

## Introducing the Game Changing MobiLab® BLS Bottled Liquid Scanner for Security Checkpoints



**Revolutionary. Effective. Unmatched.**

### Innovative Measurement Methods

One Resonance Sensors offers an innovative and effective solution for inspection of bottles of any shape and opacity – the MobiLab® BLS liquid explosive detector. Using advanced MRI technology, the scanner introduces a compact and simple answer to security checkpoint needs.

The MobiLab® BLS finds and sorts hazardous liquids, presenting a simple CLEAR or ALARM message in seconds. With a unique bulk measurement method, the scanner does not use ionizing radiation or lasers. The MobiLab® BLS has no moving parts, resulting in long product lifetime.

**For more information, visit our website at [detect-ors.com](http://detect-ors.com)**

Reliable. Compact. Efficient.

# MobiLab<sup>®</sup> BLS

High Performance Liquid Explosive Detection

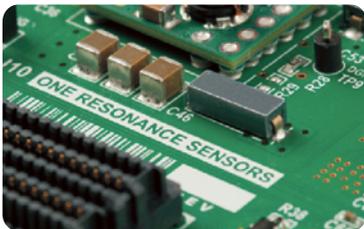


Simple Operation • Effective Detection Technology

The U.S. Transportation Security Administration and European agencies are working to improve the safety and comfort of travelers passing through the world's transit checkpoints. Learn more about how the innovative technology of ORS can help these efforts.

## Revolutionary Approach

Innovative and powerful analytical capabilities to determine element concentration with high precision. ORS uses strong magnetic fields and radio-frequency waves to rapidly characterize liquids.



## Simplified Solution

Extremely Efficient Process



Scan >>> Measure >>> Results

For more detailed information about our innovative solutions, visit the **TECHNOLOGY** section of our website.

## Advanced Technology

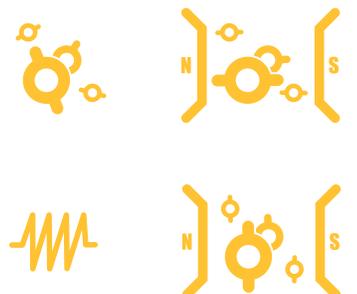
Precise Element Concentration in Seconds

ORS uses Magnetic Resonance methods in innovative ways to offer powerful analytical capabilities.

- ✓ Creation of revolutionary detection, analysis and process control methods
- ✓ Development of top-of-the-line radio-frequency instrumentation
- ✓ Design and fabrication of innovative magnet arrays
- ✓ Introduction of valuable science and technology intellectual property

## Hazardous Liquid Detection Method

If the right amount of energy is supplied to the spin system by a radio frequency wave, the nuclei temporarily move out of the low energy state, which is equivalent to a rotation of the net magnetic moment. In the MobiLab<sup>®</sup> series, that is done by applying a radio-frequency magnetic field, tuned precisely to the resonance frequency of the element being detected. Sensitive electronics measures the signal emitted by the spins, which contains a signature of the liquid being inspected.



# MobiLab<sup>®</sup> BLS Automated Operation



**Fits Most Any Size or Shape Bottle** • **Bottles Can Stay in Packaging**

One Resonance Sensors has developed the MobiLab<sup>®</sup> BLS to screen bottled liquids for the presence of improvised liquid explosives and their precursors.

The MobiLab<sup>®</sup> BLS is based on Magnetic Resonance, a non-invasive screening technology akin to MRI used routinely for medical diagnostics. It is a bulk detection technique, i.e. the cavity in which the container is placed is scanned.

The bottle is placed into the cavity which incorporates a compact magnet. A scan is performed by measuring the response of the bottled liquid to a sequence of radio frequency pulses. Improvised liquid explosives and their precursors generate different signals and hence are discriminated from non-hazardous bottled liquids.

- ✓ **Simple Operation**
- ✓ **Superior Performance**
- ✓ **Compact**

## Product Specifications

### Single-Touch Configuration

**Size:** 52cmx36cmx43cm

**Power:** Input 10 to 28 V DC at 5 A. 100-240 V AC, transformer and power cord included

**Magnet:** Permanent magnet array with passively shielded stray field

**Touch Screen:** 8" TFT Full VGA high-brightness LCD

**Connectivity:** USB and Ethernet

**Temperature of Operation:** 0 C to 50 C

**User interface:** Graphical User Interface with intuitive operation

**Sample Size:** Up to 12 cm outside diameter. No length restriction

**Sample Holder:** Transparent insert to handle small bottles

**Performance:** Meets ECAC requirements. Type B Liquid Explosive Detection Systems (LEDS)



For more information or a risk-free demo contact us at +1-619-501-5750 or visit us at [detect-ors.com](http://detect-ors.com)



Portable  
Analysis Tools

## Revolutionary. Effective. Unmatched.

### Simplified Solution

Extremely Efficient Process



Scan >>> Measure >>> Results



### Compact and Simple

No Need to Remove Bottles  
from Packaging



## Automated Decision Matrix

A simple "Alarm" or "Clear" alert appears to conclude the screening in an average of 8 seconds. The MobiLab® BLS requires minimal user training and maintenance.



## About One Resonance Sensors

We specialize in developing state-of-the-art instrumentation using Magnetic Resonance. Our groundbreaking technology is the gold standard in rapid analysis and detection. Improve your performance and streamline output with revolutionary products built by a world-class team of scientists and engineers.

ORS was created in 2011 around a strong intellectual property base and a team of highly experienced technical and management personnel. ORS has two facilities in San Diego, California – one of the best technology hubs in the US.

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