



FIRSTDEFENDER RM/RMX Thermo Scientific

THERMO SCIENTIFIC FIRSTDEFENDER RM/RMX

- FAST, ACCURATE IDENTIFICATION
- BUILT FOR FIELD USE
- EASY TO USE
- FLEXIBLE USE MODES
- IMPROVED AUTOMATIC MIXTURE ANALYSIS
- POINT-AND-SHOOT™ SAMPLING
- EXTENSIVE SUBSTANCE LIBRARY

CONTINUOUS INNOVATION

FirstDefender analyzers continue to evolve to meet the demanding requirements of elite military personnel and civilian first responders. Improved algorithms and tagging ensure that the instrument offers military organizations, hazmat teams, bomb squads and law enforcement personnel a unique tool for identification of various threats.

COMPLEMENTARY AND CONFIRMATORY

Raman spectroscopy and FTIR spectroscopy, the underlying technologies in the FirstDefender and TruDefender product families, are highly precise and selective optical techniques, each offering distinct advantages in specific applications. When used together, FTIR and Raman spectroscopy provide confirmatory results and a broader range of unknown substance identification—leading to better protection for the responder and the community.

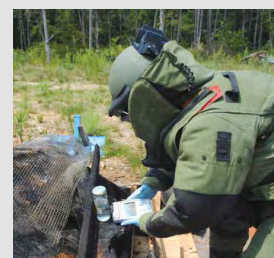
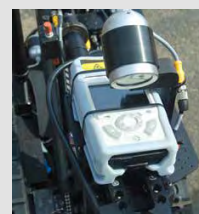


RESPONDER AND COMMUNITY SAFETY ARE CRITICAL WHEN ANALYZING POTENTIALLY HAZARDOUS MATERIALS.

THE **FIRSTDEFENDER™** INSTRUMENTS, DEPLOYED WORLDWIDE BY MILITARY PERSONNEL AND CIVILIAN FIRST RESPONDERS, DELIVER EXCEPTIONAL CHEMICAL IDENTIFICATION CAPABILITY FOR A RANGE OF RESPONSE SCENARIOS.

RMX MODEL ADDITIONS

The FirstDefender RMX can be mounted to select tactical robots via a third party integration kit.



The size of the buttons and the large display improves usability in the field.



FIRSTDEFENDER RM/RMX Thermo Scientific



SPECIFICATIONS

Specifications	TruDefender FTX	TruDefender FTXi
Weight	800g	919g
Size	19.3cm x 10.7cm x 4.4cm	19.6cm x 11.4cm x 6.1cm
Use Mode	Point-and-shoot through translucent containers or integrated vial holder	Flexible: handheld with fixed probe; vial mode; or robot-mounted
Spectral Resolution	7 to 10.5 cm ⁻¹ (FWHM) across range	
Working Distance	-16 mm without nose cone ; -5mm with nose cone	
Laser Output	Power Adjustable, 75 mW, 125 mW, 250 mW	
Survivability	Independently tested for MIL-STD-810G and IP67 certification	
Exposure	Manual, Automatic modes (5ms minimum)	
Scan Delay	Optional; user-configurable delay up to 120 seconds	
Battery	Removable and rechargeable lithium ion battery or 123a (eg SureFire™) batteries; >4 hours operation	
External Power Supply	DC Wall Adapter, 12 V 1.25 A	
Operating Temperature	(-20 °C to +50 °C) Continuous	
Robot Integration	N/A	Integration kit required from robot manufacturer for mounting and universal control.
Onboard Mixture Analysis	Identification of up to 4 components in a mixture	

Note: Complete test reports available upon request.



Color-coded results require no user interpretation and provide rich content for faster, more informed decision making. Patented algorithms enable automatic mixture analysis, shown as a blue result, and tagged items are clearly highlighted on the result screen. Onboard NIOSH and CAMEO guides provide detailed hazard information.

KEY BENEFITS

- **Fast, accurate identification**
Based on Raman spectroscopy, quickly identifies unknown solid and liquid chemicals down range.
- **Built for field use**
MIL-STD-810G and IP67 tested and certified.
- **Easy to use**
Intuitive, menu-driven interface for fast training and proficiency.
- **Flexible use modes**
Handheld use or easily connected to select tactical robots using optional integration kit.
- **Improved automatic mixture analysis**
Sophisticated algorithms automatically determine presence of mixed and contaminated chemicals.
- **Point-and-shoot™ sampling**
Operates directly through sealed glass or plastic containers, avoiding exposure to potentially harmful substances.
- **Extensive substance library**
Identifies explosives, toxic industrial chemicals (TICs), chemical warfare agents (CWAs), narcotics, precursors, white powders and more.



HTDS

Parc d'Activités du Moulin de Massy – 3 rue du Saule Trapu
BP246 - 91882 Massy Cedex France

Tel : +33 (0) 1 64 86 28 28 – Fax : +33 (0) 1 69 07 69 54 – info@htds.fr – www.htds.fr

HTDS Algeria : +213 232 384 01/02

HTDS Morocco : +212 222 749 59

HTDS Egypt : +202 229 053 06

HTDS Lybia : +218 91 69 50 70 8

HTDS Madagascar : +261 34 40 664 72

HTDS Tunisia : +216 70 836 961

