

HazMatID™

PORTABLE CHEMICAL IDENTIFIER



Feature Highlights

- Identifies unknown liquid, powders and solids in seconds
- No sample preparation
- Easy to use in Level A gear
- At 23 lbs., it can easily be carried into the Hotzone
- Entire system can be submersed in a decon solution
- ReachBack, 24/7/365 technical support

When a Response team is called upon to deal with a potentially dangerous or toxic substance, the first and most crucial question is: "What is this substance?" The portable HazMatID chemical identifier answers this question in seconds.

The HazMatID is a highly specific tool that measures how chemical samples interact with infrared light. Each chemical has its own unique infrared fingerprint, which when analyzed by the HazMatID is compared against an onboard library database to provide identification in less than 20 seconds.

Database libraries include:

- WMD—nerve & blister agents
- Toxic industrial chemicals
- White powders
- Explosives & Propellants
- WMD precursors
- Common chemicals
- Forensic drugs & Clan Lab precursors
- Pesticides

Technical Data HazMatID

General Specifications

Technology	Fourier-Transform Infrared Spectroscopy
Weight	23 lbs. (10.43 kg)
Size	17 1/2" x 12" x 7 1/2" (44.4 x 30.5 x 19 cm)
Sample interface	Diamond sensor
Environmental Features	The system is waterproof to allow it to pass through the decon line. The beam splitter uses a ZnSe substrate which is resistant to environmental conditions encountered in the field.
Operating Ranges	Operational in extreme weather and temperatures ranging from 19°F to 122°F (-7°C to 50°C). Humidity ranging from 0-100%
User Interface	The HazMatID software is a streamlined, touch-screen application. Specifically designed to be easy to use but very powerful in its capability, a complete identification of an unknown simply requires the user to advance each screen as it is presented. Network enabled. Requires security authorization to access. Windows® operating system.
Controller	Touch-screen embedded system Finger or Stylus control
Power	Internal battery, mains or cigarette lighter Battery runs for 2 hours Charge time is 3 hours
External Data Storage	Full USB support Flash devices Floppy drives CD-Rs
Input/Output Devices	Mouse and keyboard compatible Ethernet capable

Available Options

ExtractIR	Removes chemicals from aqueous solutions for improved identification
Wireless capability	Up to 11Mbps high-speed transfer rate with automatic fallback 802.11g 2.4GHz compliant Supports up to 128-bit WEP encryption security Indoor and outdoor capability
RepeatIR	More than doubles the wireless communication range
Libraries	Additional spectral libraries are available

The HazMatID™ is intended to provide initial determinations and be used as an information resource in the field and not absolute or conclusive identification of unknown substances. The results provided by the HazMatID should be verified by using other appropriate techniques. Smiths Detection makes no recommendations nor does it assume any liability for how the information is utilized.



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