

HAZMATCAD™

Hazardous Material Chemical Agent Detector



Portable instrument for detection of chemical warfare agents.

The HAZMATCAD Hazardous Material Chemical Agent Detector is a handheld instrument that detects and classifies Chemical Warfare Agents (CWAs). When compared to other technologies, the HAZMATCAD Detector offers more capabilities and greater reliability at a lower cost.

The HAZMATCAD Detector has demonstrated superior selectivity for nerve and blister agents, and often outperforms other portable instruments. It combines a Surface Acoustic Wave (SAW) array detector with innovative sample collector and advanced signal processing algorithms to minimize false alarms in unpredictable environments. Additionally, the instrument

can be configured to detect phosgene (CG) or hydrogen cyanide (AC), thereby expanding its threat detection capabilities.

HAZMATCAD Detector's operation is simple. A single key-press begins automatic sampling and analysis. Alarm messages are given both visually and audibly for nerve (G), blister (H) or toxic (TOX) chemical threats. The HAZMATCAD Detector is lightweight, ruggedly constructed and can easily be used while wearing a Level A protection suit. Created specifically to meet the complex needs of first responders, the HAZMATCAD Detector provides a CWA tool that delivers detection confidently and without compromise.

Features

- Compact, lightweight, and portable
- Self-diagnostic check during rapid warm-up
- Alphanumeric display with LED alarms
- Dual-Mode SAW operation—Fast or High sensitivity
- Run time of 8-12 hours on rechargeable li-ion batteries
- Vapor-diffusion check source verifies system performance
- Unit can be hand-carried or worn on belt
- RS-232 and IrDA communication ports; stores up to 8 hours of data
- Inlet design protects against dust and particulates

HAZMATCAD Detector Kit Includes

- HAZMATCAD Detector
- Battery charger
- Belt clip
- Two Sony rechargeable batteries
- Hard, water-resistant carrying case
- Operating manual
- Vapor check source



HAZMATCAD Specifications

Weight	22 ounces with batteries (0.63kg)
Dimensions	2.3 x 2.5 x 7.8 inches (5.8 x 6.2 x 19.8cm)
Sensor Technology	Surface acoustic wave microsensor array
Analysis Time	20 seconds – Fast Mode, 120 Seconds – High Sensitivity Mode
Visual Display	4-character alphanumeric LCD display plus status LEDs
Warm-up	Less than 3 minutes
CWA Alarm Thresholds	Nerve agents (G) Fast Mode – 0.3 to 0.9mg/m3 or (0.04 to 0.14ppm) Blister agents (H) Fast Mode – 1.4mg/m3 or (0.2ppm) Nerve agents (G) High Sensitivity Mode – 0.06 to 0.18mg/m3 or (0.01 to 0.03ppm) Blister agents (H) High Sensitivity Mode – 0.28mg/m3 or (0.04ppm)
Blood or Choke Alarm Thresholds	Hydrogen cyanide – blood agent – "TOX" (AC) – 5.0ppm Phosgene – choke agent – "TOX" (CG) – 0.3ppm
Battery Type	Sony NP-F550 li-ion rechargeable
Mission Life	8 hours – Fast Mode, 12 hours – High Sensitivity Mode
Audible Alarm	85 db at 0.1 meter
Data Output	9600 baud infrared data port, RS-232 with adapter cable
Operating Temperature	0° to 40°C, 32° to 105°F
Operating Humidity	0 to 95% non-condensing
Warranty	1-year parts and labor

Ordering Information

10055094	Detects nerve and blister agents
10055095	Detects nerve and blister agents, hydrogen cyanide
10055096	Detects nerve and blister agents, phosgene

Note: This Bulletin contains only a general description of the products shown. While uses and performance capabilities are described, under no circumstances shall the products be used by untrained or unqualified individuals and not until the product instructions including any warnings or cautions provided have been thoroughly read and understood. Only they contain the complete and detailed information concerning proper use and care of these products.



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