

LCD 4 XID

TRACE CHEMICAL, EXPLOSIVES AND NARCOTICS DETECTION ADAPTER FOR THE LCD 4



Feature Highlights

- Modifies the detection capability of the LCD 4 from vapours to deposited threats
- The LCD 4 is reverted back to a vapour detector upon its removal from the adapter
- System weight when battery powered is under 2.5 kg
- Supplied with a pouch that protects the equipment and provides storage for all the consumables required on a mission
- Operable when wearing Level A PPE

The XID is a plug-and-play upgrade kit that interfaces with the LCD 4 adding solid and liquid sampling and detection of narcotic, explosive and low-volatility chemical (novichok) traces. The XID adapter is affixed to the LCD 4 without the need for any tools, rapidly providing operators with the ability to perform trace threat detection in the field without compromising the existing vapour detection capabilities of the LCD 4. This significantly expands the detection capabilities of the LCD 4 to allow detection of novel emerging low volatility threats.

The XID uses the field proven Smiths Detection proprietary LCD Ion Mobility Spectrometry (IMS) technology to detect threat traces from a library of more than 20 explosives, narcotics and low volatility chemical agents, providing alarm and identification in around 5 seconds. A handheld probe with a disposable swab is used to sample surfaces, collecting trace quantities of material for analysis. The probe is then inserted into the XID and heated to vaporise the sample. The sample vapour is passed to the LCD 4 IMS for analysis and an alarm and identification result is displayed in around 5 seconds. Sampling and analysis with the LCD 4 XID is simple, robust and provides rapid, accurate results.

The LCD 4 XID is designed to meet the requirements of MIL-STD-810 and is operable while wearing MOPP-IV and Level A personal protective equipment (PPE).

The expanded detection performance provided by the XID adapter significantly extends the capability of the LCD 4 while minimizing the cost, training requirements and other logistical burdens that can result from fielding new equipment.

Smiths Detection offers on-site training, customized preventative maintenance and technical support to ensure its technology functions at peak performance and meets the unique operational needs of customers.

General Specifications

Size	270 x 120 x 70 mm (10.62 x 4.72 x 2.75 in)
Weight	Less than 2 kg (4.4 lbs.) including batteries
Power	Integral rechargeable battery 110/240V AC using PSU (Power Supply Unit)
Battery Life	6 hours when fully charged
Response Time	5 seconds
Maximum Operating Altitude	3000 meters (9843 feet)
Detection Technology	Non-radioactive ionization source Ion Mobility Spectrometry
Spectrometry	
Compounds Detected	Explosives, Narcotics (including fentanyl), low volatility agents (including novichoks)
Accessories	Reference samples and disposable swabs
Data Output	Download to USB memory stick
Operating temperature range	-10°C to 46°C (14°F to 115°F)
Operating humidity range	0 to 100% RH
LCD 4™ Compact, Wearable CWA Identifier and TIC Detector (supplied separately)	Based on leading IMS technology, the LCD 4 is a light and versatile chemical warfare agent (CWA) and toxic industrial chemical (TIC) detector. LCD 4 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. Flexible mounting options allow the LCD 4 to be handheld or clipped to a belt, harness or shoulder strap, to enable the user to undertake their primary role without obstruction.



Slide LCD 4 into XID adapter.



Position XID front cover over top of LCD 4.



Clip front cover in place and power on the LCD 4 XID.

For product information, sales or service, please go to www.smithsdetection.com/locations

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