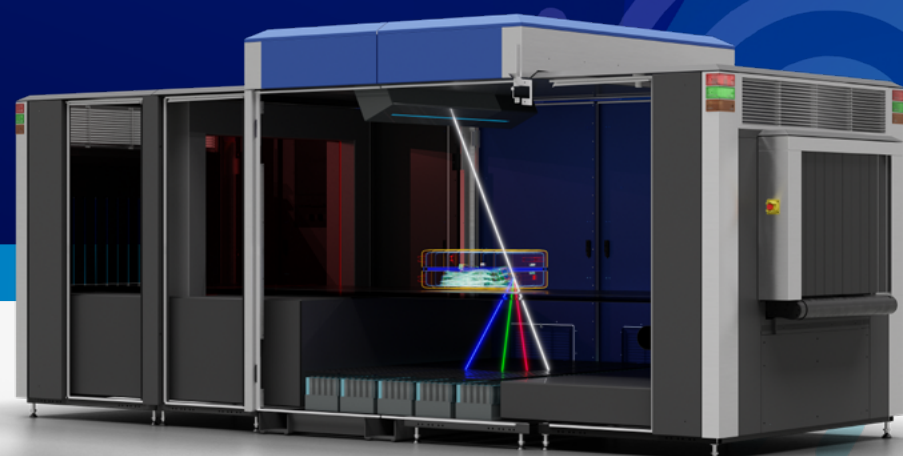


Fast Forwarding Air Cargo

→ X-ray Diffraction delivers game-changing automatic alarm resolution



SDX 10060 XDi

Operations fast forwarding small parcels and mail are constantly under pressure to screen huge volumes quickly and efficiently. Typically, Explosives Detection Systems (EDS) automatically clear 70-80% of items at Level 1, meaning 20-30% alarmed images are sent to analysts for on-screen resolution at Level 2.

Using the latest X-ray Diffraction (XRD) technology, the groundbreaking Smiths Detection SDX 10060 XDi transforms this process by automating up to 80% of these Level 2 decisions — in turn, improving both security and efficiency.

Superior Material Analysis

XRD is a well proven, non-invasive, inspection technology offering highly accurate material discrimination and substance identification based on molecular structure. It creates a 'diffraction fingerprint' to differentiate between

materials — even those with very similar densities.

Impressive Advantages

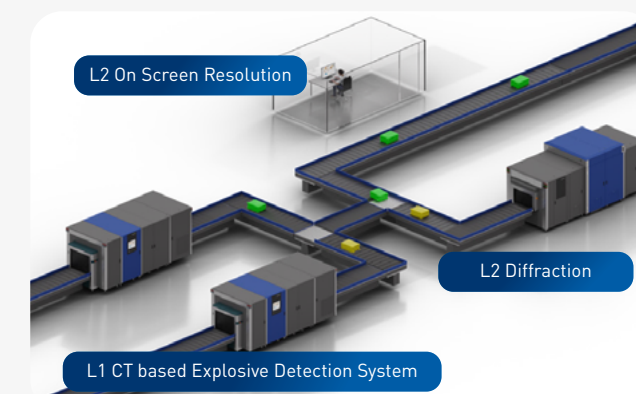
- Automated alarm resolution at level 2
- Minimized overall FAR
- Optimised staff resources
- Increased productivity
- Decreased operational costs
- Superior material analysis
- Highly accurate substance identification
- Detection of changing compounds
- Mitigates 'homemade explosives' threat
- Complements existing technologies

This precise and orthogonal* approach makes it particularly suitable for resolving alarms generated at Level 1; and detecting constantly changing powder, liquid or solid compounds such as 'homemade' explosives and narcotics.

Optimum Operational Efficiency

For automated alarm resolution, the SDX 10060 XDi is easily integrated into material handling systems alongside EDS scanners.

Each integrated diffraction scanner can receive alarm queries from several Level 1 systems. By automatically clearing false alarms or benign objects, the need for Level 2 on-screen resolution, hand searches, trace detection or other manual inspections is substantially reduced. Overall false alarm rates have been shown to fall from 20% to 4%.



This not only addresses the challenges of staff shortages but also improves overall efficiency,

*ECAC Implementing Decision C (2015) 8005 permits the use of screening equipment for EDS alarm resolution that is at least of the same standard but based on a different (orthogonal) technology such as X-ray diffraction.

reducing operating costs and the chance of human error.

Future Proof

The SDX 10060 XDi takes security to new levels. It is designed to meet ECAC 3.1, 3.2 and TSA 7.3 and is also one of the few technologies likely to detect evolving threats and therefore meet future regulatory standards. The detection library will evolve over time ensuring your operation remains future-proofed.

Additional Benefits and Applications

With its impressive material specific detection capabilities, XRD technology can also be very effectively deployed to automatically detect narcotics.

Conventional X-ray Transmission and Computed Tomography (CT) scanners have proven very effective in finding explosives and more recently, other targeted items.

However, an additional approach is needed to meet the unique challenges presented by narcotics. Inconsistencies in shape and form and also physical characteristics when drugs are cut with other substances, all combine to make narcotics detection very complex.

Delivering highly effective narcotics detection with a very low false alarm rate, the SDX 10060 XDi takes the fight against mugging to new levels.

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www.smithsdetection.com/diffraction