



Thermo Scientific Gemini handheld analyzer

Integrated Raman and FTIR
for chemical and explosives ID

ThermoFisher
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The rugged, compact Thermo Scientific™ Gemini™ analyzer meets the demanding requirements of elite military forces and first responders, helping operators execute their mission quickly, safely, and confidently.

Faster response

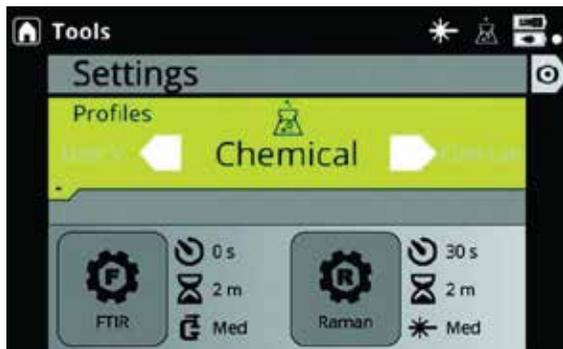
Because every second counts

Profiles

By setting up 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.

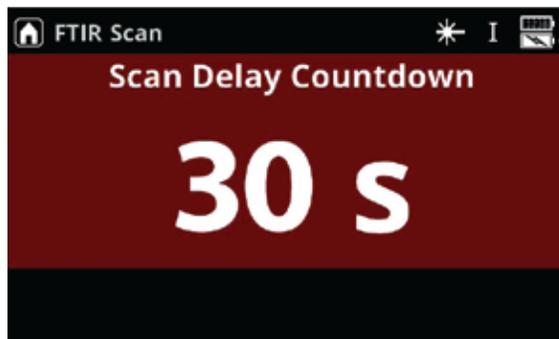
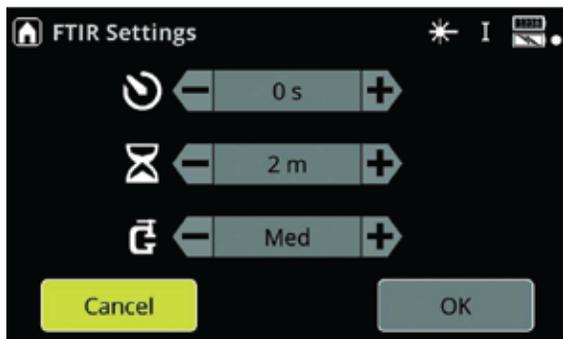


Safer operation

Designed with safety as a top priority

In addition to 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.



Increased confidence with Thermo Scientific Gemini

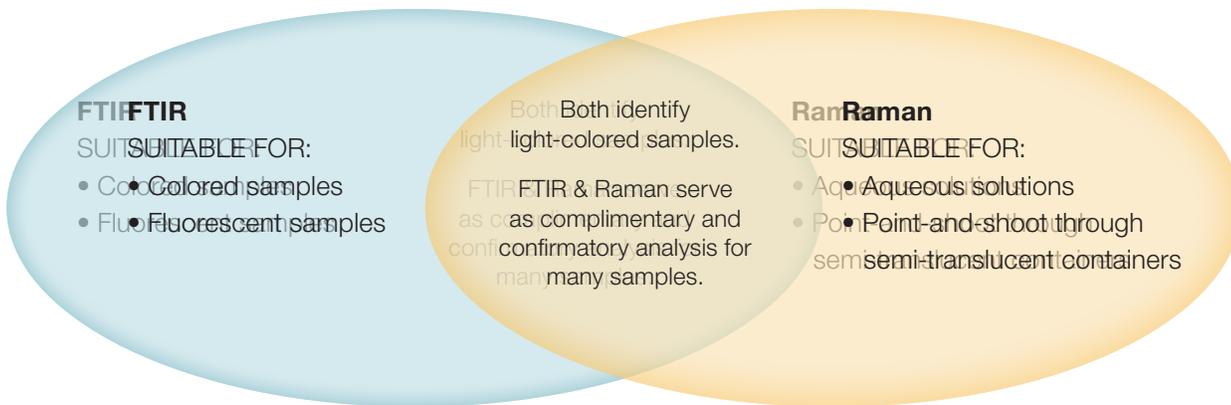


Small footprint, big capability

The Gemini analyzer enables operators to quickly switch between analysis techniques. And, since they no longer need to sacrifice capability for weight, operators have robust analysis information quicker than ever before.

Dual technologies: 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.

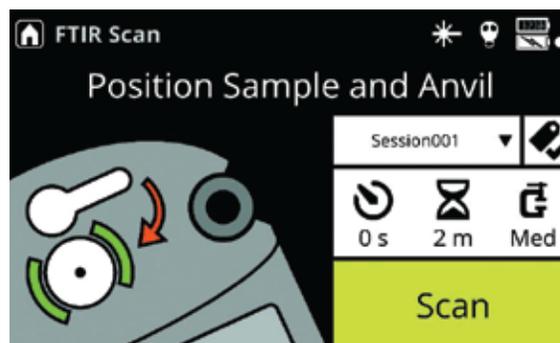
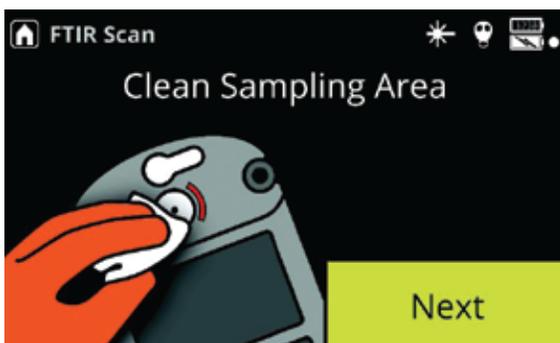


Intuitive operation

The intuitive, graphical interface ensures that minimal training is required for proficiency. For new users, the Scan Assist feature guides technology selection with a series of easy questions. The consistent interface and workflow across technologies ensure that experienced operators can easily proceed with sampling.

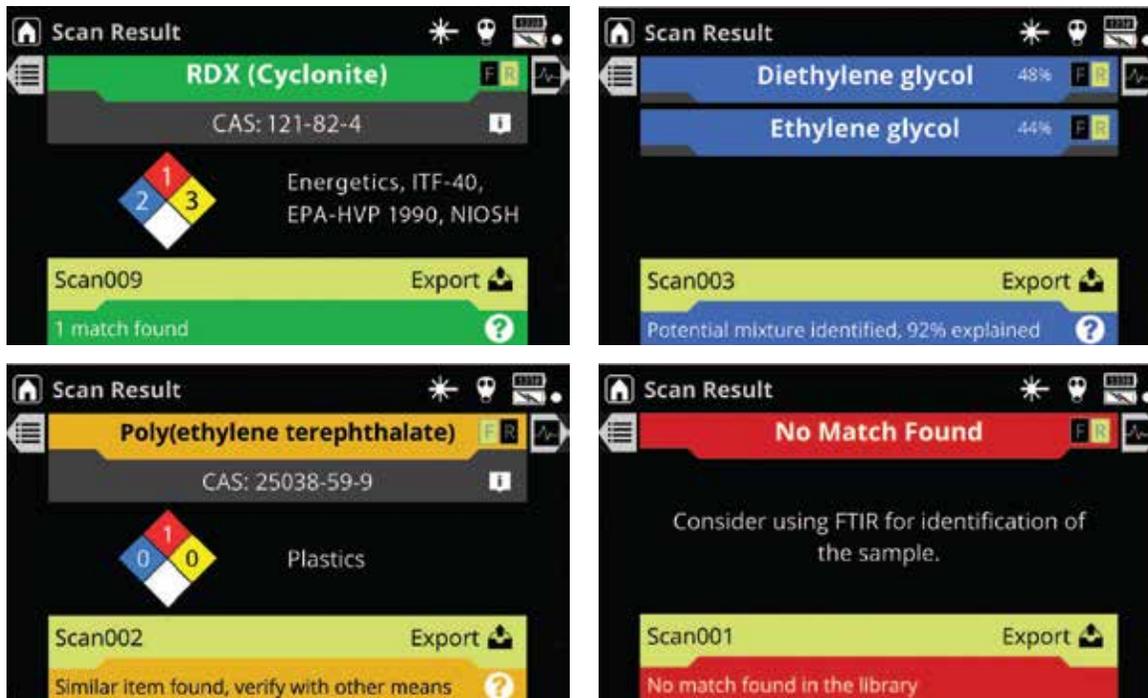
Designed for survivability

We understand the conditions operators face and the demands they place on equipment. From extreme climates to aggressive handling, Gemini has been certified to the latest military standards for ruggedness—drop, shock, vibration, temperature, immersion and much more.



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.



Specifications

Size	10.1 in x 5.7 in x 2.4 in (25.6 cm x 14.6 cm x 6.1 cm)
Weight	4.2 lbs (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
Survivability	MIL-STD-810G and IP67
Languages	English, German, Turkish, Spanish, Chinese, Japanese, Arabic
Add On Capability	HazMasterG3 [®] decision support software (English GUI only); requires Gemini v1.6 or later software

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