

# HAZMATCAD™ PLUS

Hazardous Material Chemical Agent Detector with Selected TICs



Portable instrument for detection of nerve and blister agents, and hydrogen cyanide.

The HAZMATCAD Plus Detector is a portable instrument designed for one-hand operation. It is easy to operate and requires limited training for effective use.

In an unknown environment, instrument reliability and analysis specificity are key to correct threat determinations. HAZMATCAD Plus Detectors provide first responders with these unprecedented field performance capabilities.

This unit combines two proven detection technologies: a Surface Acoustic Wave (SAW) sensor array and an electrochemical cell array to meet a wide range of chemical threats.

The HAZMATCAD Plus Detector provides superior selectivity through innovative design. By using a SAW sensor array and a thermally-modulated sample collector, the unit provides unsurpassed false alarm rejection. This ability to provide no-compromise CWA performance with the addition of select TICs such as phosgene, hydrogen cyanide, halogen and hydride gases makes the HAZMATCAD Plus Detector the best solution for detection of a broad range of chemical threats.

## 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
- Electrochemical cells – real-time analysis
- Run time of 8-12 hours on rechargeable li-ion batteries
- Vapor-diffusion check source verifies system performance
- RS-232 and IrDA communication ports; stores up to 8 hours of data
- Inlet design protects against dust and particulates

## HAZMATCAD Detector Plus Kit Includes

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



## HAZMATCAD Plus Specifications

<b>Weight</b>	50 ounces with batteries (1.43kg)
<b>Dimensions</b>	2.3 x 7.9 x 9.8 inches (5.8 x 20.0 x 24.9 cm)
<b>Sensor Technologies</b>	Surface acoustic wave microsensor array, electrochemical cell array
<b>Analysis Time – SAW Sensors</b>	20 seconds – FM (Fast Mode), 120 Seconds – HS (High Sensitivity Mode)
<b>Analysis Time – Electrochemical</b>	Real-time
<b>Visual Display</b>	4-character alphanumeric LCD display plus status LEDs
<b>Warm-up</b>	Less than 3 minutes
<b>CW Alarm Thresholds</b>	Nerve agents (G) Fast Mode – 0.3 to 0.9mg/m <sup>3</sup> or (0.04 to 0.14ppm) Blister agents (H) Fast Mode – 1.4mg/m <sup>3</sup> or (0.2ppm) Nerve agents (G) High Sensitivity Mode – 0.06 to 0.18mg/m <sup>3</sup> or (0.01 to 0.03ppm) Blister agents (H) High Sensitivity Mode – 0.28mg/m <sup>3</sup> or (0.04ppm)
<b>TIC Alarm Thresholds</b>	Hydrogen cyanide – blood agent – "BLoD" (AC) – 5.0ppm Phosgene – choke agent – "CHOK" (CG) – 0.3ppm Hydride – "HYdR" – 0.5ppm Halogen – "HALO" – 10.0ppm
<b>Battery Type</b>	Sony NP-F550 li-ion rechargeable
<b>Mission Life</b>	8 hours – Fast Mode, 12 hours – High Sensitivity Mode
<b>Audible Alarm</b>	85 db at 0.1 meter
<b>Data Output</b>	9600 baud infrared data port, RS-232 with adapter cable
<b>Operating Temperature</b>	0° to 40° C, 32° to 105° F
<b>Operating Humidity</b>	0 to 95% non-condensing
<b>Warranty</b>	1-year parts and labor

## Ordering Information

10055097 Detects nerve, blister agents, and TICs (phosgene, hydrogen cyanide, halogen, and hydride gases)

**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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