



The Best of Both Worlds

The power of dual energy CT delivers the best possible detection capabilities with a very low false alarm rate (FAR). It provides the transmission view (look through) to uncover objects hidden in organic substances; surface rendering to understand layers and shapes; and can recognise surface anomalies. Producing even higher resolution images to uncover items such as wires, detonators or energy sources, a dual-view line scanner supports fast and secure on-screen resolution. Together, the exceptional 3D and 2D image quality offers the best of both worlds. Also, with two scanners there is inherent self-redundancy, ensuring continued operation if one goes down.

The SDX 10080 SCT is a modular system offering the option to have either the CT scanner alone or complete with the line scanner.



The SDX 10080 SCT is more than a scanner: It's a modular platform, designed to adapt seamlessly as threats evolve and regulations advance.

Susanne Kruppa
Senior Product Manager, Smiths Detection

SDX 10080 SCT

Smart · Efficient · Sustainable

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Setting new standards
in hold baggage and
air cargo screening



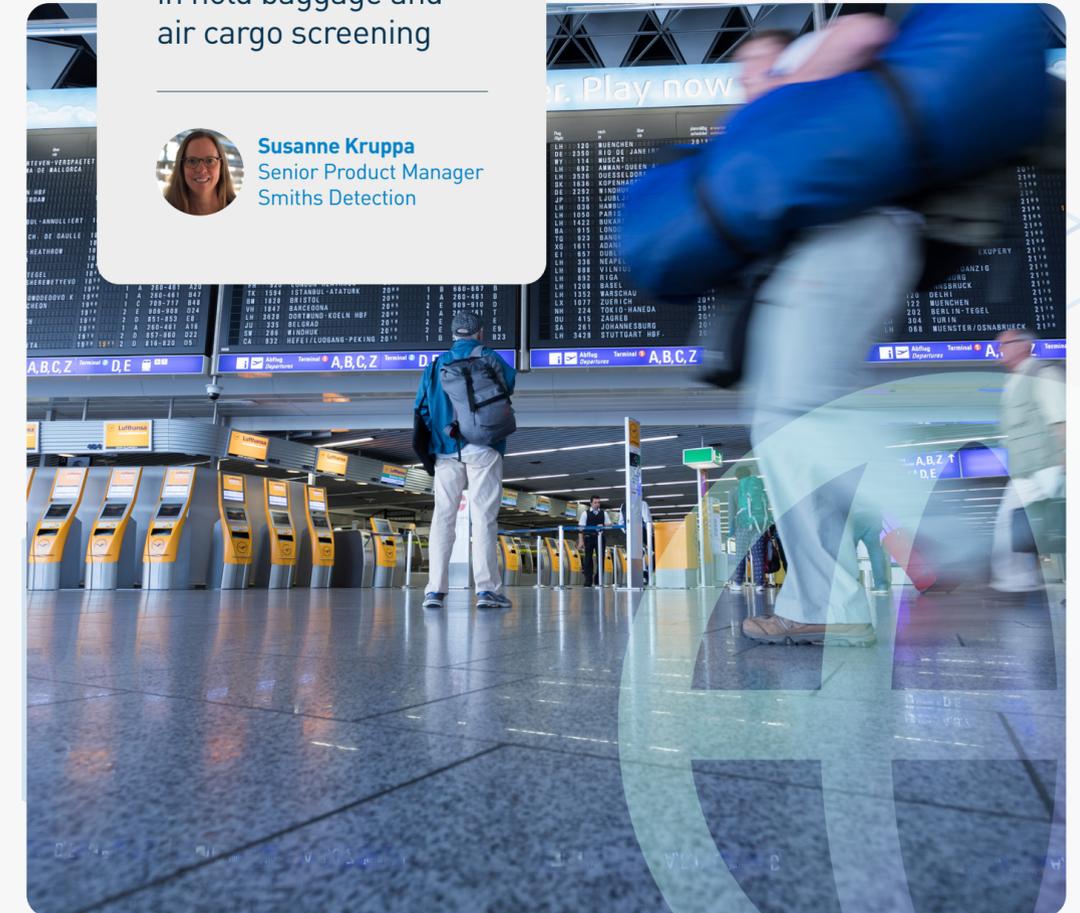
Susanne Kruppa
Senior Product Manager
Smiths Detection

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



Technology That Keeps Pace with Change

With more than 2,000 EDS Standard 3 systems deployed worldwide, Smiths Detection has set the benchmark for hold baggage and air cargo security screening. This unparalleled experience and know-how have now been leveraged to develop an evolutionary new solution.

As air passenger traffic continues to grow amid ever complex threats, the industry is demanding solutions which not only increase security but also drive operational efficiency and throughput; cope with emerging risks; and adapt to meet future regulatory standards. Systems need to be intelligent and efficient to maintain high levels of accuracy without slowing the screening process.

“ Airport security is entering an era where adaptability matters as much as detection. Future-ready screening must deliver resilience, efficiency and passenger confidence; helping airports stay ahead of evolving threats and rising demand.



VP Richard Thompson
Vice-President, Portfolio,
Innovation & Digital
Smiths Detection

Future-proof Threat Detection

The SDX 10080 SCT delivers tomorrow’s hold baggage and air cargo screening technology and is the first system built on what will now be the common EDS platform for new Smiths Detection products. It was designed to meet current ECAC and TSA regulations and also support future potential standards such as ECAC Standard 4 or TSA 9.0 – where compliance may well require a combination of CT and X-ray diffraction technologies.

More automation will reduce human error, increase security and ensure screening technology stays one step ahead of the

threats. Multiple algorithms and iCMORE object recognition software can be deployed and operate in parallel to detect regulated explosives plus unregulated items such as weapons. Effective algorithms maximise detection reliability and minimise false alarms.

Detection of emerging threats will be integrated via software changes but as and when required, the platform is also ready to incorporate new technology.

Efficiency Without Compromise

Productivity is maintained via superior detection with the lowest FAR in its class; and the shortest on-screen resolution times – plus a series of smart engineering adaptations.

An innovative curtain concept minimises the risk of items getting stuck and interrupting screening.

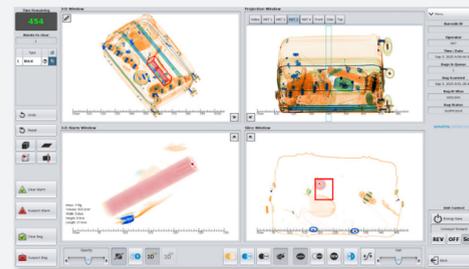
The conveyor operates at 0.5 m/s with a continuous belt and stronger motor to carry higher weights and limit tracking errors. Items measuring up to 100x80cms pass easily through the large square tunnel and dynamic calibration ensures a continuous flow of bags. Add smaller bag spacing and the result is a throughput capability of over 1,800 items per hour.

A refined, more reliable, air-based cooling system reduces both downtime and energy consumption. Wheels instead of bearings reduce overall weight and complexity.

Installation has been simplified by the compact and cost-efficient modular design plus fast mechanical and electrical connection. Weight and footprint have been minimised: length 4570mm (5453 with line scanner); height 2160mm to accommodate lower ceilings; and at 2200mm, one of the lowest widths available to enable flexible positioning for the conveyor lines.

The CT model will drop cleanly into the same space as an existing Smiths Detection CTX scanner and the combined CT + line scanner option fits into the XCT footprint.

Additional revenue streams can be generated by optimising the value of screen images and the ability to detect unregulated items. It is less costly and more efficient for other airlines and customs operations at both departure and destination locations to buy images created at source.



Incent.view: Workstation

- Fast and easy image analysis through various image-manipulation functions
- Best-in-class 3D and 2D image quality
- Intuitive operation

Modular by Design Built to Adapt

The SDX 10080 SCT platform was built for today and tomorrow. It is ready to expand its capabilities and adapt to future requirements – handling higher throughputs; detecting a wide range of additional threats; and reducing TCO with an expanded lifecycle enabled by smart system design and superior materials.

To help reduce the CO2 footprint, overall energy consumption is low (5.3kW on average over 24 hours) – the air based cooling makes a significant contribution to this reduction.

A Safe Investment

Powerful imaging, lean system architecture and modular adaptability deliver new standards in performance, reliability and operational efficiency. The SDX 10080 SCT can handle current challenges and is more than ready to tackle what tomorrow brings – it is a very safe investment.



SDX 10080 SCT – A Sustainable Solution

	Reduced Energy Consumption	Lower carbon footprint / Meet climate targets
	Higher Conveyor Speeds → Growth with PAX / Cargo volume growth	Expand product lifecycle
	Re-Use of Core: Adopt Platform of Today to Future Requirements → SW upgrade only for upcoming Standards (ECAC 3.2, TSA 7.3) → Expand product capability based on the existing platform (e.g. X-ray diffraction)	Expand product lifecycle
	Additional Item Detection → Expand capabilities through algorithms for e.g. Dangerous Goods	Multi use of images to reduce demand of additional systems

REDUCE CONSUMPTION OF RESOURCES THROUGH SMART SYSTEM DESIGN AND EXPANDING CAPABILITIES