GENERAL DESCRIPTION:
Based on leading IMS technology, the LCD 3.3 is a light and versatile chemical warfare agent (CWA) and toxic industrial chemical (TIC) detector. LCD 3.3 is an advanced warning device, that alarms to gas and vapour threats detected and identified at or below immediately dangerous to life and health (IDLH) levels, by determining the agent or type, class, concentration and dosage of chemical exposure. It can also be used as a screening and survey device.

TECHNICAL DESCRIPTION:
LCD 3.3 employs ion mobility spectrometry technology.

CONTACT INFORMATION
Smiths Detection
459 Park Ave
Bushey Watford WD23 2BW
globalsales@smithsdetection.com

COST
N/A

Tier Selection
Final tier assignment is based on overall product score.
- Top Tier
- Second Tier
- Third Tier
- Fourth Tier
- Bottom Tier

<table>
<thead>
<tr>
<th>RANKINGS</th>
<th>Biological</th>
<th>Chemical</th>
<th>Radiological</th>
</tr>
</thead>
<tbody>
<tr>
<td>FIELD USE System</td>
<td>N/A</td>
<td>Green</td>
<td>N/A</td>
</tr>
<tr>
<td>MOBILE Laboratory</td>
<td>N/A</td>
<td>Green</td>
<td>N/A</td>
</tr>
<tr>
<td>DIAGNOSTIC Laboratory</td>
<td>N/A</td>
<td>Green</td>
<td>N/A</td>
</tr>
<tr>
<td>ANALYTICAL Laboratory</td>
<td>N/A</td>
<td>Green</td>
<td>N/A</td>
</tr>
</tbody>
</table>

Survey Source
Vendor Supplied Information
System scores are compared across the four scenarios and ranked from highest to lowest.

**Evaluation Criteria**

**Throughput:**
- Detection is instantaneous
- Continuous operation with no defined runs
- System is continuous and provides real-time analysis with no defined tests/samples
- The system or device is currently fully automated
- Device or system is intended for multiple detection assays
- 0-1 solutions, buffer, eluents, and/or reagents
- 2 components
- Less than 5 minutes is required for set-up
- Automatic detection

**Logistics:**
- Very brief (minutes-hours) training and minimal technical skills
- Approximately the size of a soda can
- Less than 1 kg
- Wired connections are available
- System or device uses batteries
- 4-8 hours battery life

**Operations:**
- Can be used from < -21°C to > 42°C (All temperatures)
- Performance is not influenced by relative humidity
- Greater than 3 years shelf life
- Greater than 10 years expected life
- Results cannot be viewed in real-time
- The system or device is currently fully autonomous
- The system software is closed and not available for modification
- The system hardware is closed and not available for modification

**Detection:**
- Possible the system could receive 510K clearance, no current efforts at this time
- Possible the system could receive FDA approval, no current efforts at this time
- Less than 10 µL
- Excellent specificity. System has occasional false alarms under certain conditions (<2%)
- > 1x10⁻³ mg/m³
- 1 ppb-1 ppm
- System currently can identify aerosolized chemical agent
- Possible the system could identify liquid chemical agent