



GEMINI Thermo Scientific

INTEGRATED RAMAN AND FTIR
FOR CHEMICAL AND EXPLOSIVES ID

- RUGGED AND COMPACT
- SAFER OPERATION
- EASY TO USE
- ENABLES USERS TO VIRTUALLY MIX CHEMICAL SUBSTANCES, PROTECTING THEMSELVES AND THE PUBLIC

USER PROFILES

Users can customize scan parameters based on situational awareness and their own knowledge and experience — before entering the hazard zone. This ensures the operator can collect data efficiently as soon as they are downrange.

FLEXIBLE INPUT

Operators can easily navigate features using either the tactile keypad or resistive touch screen, even when wearing protective gloves.

INCREASED CONFIDENCE WITH COMPLEMENTARY AND CONFIRMATORY RESULTS

Complementary and confirmatory Raman and FTIR are highly specific and reliable identification methods, each with strengths and limitations.

By integrating both into a single analyzer, operators harness the power of each technology while enabling a broader range of chemical identification.

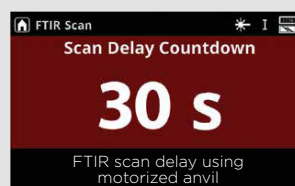
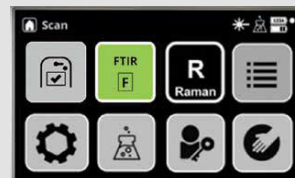
The Gemini analyzer allows you to quickly switch between analysis techniques. Get robust analysis information quicker than ever, without the need to sacrifice capability for weight.



THE RUGGED, COMPACT GEMINI™ ANALYZER MEETS THE DEMANDING REQUIREMENTS OF ELITE MILITARY FORCES AND FIRST RESPONDERS, HELPING OPERATORS EXECUTE THEIR MISSION QUICKLY, SAFELY, AND CONFIDENTLY.

SAFER OPERATION

In addition to the Raman scan delay, adjustable laser power, and other built-in safety features, Gemini introduces the industry's first FTIR scan delay, enabled by the motorized anvil. Optional software enables users to virtually mix chemical substances, protecting themselves and the public from dangerous chemical combinations.





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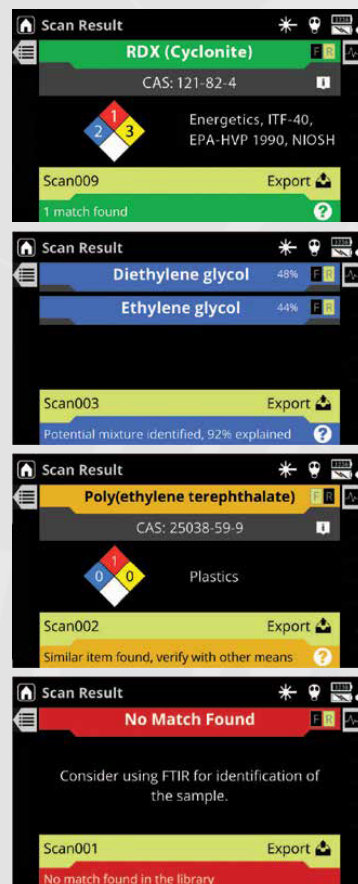
SPECIFICATIONS

Size	25.6 cm x 14.6 cm x 6.1 cm
Weight	1.9 kg
Spectral Range	FTIR: 4,000 cm ⁻¹ to 650 cm ⁻¹ Raman: (785nm) 250 cm ⁻¹ to 2875 cm ⁻¹
Spectral Resolution	FTIR: 4 cm ⁻¹ Raman: 7 to 10.5 cm ⁻¹ (FWHM) across range
Collection Optics	FTIR: ATR diamond crystal, single bounce Raman: Fiber optic probe
Power Supply	Internal 3.7V lithium polymer (QTY 1) battery pack Internal CR123A (QTY 3) batteries DC wall adapter, 12 V DC 1.25 A
Data Export	SPC (for use in standard spectroscopic software), reachback (.rbk), text, or PDF
Ruggedness	MIL-STD-810G and IP67
Languages	English, German, Turkish, Spanish, Chinese, Japanese, Arabic, French, Russian
Add On Capability	Optional HazMasterG3® decision support software (English GUI only); requires Gemini v1.6 or later software
Onboard Mixture Analysis	Identification of up to 4 components in a mixture

- Intuitive interface including customizable profiles and Scan Assist, to guide the operator through technology selection and sampling;
- Motorized anvil adjusts sample pressure based on user settings and enables Scan Delay for safer FTIR analysis

Clear results

Built on the performance and reliability of the Thermo Scientific™ FirstDefender™ and TruDefender™ product lines, Gemini analyzers deliver accurate, color-coded results which require minimal user interpretation and provide a quick overview of the hazard at hand. Based on these results, operators can quickly and confidently proceed with their mission.



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