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Every minute of every day, Smiths Detection's threat detection and security screening technology helps to protect people and infrastructure, making the world a safer place.

We deliver the solutions needed to protect society from the threat and illegal passage of explosives, prohibitive weapons, contraband, biological threats, toxic chemicals and narcotics.

Our goal is simple – to provide the security, peace of mind and freedom of movement upon which the world depends.

www.smithsdetection.com

→ PRODUCT HIGHLIGHT

smiths detection

Next Generation CT Screening at the Checkpoint

→ HI-SCAN 6040 CTiX
Model S



The world's leading checkpoint CT scanner, the HI-SCAN 6040 CTiX is ready to meet evolving threats. It is easy to integrate, has the highest certifications and quiet operation.

KEY BENEFITS

- Automatic explosives detection and object recognition
- Easy integration — including into 3rd party equipment
- Low energy consumption
- Minimal noise levels — zero vibration
- Award winning user interface
- Latest information security features and controls
- Broad international approval and certification
- Optimized weight and footprint of the Model S

the highest standards of security, it meets the demand for increased productivity and lower operating costs. By eliminating the need to remove electronic devices, liquids and gels from hand luggage, it eases a key passenger pain point and significantly improves customer experience.

The HI-SCAN 6040 CTiX uses CT technology, automatic explosives detection algorithms and optionally the automated object recognition software iCMORE, which can detect prohibited items such as weapons. It produces high quality, 3D X-ray images in real time to support operators in making fast and accurate decisions.

Removing fewer items from luggage means fewer trays per passenger, which speeds up divesting and — in combination with the impressive belt speed of 0.2 m/s — the throughput and the overall process. The result is improvements to both the security outcome and operational efficiency.

ADDRESSING CRITICAL ISSUES

Computed Tomography (CT) technology is taking passenger checkpoint screening to a completely new level. As well as delivering

EASY INTEGRATION

The HI-SCAN 6040 CTiX offers easy integration into existing Smiths Detection and third-party checkpoints, supporting the development of open architecture solutions.

Transforming the screening equipment into a single, intelligent solution, through integration into an advanced screening and management platform such as Checkpoint.Evo^{plus}, not only produces essential operational data, but also supports functions such as centralised screening and directed search.

Checkpoint.Evo^{plus} provides the real-time data needed for efficient resource allocation and to identify and remove bottlenecks in the screening process.

With the Model S of HI-SCAN 6040 CTiX and its reduced width and weight, applications with space limitations can be better served.

AWARD WINNING INTERFACE

The user interface of the HI-SCAN 6040 CTiX received the 2020 Red Dot Award for fast and intuitive 3D image evaluation.



Fast, accurate operation enhances security and shortens queues.

OPTIMISED POWER SUPPLY AND CONSUMPTION

The HI-SCAN 6040 CTiX comes with a single-phase power supply 120 / 230V, enabling easy installation at airports in the USA, the APAC region and around the world.

The low energy consumption of 2.8 kVA allows for savings of anything between 5% to 20% when compared to alternatives.

LOW NOISE – ZERO VIBRATION

Checkpoints are often located alongside each other which can be very noisy. The HI-SCAN 6040 CTiX alleviates the problem with its very low noise level of under 60dB(A) plus zero vibration, helping to maintain a more pleasant environment for both passengers and staff.



EASY
INTEGRATION



AWARD
WINNING
INTERFACE



LOW
POWER
CONSUMPTION



LOW NOISE
– ZERO
VIBRATION

ISO 27001 certification and annual audits ensure Smiths Detection product development, production and business processes consistently follow the highest information security standards, ensuring customer data and assets are well protected from cyber-attacks.

EXTENSIVE CERTIFICATIONS

The HI-SCAN 6040 CTiX and the updated Model S use rotating CT, the only scanner technology to gain ECAC EDS CB C3 approval and also the only one likely to meet future regulatory requirements. In addition to both models achieving C3, they are also STAC, ENAC and DFT approved; and have TSA APSS v6.2 Level 1 certification since May 2025.



INFORMATION SECURITY BEST PRACTICES

The HI-SCAN 6040 CTiX also includes the latest data security features and controls including operating system hardening and a host-based firewall to block unwanted network traffic. TripWire security controls monitor system integrity, raising an alert if unauthorised changes are detected. Sensitive data is also protected by strong encryption algorithms. Individual certificates are created to enable access to the software by technicians.



EXPERTISE AND EXPERIENCE

Airports, airlines and authorities around the world trust Smiths Detection to deliver best-in-class aviation detection and screening technology. We have over 70 years experience and the largest installed base of systems worldwide — the HI-SCAN 6040 CTiX is the market leading checkpoint CT scanner with over 2000 units sold.



MORE TO COME

With the list of prohibited items detected by iCMORE expanding to include, for example, sharp and blunt objects, these algorithms will facilitate a more automated screening process in the future. Especially when combined with automatic explosives detection systems, such as the HI-SCAN 6040 CTiX, they can enable "alarm-only viewing" of X-ray images at checkpoints. In addition to increasing security levels, this will also reduce operational expenditure and improve throughput.

→ GET IN TOUCH

If you would like to know more about HI-SCAN 6040 CTiX and how we help make the world a safer place, please get in touch at: aviation-solutions@smithsdetection.com