

HAZMATCAD™

Hazardous Material Chemical Agent Detector



PRODUCT HIGHLIGHTS

- **Compact, Lightweight, Handheld**
- **Fast Warm Up**
- **Agent Specific Detection**
- **Dual Mode Operation**
 - **Fast Mode**
 - **High Sensitivity Mode**
- **Requires No Calibration**
- **Bump Test Accessory**
- **Data Log**

HAZMATCAD™ Series is a handheld instrument that detects and classifies chemical warfare agents, Nerve (G) and Blister (H). When compared to other chemical agent technologies HAZMATCAD™ is designed to be reliable, fast to start up, easy to operate and avoid false alarms from non-target chemicals in the urban environment. The HAZMATCAD™ offers two modes of operation, one for general operation and one high sensitivity, lowering the sensitivity threshold by approximately 10 times the fast response level.

Nerve and Blister Detection

The HAZMATCAD™ uses a Surface Acoustic Wave (SAW) array as its method of detection. The SAW array detector offers two key advantages over other chemical agent detection technologies. Since it uses a multi-element sensor array a specific finger print or pattern of the chemical response is required for identification. This analysis of the response pattern allows the HAZMATCAD™ to be highly specific for the detection of nerve and blister agents. Additionally, the sample analysis uses an innovative collector that

defines the sample, suppressing non-target and enriching the target chemical agents. This combination of the sensor array and collector allows for its unmatched chemical specificity for nerve and blister detection.

Operational Deployment

Designed to be used while wearing a Level A protection suit the HAZMATCAD™ is simple to operate. After inserting the rechargeable batteries, a single key press starts the automatic sample cycle. Alarm detection appears as a message on the LED display and sounds an audible alarm. The alarm message reports both the concentration level "High", "Medium" and "Low" and the agent type "G" Nerve or "H" Blister. HAZMATCAD™ is lightweight (22 oz) and uses a high visibility display which can be read in direct sunlight. HAZMATCAD™ was created to meet the needs of first responders offering an easy to operate instrument that delivers highest reliability and detection performance without compromise.

HAZMATCAD™

GENERAL SPECIFICATIONS

Weight	0.63Kg – 22 oz (including batteries)
Dimensions	5.8x6.2x19.8 cm or 2.3x2.5x7.8 inches
Warm Up	<3 minutes
CW Agents Detected	VX, GA, GB, GD, HD, HN3, AC
Alarm Levels Nerve	
Fast Mode	0.3 to 0.9 mg/m3 or 0.04 to 0.14 ppm
High Sensitivity Mode	0.06 to 0.18 mg/m3 or 0.01 to 0.03 ppm
Alarm Levels Blister	
Fast Mode	1.4 mg/m3 or 0.2 ppm
High Sensitivity Mode	0.28 mg/m3 to 0.04 ppm
Battery Type	Li Ion
Mission Life	
Fast Mode	8 hours
High Sensitivity Mode	12 hours
Audible Alarm	85dB at 0.1 m
Operating Temperature	0° to 40°C or 32° to 105°F
Operating Humidity	0-95% non-condensing atmosphere
Warranty	1 year parts and labor

ORDERING INFORMATION

HAZMATCAD Series

M1001000 Detects Nerve and Blister

DIMENSIONS

