## smiths detection

# SDX 10060 XDi

Utilising innovative X-ray Diffraction technology for superior material analysis



#### **Feature Highlights**

- Exceptional material specific detection, including homemade explosives
- Increased efficiency thanks to automated resolution for vast majority of alarms
- Overall FAR significantly reduced
- Reducing the human factor, while decreasing operational costs
- Future proof detection algorithms extend scope
- Accurate and adaptable identification of narcotics and other contrabands

#### Compliance

• The SDX 10060 XDi was designed to meet ECAC Standard 3.1/3.2 and TSA 7.2 plus future regulations. Certification is underway.

#### Elevated standards of detection

Leveraging the latest X-ray Diffraction (XRD) technology, the ground-breaking Smiths Detection SDX 10060 XDi offers highly accurate material analysis and substance identification. It creates a 'diffraction fingerprint' of molecular structures to differentiate between materials – even those with very similar densities. This makes it particularly suited to detecting constantly changing compounds in powder, liquid or solid forms, such as 'homemade' explosives and narcotics.

It delivers new levels of security and efficiency for several key use cases. Firstly, the precise and orthogonal approach to detection makes it ideal for resolving alarms generated by upstream explosives detection systems – particularly high volume, high speed, applications such as multi-level hold baggage screening or fast-forwarding parcels and mail.

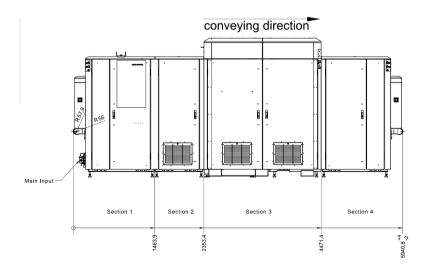
When integrated into material and baggage handling systems, a single SDX 10060 XDi can receive alarm queries from several Level 1 scanners. This substantially reduces the need for on-screen resolution by security operators, hand searches, trace detection or other manual inspections by automatically clearing false alarms. In turn, it generates substantial operational cost savings and minimises human intervention and error.

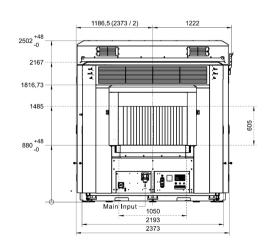
The compliance standards also make the SDX 10060 XDi suitable for Level 1 screening at smaller airports handling lower volumes of baggage.

Additionally, the impressive material specific detection capabilities can support custom agencies by transforming inbound screening for a range of prohibited items including narcotics. As contraband detection is not subject to regulatory approval, the detection library can be adapted and increased as requirements change.

Diffraction is one of the few technologies likely to be able to meet the requirements of new regulatory standards responding to tomorrow's evolving threats, helping you to future proof your operations.

Main features	
Tunnel dimensions	1050 [W] x 605 [H] mm
Max. object size	1000 [W] x 600 [H] mm
Conveyor height	880 mm
Belt speed (adjustable)	approx. 100 – 200 mm/s (depending on scanning mode)
Max. conveyor load	50kg/m² (110lbs/m²)
(evenly distributed)	250kg (551lbs) total
X-ray generator	
Diffraction part • Cooling	180 kV • hermetically sealed, water cooling
Beam direction (diffraction part)	fan-shaped (top to bottom)
Line scanner part • Cooling	160 kV • hermetically sealed, oil bath
Beam direction (line scanner part)	view A: diagonal (bottom to top) • view B: diagonal (from side)
Image quality (both views)	wire resolution: AWG 36 • steel penetration: 30 mm
Installation data	
Radiation data	Meets all applicable laws and regulations with respect to X-ray emitting devices
CE conformity	In compliance with requirements of 2006/42/EC, 2014/35/EU, 2014/30/EU
Sound pressure level	< 65 db (A) (at 1 m distance)
Operating / storage temperature	5°C - 35°C / -20°C - +60°C
Humidity	20% - 90% (non-condensing)
Power supply	400 V AC ± 10% • 50 Hz ± 1%
Power consumption	approx. 18 kVA (operating)
Protection class system	IP 33
Dimensions • Weight	5945 (L) x 2360 (W) x 2550 (H) mm • approx. 8800 kg
Mechanical construction	steel construction with steel panels, mounted on roller castors (except for diffraction part)
	standard color(s): diffraction part RAL B11-W1 (blue), other parts RAL 7016 (dark gray)





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