

# MMTD<sup>®</sup>

## MULTI-MODE THREAT DETECTOR



### Feature Highlights

- **Hand-held, hardened detector for extreme conditions**
- **Explosives, narcotics and CWA/TIC detection and identification in one instrument**
- **Simultaneous dual mode detection of explosives and narcotics from a single sample**
- **Increased range of explosive detection, including optimization for peroxides and taggants**
- **Intuitive, easy to use interface using a Windows<sup>®</sup> CE based platform**
- **Remote, unattended operation capability**
- **Unlimited data storage via SD memory card**
- **Up to 5 hours of uninterrupted operation with hot-swappable battery**
- **Integrated USB**
- **WiFi/Ethernet**

The Multi-Mode Threat Detector (MMTD) is a rugged, portable hand-held system for the rapid detection and identification of explosives, narcotics or CWA/TICs featuring an optimized detection capability for peroxides, taggants and methamphetamine precursors. Additionally, a dual mode setting allows for the simultaneous detection of explosives and narcotics from one sample. With a quick switch, operators can select either particle or vapor analysis methods to utilize the best method for detecting the suspected threat.

Designed to IP54 rating for operation in extreme

environmental conditions, the MMTD takes portable threat detection to a new level without compromising portability or functionality.

Other features include up to 5 hours of uninterrupted operation with the 2 hot-swappable batteries (included), remote, unattended operation for 1 or more units with alarm and status information reported to Command & Control via Ethernet, WiFi or RF, unlimited data storage via SD card and exporting results via USB port. With the included software, advanced operators can perform more in-depth data analyses and print results, all via network connection.

# MMTD

The MMTD is powered by Smiths Detection proven and trusted IMS technology, used by the military, law enforcement and government agencies.

## Remote Capability

The MMTD is capable of remote, unattended operation with alarm and status information reported via Ethernet, WiFi or RF.

## Software

The software provides the operator with an intuitive and dynamic interface, easy-to-navigate menus and allows advanced operators the capability to further review and analyze results via network.

## Data Storage

Unlimited, data storage availability is based on capacity

of SD card (1500 plasmagrams with included SD card). Results can also be exported via USB, SD, or Ethernet ports.

## Technical Data

### General Specifications

Technology	Ion Mobility Spectrometry (IMS)
Radiation Source	<sup>63</sup> Ni, sealed 15 mCi
Sample Collection	Trace Particle and Vapor
Operating Modes	Simultaneous Explosives/Narcotics, Explosives only, Narcotics only, Chemical Warfare Agents/Toxic Industrial Chemicals
Explosives Detected	RDX, PETN, TNT, TATP, NG, H <sub>2</sub> O <sub>2</sub> , EGDN and others
Narcotics Detected	Cocaine, Heroin, Methamphetamine (including precursors), THC and others
CWAs Detected	Nerve and blister agents such as Tabun, Sarin, Soman, Cyclosarin, Agent VX and V <sub>X</sub>
TICs Detected	Hydrogen Cyanide (HCN), Phosgene, SO <sub>2</sub> , NH <sub>3</sub> and others
Sensitivity	Particle: low nanogram (ng) range. Vapor: low parts per million (ppm) range
False Alarm Rate	Less than 1%
Programmable Channels	Over 40
Input Voltage	12VDC, 90-264VAC, 47-63Hz; Auto sensing/switching; 2.5 hour battery
Power Requirements	Max 120W
Warm up Time	Less than 10 minutes
Analysis Time	Less than 10 seconds
Alarm Type	Audio and visual, with substance identification
Display	3.5" Color TFT LCD
Data Storage	Unlimited, based on capacity of removable SD Card
Dimensions	19" x 8.5" x 8" (48,3 x 21,6 x 20,3 cm)
Weight	11 lbs. (5 kg), including 2.5 hour hot swap battery
Operating Temperature Range	20°F to 130°F (-7°C to + 54°C), less than 95% relative humidity, non-condensing
Hardened Specifications	3' (1 meter) drop to concrete, ability to operate in sand, rain, wind conditions. (IP54 operating, IP53 vapor sampling)

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