



# LS10

## LIQUID SCANNER

Sellex and Battelle, one of the world's largest independent Research & Development organisations, have joined forces to develop a first-of-its kind technology to safely, quickly and accurately detect threat liquids.



The LS10 is a bottle liquid scanner that is calibrated to detect threat flammables, acids, oxidizers, explosive precursors and explosive compounds in opened and unopened plastic, glass, paper, tube and metal containers. Glass and plastic bottles may be clear, coloured or opaque.

### **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 generating a short ultrasonic pulse. With dual sensing technology the detection capabilities of the LS10 in terms of threat materials and container types are significantly heightened and false alarm rate's significantly reduced.

### **LS10 Dual Sensing Data Fusion**

Upon completion of the RF & Ultrasonic tests the data sets from both tests are combined and analysed via a proprietary data fusion process.

### **LS10 Ease of Use**

An intuitive Graphical User Interface (GUI) on an embedded colour touchscreen guides security personnel through each required step. Upon completion of the test the hazard level of the containers contents is determined; the LS10 signals threat detection results in the form of either a red flashing screen, with threat material categorisation and audible sound for a hazardous liquid or a green screen for a benign liquid. With minimum training the security personnel can complete a test in 10 seconds or less, ensuring fast and accurate passenger processing, minimising queuing at screening checkpoints.

### **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.



### **LS10 Summary**

- **Power of Two – Dual sensing technologies heighten detection capabilities**
- **Accurate threat detection in clear, coloured and opaque plastic & glass containers and metal containers in less than 10 seconds.**
- **Efficient processing of passenger and employee liquids with high detection capability and low false alarm rate.**
- **Ease of operation facilitates training and produces consistent operation and accurate results.**



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