

Battelle LS10™

LIQUID THREAT DETECTION SYSTEM



The LS10™ is a bottle liquid scanner that distinguishes threat liquids, aerosols, and gels (LAGs) from benign substances and alerts security personnel to suspicious contents quickly and accurately.

Its compact size and ease of operation allow for the LS10's use in varied security venues. For security check points, this new technology enables more efficient processing of liquids with high detection success and low false alarm rates.

LS10 CAPABILITY

The LS10 is calibrated to detect threat flammables, acids, oxidizers, explosive precursors and explosive LAGs in opened and unopened plastic and glass containers. Glass and plastic bottles may be clear, colored or opaque. The LS10 also interrogates threats in metal, paper and ceramic containers. All in 2 to 5 seconds.

LS10 TECHNOLOGY

Unlike other liquid scanners that rely on and are limited by single technology analysis, the LS10 employs dual sensing modalities of a radio frequency technology transmitting a low-power RF pulse and an ultrasonic subsystem that generates a short ultrasonic pulse. An intuitive user interface guides security personnel through each required step.

LS10 UPGRADABILITY

The LS10 provides for software upgrades via standard computer USB interfaces. As threat and stream-of-commerce liquids are introduced, LS10 libraries can be updated to maintain the highest level of performance and customer confidence.

Key features

- Dual technologies heighten detection capabilities
- Screens virtually the entire stream of commerce, including metal, ceramic and paper
- Accurate threat detection in clear, colored and opaque containers
- Efficient processing of passenger and employee liquids with high detection capability and low false alarm rate, with total analysis provided in 2 to 5 seconds
- Ease of operation facilitates training and produces consistent operation and accurate results
- Upgradable platform design with small footprint
- Visible and audible signals when threat liquid is detected
- Open design accommodates any container height
- Designed and produced under ISO 9001:2008
- LS10 UL and CE registered product

The LS10 is in use at airports and other facilities around the world, providing transportation security, building security, anti-smuggling/drug detection, and customs and duty-free shop screening.



BATTELLE

LS10 Technical Specifications

Technology:	Radio frequency and ultrasonic wave interrogation
Weight:	37 pounds (17 kilograms)
Size:	Table-top footprint of about 20" x 21" x 18" tall (51 cm x 53 cm x 46 cm tall)
Sample interface:	Interrogates liquids, aerosols, and gels in glass, plastic, metal, ceramic and paper containers non-invasively. Total analysis time is 2 to 5 seconds.
Safety declaration:	Emits no ionizing radiation and does not produce any laser light
Operational ranges:	Temperature ranges from 32 °F (0 °C) to 122 °F (50 °C). Humidity ranging from 0% to 98%. Altitude ranging from -300 feet (91 meters) below to 11,483 feet (3,500 meters) above sea level.
Storage ranges:	Temperatures ranging from 19 °F (-7 °C) to 122 °F (50 °C). Humidity ranges from 0% to 98%. Altitude ranges from -300 feet (91 meters) below to 11,483 feet (3,500 meters) above sea level.
User interface:	Touch-screen application in a familiar computer environment at comfortable desktop height
Alarms:	Signals a detection event with visible and audible signals
System Test:	Calibrated at the factory, but a system test is recommended at start-up and after every 24 hours of operation. System test is complete in less than 2 minutes.
Power:	110 to 240 VAC at 60 Hz and 50 Hz
External data interface:	USB support, network compatible
Updates and data:	USB allows software updates and data downloads

Every day, the people of Battelle apply science and technology to solving what matters most. At major technology centers and national laboratories around the world, Battelle conducts research and development, designs and manufactures products, and delivers critical services for government and commercial customers. Headquartered in Columbus, Ohio since its founding in 1929, Battelle serves the national security, health and life sciences, and energy and environmental industries. For more information, visit www.battelle.org.

800.201.2011 | solutions@battelle.org | www.battelle.org

Battelle and its logos are registered trademarks of Battelle Memorial Institute. © Battelle Memorial Institute 2017. All Rights Reserved.

ID 461 01/17

