

Agilent Insight Series Alarm Resolution Systems



The Agilent Insight Series alarm resolution systems are built on the benefits of the widely deployed Agilent Insight100, Insight100M, and Insight200M systems. The Insight Series systems consist of the Agilent Insight300M, which is a liquid explosive detection system, and the Agilent InsightBLS, which is a bottle liquid scanner.

The Insight Series systems use spatially offset Raman spectroscopy (SORS) to identify threats through opaque or translucent containers. For metal containers, the Insight300M uses a specially designed gravimetric mode, allowing full coverage of items passing through an airport.

The Insight Series systems have been designed to be easy to operate. A container to be scanned is placed inside the chamber, and the door is closed. If the item is not placed correctly, the user is alerted, and the door will not close to allow the scan to start. Once placed correctly, the system scans for approximately 10 seconds. If the item is clear, the door opens. If the item alarms in SORS mode, the threat is identified and displayed on the screen, and an alarm is sounded. Alternatively, if the item has not been screened correctly, the system will alert the user with the text "Unable to Screen."

The base platform of the Insight Series significantly improves upon the screening capability of the previous Insight200M to include the screening of liquids, solids, powders, and gels (with a software update and regulation pending).

Instrument specifications

Parameter	InsightBLS	Insight300M
Electrical Power	100 to 240 VAC \pm 10% single phase (live, neutral, and earth), < 200 W	100 to 240 VAC \pm 10% single phase (live, neutral, and earth), < 200 W
Weight	25 kg (\pm 1kg)	25 kg (\pm 1kg)
Mechanical	Width: 562 mm Height: 538 mm Depth: 422 mm (no PIV fitted), 445 mm (PIV fitted)	Width: 562 mm Height: 538 mm Depth: 422 mm
Surface Required	Flat and level; dirt, dust, and liquid-free	Flat and level; dirt, dust, and liquid-free
Support Required	Each system weighs 25 kg; support must be suitable	Each system weighs 25 kg; support must be suitable
Operating Temperature Range	0 to 40 °C (–7 to 49 °C storage)	0 to 40 °C (–7 to 49 °C storage)
Operating Humidity Range	0 to 95% noncondensing (0 to 98% storage)	0 to 95% noncondensing (0 to 98% storage)
Containers Where Contents Can be Screened	Clear plastic, opaque plastic, clear glass, frosted glass, colored glass, and non-foil-lined tetrapaks	Clear plastic, opaque plastic, clear glass, frosted glass, colored glass, non-foil-lined tetrapaks, plastic pouches, steel cans, aluminum cans, foil-lined tetrapaks, cartons, foil pouches, wine boxes, and metal bottles. Note: It is only possible to screen metal containers using the gravimetric mode.
Minimum Fill Level	10 mm depth of material required (absolute minimum)	10 mm depth of material required (absolute minimum)
Minimum Container Volume	No minimum, provided that 10 mm depth of liquid is present (for example less than 100 mL)	No minimum, provided that 10 mm depth of liquid is present (for example less than 100 mL)
Maximum Container Volume	Any container that fits in the inspection chamber and is placed in contact with the detection cone (for example, typical 3 L bottles) can be screened	Any container that fits in the inspection chamber and is placed in contact with the detection cone (for example, typical 3 L bottles) can be screened
Maximum Container Weight	5 kg	5 kg

www.agilent.com/chem/insight-series

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