

HazMatID Ranger™

HANDHELD FT-IR SOLID & LIQUID CHEMICAL IDENTIFIER



Feature Highlights

- Capable of immediate accurate identification of over 32,000 chemical substances
- Integrates with NIOSH Pocket Guide to Chemicals providing health and safety information
- Touch-to-sample operation
- Ease of operation in protective gear
- Decon-capable device via submersion
- Interface built upon HazMatID™ software
- ReachBack™ 24/7/365 technical support

Designed for handheld, backpack or robot portability and ease of use in protective gear, the HazMatID Ranger is a rugged chemical identifier featuring touch-to-sample operation.

The HazMatID Ranger is a highly specific device that utilizes proven FT-IR technology. Analysis is performed by simply touching a diamond ATR sensor tip directly to a sample. The HazMatID Ranger provides both spectral results and a list of probable substances to aid in the Responders' capability to identify chemicals, as well as components in mixtures.

Both its' software and hardware design are based on the security industry's most accepted portable chemical identifier, the HazMatID™.

The HazMatID Ranger provides quick, easy and accurate identification of over 32,000 substances including:

- white powders
- WMDs
- explosives
- narcotics & drugs precursors
- pesticides
- common chemicals
- toxic industrial chemicals

Smiths Detection supports the HazMatID Ranger with Partnership Programs to ensure optimum product performance and service. Partnership Programs include ReachBack 24/7/365 technical support to aid in spectral interpretation and system operation in the field.

Smiths Detection offers integrated security solutions for customers in civil and military markets worldwide and is a leading technology developer and manufacturer of sensors that detect and identify explosives, chemical and biological agents, weapons, and contraband.

Technical Data HazMatID Ranger™

General Specifications

Technology	Fourier-Transform Infrared Spectroscopy
Weight	6 ½ lbs. (2.94 kg)
Size	12" x 7 ½" x 4 ½" (30.5 x 17.8 x 11.4 cm)
Sample interface	ATR Diamond sensor
Environmental Features	Sealed to withstand decontamination Shock: Withstands 40G on each axis (in shipping case) Vibration: Withstands 60 Hz for 30 minutes
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 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 with the pull of a trigger.
Controller	PDA control via Bluetooth One-handed operation with pistol grip
Power	Internal battery, mains or cigarette lighter System Battery runs for >3 hours PDA Battery runs for >8 hours
External Data Storage	Full USB support CompactFlash Slot SDIO Slot

Available Options

Wireless capability	Bluetooth v2.0 + EDR Class 2 supported Communication with FT-IR system. Communication with external laptop operating system for advanced combined analysis with the Responder RC1™, portable Raman spectrometer. Indoor and outdoor capability
Libraries	Standard Libraries >4,400 materials Optional Libraries >32,000 materials

Global Military & Emergency Response Group

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