The Xpose contraband detector is a compact, lightweight, rugged, handheld density meter designed to aid law enforcement officials with the detection of hidden objects or compartments.

Frequently, contraband is covertly stored in inaccessible areas, such as car panels, tires, bulkheads, etc., where direct observation is not possible. Xpose gives an indication of contraband concealed in hidden locations. It works by measuring changes in density across the target area. Xpose incorporates a large thallium-activated cesium iodide (CsI(Tl)) detector for better penetration and faster indication of “hits” triggered by an abrupt change in density.

The ruggedized Xpose unit has been designed with an ergonomic grip; anti-scratch detection surface; integrated safety wrist strap; and a large, easy-to-read, illuminated graphical display. It's lightweight (more than 20 percent lighter than other contraband detectors) and designed for ambidextrous operation.

Xpose has three search modes for contraband and a radiation scan mode for detecting sources of radiation in the vicinity. Xpose flexible readout options include a wireless remote display for ease of use in tight inspection locations and a USB port for connection with a computer.

**SEARCH MODES**

Xpose offers three distinct search modes to quickly locate hidden contraband. RAW mode displays the density count rate in both graphical and numeric form. BaseScan establishes a density baseline above which an alarm will sound. ZeroScan presents counts as +/- to the baseline. The operator can quickly toggle between modes with the current mode displayed in the header.

**radSCAN MODE**

In radScan mode, Xpose acts as a radiation detector to alert the user and locate sources of radioactive material. Xpose provides real-time readout of raw counts of detected radiation. Results are shown in graphical and numeric format.

**CALIBRATION**

Xpose uses a fitted calibration block that enables consistent response as the Xpose barium source ages. When calibrated, all units will read +/- 2 percent of each other. The calibration automatically compensates for decay of the source and aging of internal components. The calibration routine runs in under 15 seconds.
## Specifications

<table>
<thead>
<tr>
<th>Dimension</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dimensions</td>
<td>6.5 x 3.25 x 1.75 inches (16.5 x 9 x 4.5 cm)</td>
</tr>
<tr>
<td>Weight</td>
<td>1.9 lbs (865g)</td>
</tr>
<tr>
<td>Display</td>
<td>400 x240 LCD video graphic display</td>
</tr>
<tr>
<td></td>
<td>Pushbutton backpanel light</td>
</tr>
<tr>
<td></td>
<td>Battery status indicator</td>
</tr>
<tr>
<td>Battery</td>
<td>(2) AA alkaline batteries. Up to 40 hours of continuous operation or up to 6 months of stand-by.</td>
</tr>
</tbody>
</table>

**Operational modes**
- RAW: records a numeric value that fluctuates with density
- baseScan: records baseline density then alarms when the base is exceeded
- zeroScan: records baseline density and displays the deviation (+/-) from the base
- radScan: detects raw counts of radiation sources in the vicinity

**Source**
- Barium 133, exempt quantity (not exceeding 10 microcuries, 370 kBq)

**Source Shield**
- Tungsten alloy with spring loaded shutter to insure failure in the closed position. Source indicator to notify user when source is open.

**Detector**
- Thallium activated Cesium Iodide CsI (TI)

**Depth of Reading**
- 7 inches (18 cm)

**Alarm**
- 60 dB, 2.4 kHz, 0.5 sec. audible alert. Alarm trip point auto-adjust to 1 std. dev. + 1 count using 50 db pulses of 0.50 second deviation

**Scan Rate**
- 0.25 seconds per reading

**Environment**
- -5 to 130 F (-20 to +55C)
- IP56 rated

**Accessories**
- Xpose Tools Software Utility
- USB Cable (for PC connection)
- 3.5 mm stereo headset
- Calibration Block
- Holster
- Manual

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### ABOUT LEIDOS

Leidos is a Fortune 500® information technology, engineering, and science solutions and services leader working to solve the world’s toughest challenges in the defense, intelligence, homeland security, civil, and health markets. The company’s 36,000 employees support vital missions for government and commercial customers. Headquartered in Reston, Virginia, Leidos reported annual revenues of approximately $11.09 billion for the fiscal year ended January 3, 2020.

### FOR MORE INFORMATION

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