



FTIR spectrometer

Handheld FTIR for chemical identification

Thermo Scientific TruDefender FTX

Accurately identify unknown chemicals in the field

When faced with unknown chemicals in the field, rapid, accurate identification is critical. With Thermo Scientific™ TruDefender™ analyzers, chemical battalions, hazmat teams and other first responders obtain the reliable identification they need to protect themselves, mitigate the scene and safely execute their mission.

Key Benefits:

- **Fast, accurate identification.** Returns results in seconds, even for complex mixtures.
- **Easy to use.** Intuitive, menu-driven interface for fast training and proficiency.
- **Improved sampling.** Large sampling surface and fully rotational anvil for easy sample placement.
- **Built for field use.** Smallest, lightest military-rugged FTIR spectrometer on the market. Certified to MIL-STD 810G for ruggedness.
- **Easy to clean.** Contoured edges and self-contained anvil mechanism ensure easy decontamination.
- **Worry-free maintenance.** Requires no scheduled maintenance, calibration, warm up or mirror alignment.



Clear analysis results require no user interpretation.

Session001 : Scan007

Cyclosarin (GF)
AKA: Cyclosin, CMPF
CAS: 329-99-7

1 match found

Scan results

Name Weight, 96% total

Acetone
ITF-40, EPA HVP, Household/Commercial
CAS: 67-64-1

Pseudoephedrine

Potential Mixture Identified

Session001 : Scan014

Ethylbenzene
EPA-HVP 1990, ITF-40, NIOSH, UN
CAS: 100-41-4

A similar item found; verify with other means



Thermo Scientific TruDefender analyzers are rugged, handheld FTIR systems for rapid identification of unknown chemicals including explosives, narcotics, toxic industrial chemicals and precursors. They bring the power of FTIR directly into the hazard zone, enabling the responder to analyze—and act—faster than ever before.

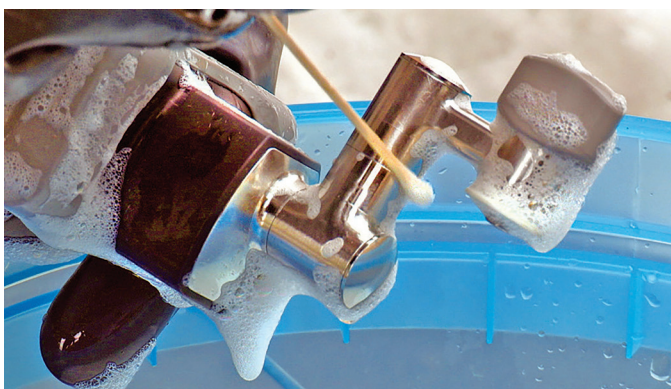


Lightweight and easy to use, TruDefender FTX analyzers include an anvil sampling head for easier sampling and decontamination. The self-contained anvil mechanism ensures there are no friction points or crevasses that may trap debris or explosive residue. The variable pressure anvil allows the user to apply appropriate pressure for a given substance to further minimize risk.

Thermo Scientific TruDefender FTX

Specifications	TruDefender FTX
Weight	3.12 lb (1.41kg)
Size	8.9 x 4.5 x 2.1 in (22.61 x 11.43 x 5.33cm)
Spectral range	4,000cm ⁻¹ to 650cm ⁻¹
Spectral resolution	4cm ⁻¹
Collection optics	Solid Diamond Crystal ATR
Operating frequency	n/a
Survivability	Independently tested for MIL-STD-810G and IP67 certification
Data export formats	SPC file (for use in standard spectroscopic software), text file, or JPEG report
Battery	Removable and rechargeable lithium ion battery or 123a (e.g. SureFire™) batteries; >4 hours operation
External power supply	Wall plug transformer 100-240 VAC 50/60 Hz
Operating temperature	-4 °F to 104 °F (-20 °C to +40 °C)
Language configurations (optional)	English, Chinese, German, Russian, French, Japanese, Turkish. Also Arabic GUI with english library.
Onboard mixture analysis	Identification of up to 4 components in a mixture.

Complete MIL-STD-810G test results available upon request.



Designed for decon

The TruDefender FTX instrument is easily cleaned by submerging in decon solution, or using standard cleaning tools—no disassembly required.



Flexible sampling

The reversible sampling accessory provides environmental protection for volatile liquids and enables easy sampling of prills.

Learn more at thermofisher.com/trudefender