

Maximize Safety and Efficiency at the Checkpoint

Agilent Insight Series advanced alarm resolution systems



Securing today's threats and future changes



The Agilent Insight Series alarm resolution systems are designed to screen all containers, including metallic types, with best-in-class detection performance, low false alarm rate, and without the need to open containers to identify threats.

The Insight Series systems offer cutting-edge alarm resolution solutions designed to meet both current and future regulatory standards. This innovative range includes:

- **Agilent Insight300M Liquid Explosive Detection system:** Equipped with advanced technology to screen both metallic and nonmetallic containers
- **Agilent InsightBLS bottle liquid scanner:** Specially designed for screening within nonmetallic containers

Built to comply with today's stringent regulations—including ECAC Standard 3 Type A and B, and TSA BLS Standard 2.3—the Insight Series ensures robust performance and regulatory compliance. At the heart of the Insight Series is spatially offset Raman spectroscopy (SORS)—a unique, powerful technology that enables precise identification of substances through containers. This not only enhances operator safety but also delivers unmatched threat detection accuracy.

Designed with adaptability in mind, the Insight platform is future-proof—capable of evolving with changing regulations and emerging threats through seamless software updates. By rapidly and accurately resolving alarms from a primary screening system (such as X-ray or CT systems), the Insight Series helps airports maintain high passenger throughput while minimizing delays. Its intuitive user interface reduces training requirements and supports confident, efficient operation.

Key benefits:

- Best in-class threat detection
- Low false alarm rate
- Operator-friendly design
- Future-ready platform
- Enhanced passenger flow and operational efficiency



The Insight Series empowers security teams with the tools they need to ensure safety, compliance, and performance—today and tomorrow.



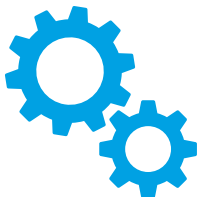
A scan time of less than 10 seconds



Increased detection capability with the possibility of expanded libraries



Barcode scanner to track false alarms and further improve the system



Increased efficiency and reliability



Accurate screenability determination



Low false alarm rate: on average 0.4% achievable in nonmetals

More than alarms—real threat intelligence

Optimizing both safety and efficiency at the checkpoint means operators need dependable answers quickly, precisely, and simply. The Insight Series has a third-party-verified high detection rate and provides material-specific detection—turning alarms into identification with complete threat visibility. This unique feature allows operators to see the full picture of the potential threat they're dealing with, so they can make decisions and act fast when it matters.

Low false alarm rate

By utilizing complex algorithms, the Insight Series has been designed to achieve the lowest possible false alarm rate—which, in a nonmetallic container configuration, can be as low as 0.4%.

The false alarm rate may be optimized with the help of an integrated barcode scanner. The barcode scanner—used with airport approval—helps reduce false alarms by identifying recurring issues, revalidating items, and refining detection algorithms through certified updates, ensuring smoother operations and greater efficiency.

Low operator burden

The Insight Series scans containers in 6 to 10 seconds, enabling operators to efficiently screen items and maintain high passenger throughput. The Insight Series is designed to alert an operator if an item has not been screened correctly, further reducing the need for operators to remember complex Concept of Operations (CONOPs).

Future-proof security

The Insight Series is built for the future. Leveraging SORS, the system can detect a wide range of liquids, aerosols, gels, solids, and powders through various opaque containers. Its core threat library complies with ECAC, TSA, and TAG regulations, and optional libraries—such as acids, flammable substances, and select fuels—can be added as needed. This modular approach ensures the system can be upgraded overtime to meet evolving regulatory requirements. As our understanding of threat materials evolves, so does the Insight Series.

The system is also designed to meet the ever-changing cyber security requirements that face airports today. It uses the NIST 800-53 standard as its base and utilizes OWASP best practice standards to ensure it can meet the needs of cyber security in the future.



Identify the material, understand the threat, respond with confidence

The Insight Series is designed for smart, fast threat identification that helps you confidently take action when it matters most. Built with an intuitive interface, the scanner minimizes training requirements and reduces operator burden. The operator simply places an item in the chamber, closes the door, and receives one of three results:

1

Clear:

When no threat is present, the system provides fast, simple clearance to keep lines moving and passengers happy.

2

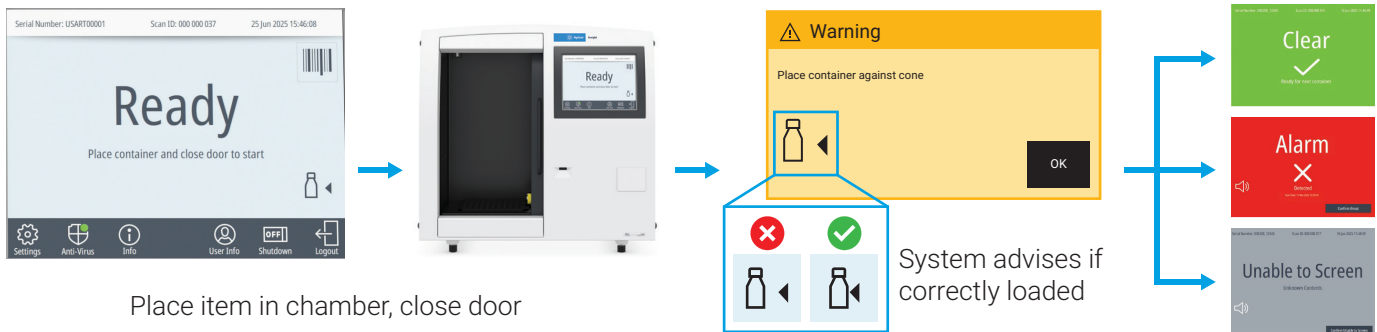
Alarm:

The system clearly detects the threat and identifies the material—so operators understand exactly how to respond.

3

Unable to screen:

The system alerts the user if the item cannot be screened.



Flexibility for your needs

Offering ultimate application versatility, the Insight Series is suitable for deployment at any security checkpoint, from large-scale aviation security to smaller-scale concerts, museums, and public buildings.

The system effortlessly screens fully and partially filled containers, ranging from 10 mL to 5 L. Alternatively, utilizing a vial holder it can scan vials to complete Type-A or Small Bulk analysis as per regulatory requirements.

Screen faster, stay safer

Discover low-disruption screening that keeps lines moving—without compromising on safety.



Increased security:

- Identify threats confidently
- Enhance detection capabilities
- Respond quickly to emerging threats

Elevate passenger experience:

- Facilitate potential lifting of restrictions
- Reduce wait times at checkpoints
- Reduce passenger stress and barriers to travel

Enhance operational efficiency:

- Increase passenger speed and throughput
- Ease burden on operators
- Reduce costs

Comparing the Insight Series systems



Feature

Insight300M

InsightBLS

| Feature | Insight300M | InsightBLS |
|------------------------|-------------|------------|
| Metals Screening | Y | N |
| Networked | Y* | N |
| Cyber Security | Y | Y |
| Data Export | Y | Y |
| Upgradable Detection | Y | Y |
| Password Security Mode | Y | Y |

*Available in 2026

Do you know the true impact of your false alarms?

False alarms don't just slow your checkpoint—they multiply operational costs.

Every unnecessary alarm pulls staff away from key tasks, disrupts the flow of passengers, and increases overall screening time. With the right technology, you can significantly cut down these interruptions and keep operations running smoothly.

Primary screening: CT scanner triggers an alarm

Carry-on contains a liquid bottle



Alarm resolution

Scanned with **Insight**

Low false alarm rate and fast, accurate ID reduce repeat scans and escalation



Operational impacts

- Passengers cleared quickly
- Shorter staff time required
- Lower checkpoint operational costs

Scanned with low-cost LEDS or BLS

Higher false alarm rates trigger repeat scans and unnecessary escalation



Operational impacts

- Bottlenecks, queues, and delays
- Increased staff time to resolve alarms
- Higher checkpoint operating costs

Find out how much false alarms could be costing you by using the False Alarm Rate Calculator [here](#).

Security that works smarter, not harder

The Insight Series is the future of advanced alarm resolution screening. Large volumes of liquid can be screened nondestructively—enabling materials to be scanned quickly and safely cleared at the checkpoint. Designed to be flexible, easy to use, and applicable to a range of current screening issues, the Insight Series can enhance security in a range of application areas. Learn more in the following application notes.



Family screening

Travelling with children, especially during the holiday season, can be challenging, particularly when navigating the rules and regulations around permitted items. Many airports have dedicated family lanes to help ease the security process for families. With a near to 0% alarm rate when scanning milk for babies, the Insight Series can reduce travel stress even further, improving passenger experience and maintaining high passenger throughput.

Read more on the study of false alarm rates for mother's milk [here](#).



Screening larger volumes

Restrictions on liquids are being lifted, allowing passengers to carry more than the 100 mL limit. This means that more passengers carrying bottled water are likely to pass through a checkpoint. The ability of the Insight Series to screen water within 10 seconds with no false alarms presents advantages for both passengers and operators.

Read more about this capability [here](#).



Medical supplies

Traveling with essential medications can be a source of concern for both passengers and security staff. The Insight Series streamlines this process with a seamless workflow that enables accurate screening of various medical items—achieving a 0% false alarm rate. This means faster, hassle-free security checks and greater peace of mind for travelers.

Read more about how the Insight Series can efficiently screen medical supplies [here](#).



Changing regulations

The Insight Series is designed not only to enhance operations today but also to evolve with tomorrow's regulatory landscape. Its flexible architecture allows for seamless upgrades, ensuring compliance with emerging standards without disrupting existing workflows.

Whether you're preparing for upcoming legislation or future-proofing your investment, the Insight Series delivers long-term value and adaptability. Learn more about how the Insight Series supports regulatory compliance and future capabilities [here](#).

Reliable support for confident operations



From Insight to Outcome

Quick start training

Even though the Insight Series is designed to be as intuitive as possible, Agilent offers training sessions to help your operators get the most out of the system. This ensures smooth onboarding and optimized performance from day one.

Preventive maintenance

Unexpected downtime can lead to delays, increased costs, and reduced passenger satisfaction. Implementing an annual expert service like Agilent CrossLab Preventive Maintenance can keep your equipment running at peak performance, helping you avoid disruptions, maintain operational efficiency, and save costs in the long term.

Rapid onsite repairs

Even your best systems may need attention occasionally. With Agilent CrossLab Gold and Silver service plans, Agilent provides exceptionally fast onsite response times and expert repairs to minimize your downtime and restore operations quickly.

Peace of mind, guaranteed

From high-quality training to expert maintenance and emergency support, Agilent's expert team is here to ensure your checkpoint operations run smoothly—today and into the future.

Learn more:

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Buy online:

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Get answers to your technical questions and access resources in the Agilent Community:

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