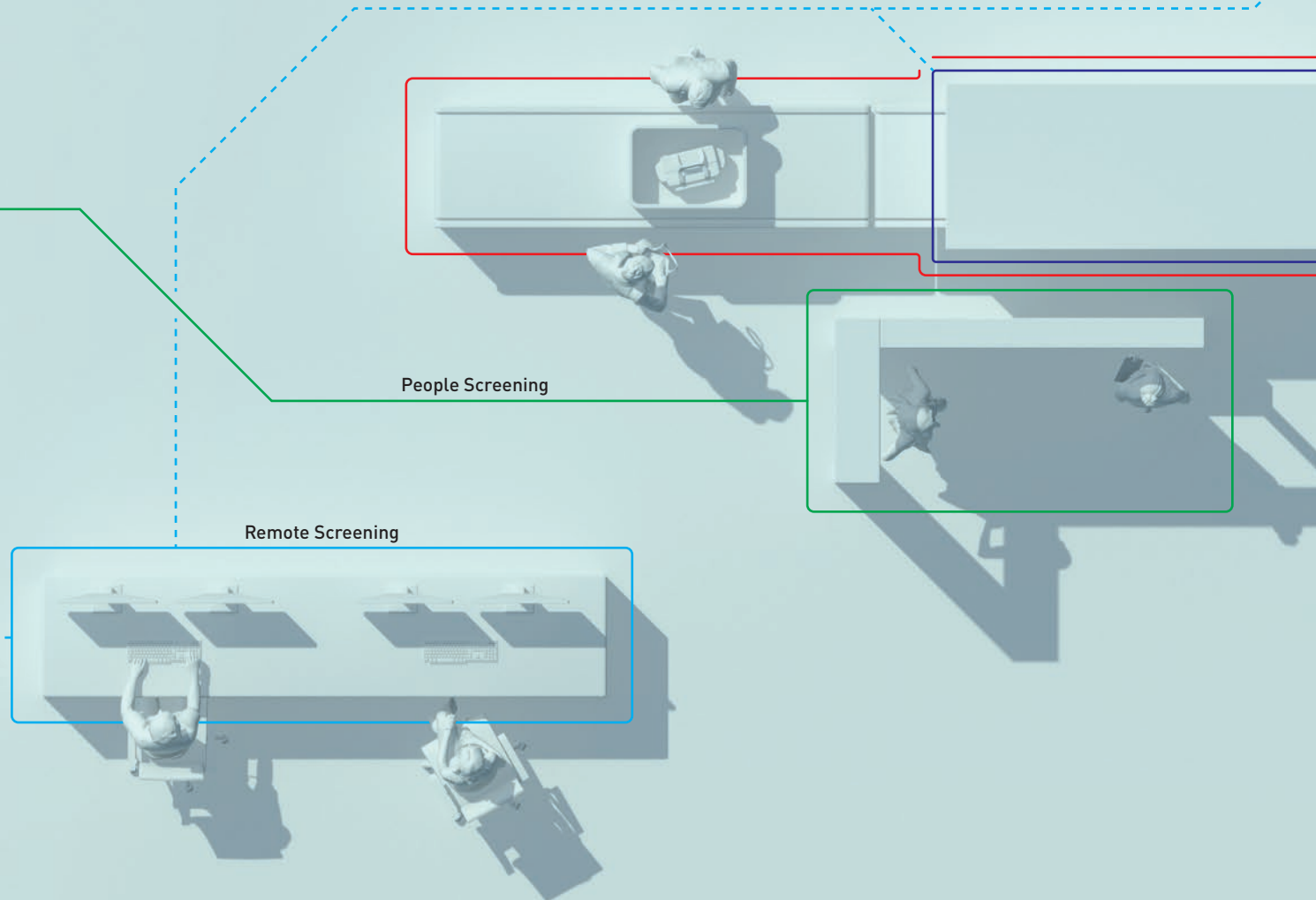
IONSCAN 600
Desktop ETD system detects traces of explosives and narcotics



eqo
Open plan people screening system based on millimetre wave technology
EU Std. 2 approved



Checkpoint.Evo^{plus}
Checkpoint management software for networking, analysis and reporting
Enables remote screening and directed search



Recheck



iLane.evo
Advanced checkpoint conveyor system with a high degree of automation



iLane.pro
Modular tray return system for customised checkpoints

Lane Design

Advanced X-ray Screening



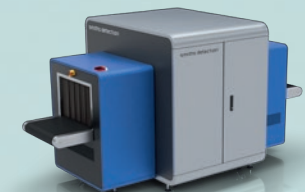
HI-SCAN 7555aTiX
Multi-view system designed for liquids detection in carry-on baggage and checked baggage screening according to EU EDS Std. 2



HI-SCAN 6040aTiX
Multi-view X-ray system for automatic detection of solid and liquid explosives in carry-on baggage EU LEDES Std. 2 Type C approved



HI-SCAN 6040-2is HR
Dual-view X-ray system for the automatic detection of explosives in carry-on baggage EU LEDES Std. 3 Type C approved



Checkpoint CT
Under development: Dual-energy Checkpoint CT
The system's features will support EU EDS CB C3 approval and also reflects the latest TSA regulations

Making the world a safer place

Smiths Detection is a global leader in threat detection and screening technologies for military, air transportation, homeland security and emergency response markets. We deliver the solutions you need to protect society from constantly changing chemical, biological, radiological, nuclear and explosive threats, as well as weapons, contraband and narcotics.

Recognised around the world as delivering best in class expertise, equipment and support, we are relied on by customers from multiple sectors to help them make the world a safer, more secure place. With over 40 years' experience, our mission is to turn technology into innovative solutions and services which preserve life, safeguard society and uphold the free flow of trade.

One of our greatest assets is our customer centric approach to service and support. We work hard to address the very varied and often unique challenges you face on a daily basis with outstanding solutions and support. From the operational demands of busy airport passenger checkpoints, to inspecting cargo for contraband at ports and land borders, Smiths Detection is constantly looking at ways to help you achieve your goals in different environments.

Smiths Detection is the trusted partner of choice in this very demanding sector: you can rely on our proven record in security.