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.

Thermo Scientific TruDefender FTX

Handheld FTIR for Chemical Identification









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

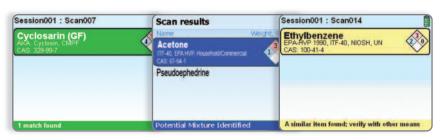
Lightweight and easy to use,
TruDefender FTX analyzers include an anvil
sampling head for easier sampling and
decontamination. The self-contained anvil
mechanism prevents chemical entrapment
which could contaminate operators or
subsequent samples. The anvil rotates
to provide clear visibility and to ensure easy
sampling when faced with limited dexterity.

The variable pressure anvil allows the user to apply appropriate pressure for a given substance, whether less pressure for substances with high Raman signal or more pressure for hard crystals.

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.



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.

Field-Proven Complementary Technologies

FTIR spectroscopy and Raman spectroscopy, the underlying technologies in the TruDefender and FirstDefender™ product families, are highly precise and selective optical techniques, each offering distinct advantages in specific applications.



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 |
| 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 |

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

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