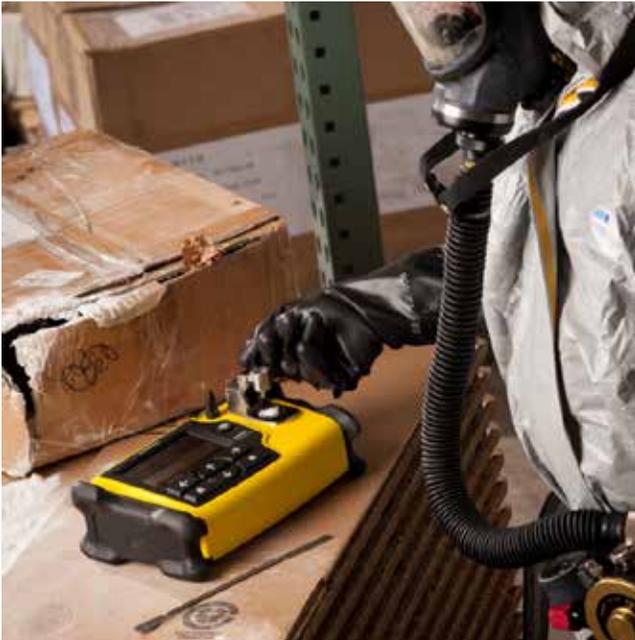# HazMatID™ Elite

Handheld FTIR Chemical Identifier

smiths detection
bringing technology to life

Based on the pedigree of Smiths Detection's trusted FTIR technology, but ten times smaller and four times lighter than the original HazMatID, HazMatID Elite is a next-generation handheld chemical identifier for down-range operations.

The HazMatID Elite's field portable design features an intuitive interface and self guided software that require minimal training while providing responders with actionable data and advanced chemical analysis tools that enhance existing response capabilities.

HazMatID Elite's exceptional functionality and ability to operate in extreme environments combined with Smiths Detection's renowned customer service and support provide unrivaled capability to military personnel and first responders worldwide.

Feature Highlights:

+ Optimized for easy operation in personal protective gear.

+ MIL-STD-810G certified for use in harsh conditions and high-temperature operation.

+ Integrated pressure device for analysis of solid materials, plus direct touch-to-sample capability

+ Automated analysis of mixtures with priority alerting for explosives, CWAs, TICs, and narcotics

+ Long-range, embedded RF wireless transmission

User guided graphics

Long-range, encrypted RF wireless transmission

KEY FEATURE:
Integrated pressure device is the only reliable way to measure solid samples

Large keypad for ease of operation in PPE

Sounder for Audible Alarms

KEY FEATURE:
MIL-STD-810G Certified to the strictest military standard for high temperature/solar exposure at the hottest conditions in the world.

KEY FEATURE:
Automated anlysis of mixtures with priority alerting for explosives, CWAs and Narcotics

Touch to sample for surface analysis and robotics integration

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HazMatID™ Elite   Handheld FTIR Chemical Identifier

Technical Data
General Specifications

Technology	Fourier-Transform Infrared Spectroscopy
Size	26.9 cm x 14.3 cm x 7.9 cm (10 5/8 in. x 5 5/8 in. x 3 1/8 in.)
Weight	2.29 kg. (5.05 lbs.)
Sample Interface	Diamond ATR sensor with integrated solid press and liquids well Second, touch-to-sample diamond ATR sensor for direct sampling
Decon	IP-67 rated and sealed for decontamination by immersion
Operational Ranges	Operational in extreme weather and temperature ranging from -20°C to 50°C (-4°F to 122°F) Humidity ranging from 0-100%
User interface	4.3 inches internally-bonded LCD color display for high visibility in direct sunlight conditions Individually-lit keypad and instructional graphics guide users through the operation of the device
Power	Rechargeable lithium-ion battery for 4 hours operation Disposable 123A battery compatible External IP-67 rated connector for mains or automobile power
Wireless	Embedded RF modem for 1 km line-of-sight data transfer and command control FIPS 140-2 compliant encryption GPS included
External Data Storage	Full USB support
Libraries	10,000 spectra of chemical warfare agents, explosives, narcotics, TICs, pesticides, white powder, and other chemical classes. User-defined libraries transferable from the HazMatID.

Available Options

Command PC software	Advanced software package for data management and spectral reprocessing against upgraded databases (up to 35,000 spectra)
Repeater	RF repeater for extending the wireless data transfer range
Colors	Olive drab or yellow

Applications:

+ Chemical Weapons
+ Explosive & Pre-Cursor Material
+ Forensics
+ Hazardous Materials/Tics
+ Narcotics
+ Unknown Solids, Liquids & Powders

14.3 cm

7.9 cm

26.9 cm

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