

# TruDefender | FT

Handheld FTIR for Law Enforcement Applications

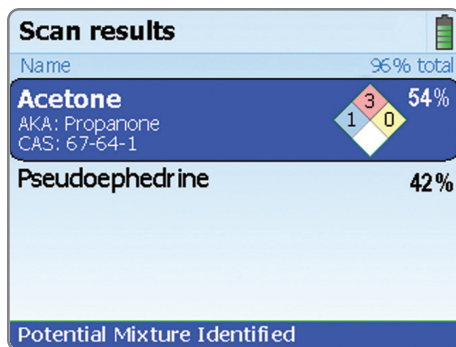
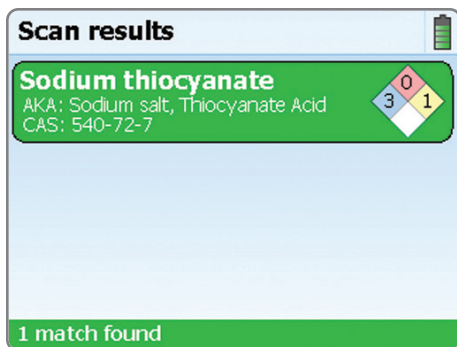


**TruDefender™ FT** is a rugged, handheld FTIR system for rapid, in-the-field identification of unknown chemicals including explosives, narcotics and white powders. Unlike other instruments available today, TruDefender FT brings the power of FTIR directly into the field, enabling law enforcement personnel to analyze—and act—faster than ever before.

Weighing less than three pounds (1.4 kg), TruDefender FT was built to meet the needs of the first responder. It is ergonomically designed for easy use in protective gear and rugged enough to withstand the rigors of field use. With TruDefender FT, you can be confident that the tools, knowledge and know-how needed for safe response are literally in the palm of your hand.

## KEY BENEFITS INCLUDE:

- **Designed for use down range.** The light-weight and fully decon-capable system can be taken directly to an unknown substance, eliminating significant response time.
- **Fast, accurate analysis you can act on.** TruDefender FT returns results in seconds. An onboard hazard database provides full safety and treatment information, further speeding appropriate response.
- **Precise results.** Ahura Scientific's patented software reduces the need for scientific field support by providing clear, definitive results that don't require user interpretation or judgment. Automatic mixture analysis enhances substance identification capability and eliminates the need for subtraction of spectra.
- **Easy to use.** Intuitive menu-driven user interface enables even novice users to be proficient with minimal training.
- **Easy maintenance.** TruDefender FT is a self-contained unit which requires no scheduled maintenance or calibration, and uses no consumables.
- **Flexible power source.** TruDefender FT can be powered using the included rechargeable battery; wall plug; or commonly available SureFire™ disposable batteries.



TruDefender FT provides clear results that require no user interpretation. Each analysis automatically checks for the presence of mixed chemicals.

### Complementary and Confirmatory

Building on Ahura Scientific's proven technology, TruDefender FT is a complementary tool to FirstDefender, the company's flagship handheld Raman system. FirstDefender and TruDefender FT are available together in Ahura Scientific's Chemical Technology Kit (CTK), combining two powerful chemical identification technologies—Raman and FTIR spectroscopy—into a single kit for the first time.



### Proven Technology

Ahura Scientific products are actively deployed by military organizations, first responders and national law enforcement agencies across the world. The company's safety product family includes FirstDefender and TruDefender FT for solid and liquid chemical identification; and TruDefender FTG for headspace gas analysis.

Specifications	
<b>Weight</b>	<3 lbs (<1.4 kg)
<b>Size</b>	7.7" x 4.4" x 2.1" (19.6 cm x 11.2 cm x 5.3 cm)
<b>Spectral Range</b>	4,000 cm <sup>-1</sup> to 650 cm <sup>-1</sup>
<b>Spectral Resolution</b>	4 cm <sup>-1</sup>
<b>Collection Optics</b>	ATR Diamond Crystal
<b>Battery</b>	Rechargeable internal lithium ion battery, OR SureFire™ disposable batteries; >2 hours operation
<b>External Power Supply</b>	Wall plug transformer 100-240 VAC 50/60 Hz

Note: Product details current as of printing. All information subject to change. 25August2009