

MIRA XTR DS

Safe, simple and smart material identification system for defense & security

Metrohm means...
Spectroscopy!

PEOPLE YOU CAN TRUST



Compact chemical identification for the most difficult samples

MIRA XTR DS is THE solution for first responders and military personal who deal with illicit drugs, hazardous materials, and improvised explosive devices (IEDs). Explosives, chemical warfare agents (CWAs), and narcotics created in clandestine labs are dirty and obscure the Raman signal.

When fluorescence is an issue, our competitors turn to 1064 nm.

BUT, A 1064 nm SYSTEM HAS TRADEOFFS

- High laser power greater risk for sample damage
- Low sensitivity 1064 Raman is about 70% less sensitive than 785 Raman
- Large size Bulky internal components make 1064 systems bigger and heavier



MIRA XTR DS – RAMAN WITHOUT COMPROMISE

MIRA XTR DS is the next revolution in Raman spectroscopy. It combines smaller size, higher resolution and longer battery life with the advanced patent-pending algorithms to eXTRact Raman data. Identify samples accurately and reliably with MIRA XTR DS.

- Low power laser safely measures sensitive samples
- Higher sensitivity and resolution in a smaller footprint
- 20,000 + library entries the largest library available on any handheld Raman system
- Capable of both bulk and trace identification of fentanyl and other illicit drugs with the ID KIT

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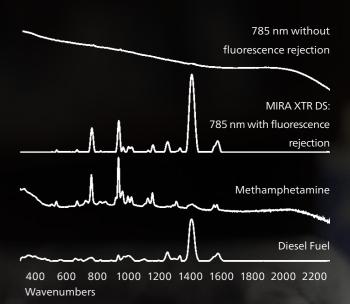
Unlimited scope of applications

MIRA XTR DS is designed for real-world scenarios like characterization of methamphetamine lab residues and identification of narcotics in street drug samples. This includes ID of narcotics, despite cutting agents that traditionally fluoresce and fail analysis with 785 nm systems. Due to XTR, florescence rejection at 785 nm, MIRA XTR DS can interrogate sensitive materials including colored compounds.

CAPABILITIES OF MIRA XTR DS:

- Fluorescence rejection better detection and better ID of more substances
- ID of synthetic reagents used in the preparation of illicit materials, e.g., solvents, building blocks, activators, and other common chemicals
- ID of trace level concentrations of heroin and fentanly
- Preliminary analysis of street samples. Positive ID of heroin or cocaine

30% METHAMPHETAMINE IN DIESEL FUEL:



MIRA XTR DS is the best solution for Sensitive Site Exploitation (SSE) / Intelligence, Surveillance, and Reconnaisance (ISR) missions, determining synthetic routes to illicit materials, explosives, and CWAs.

Mission ready with rapid analysis of suspicious packages and positive ID of cutting agents, narcotics, and more.

MIRA XTR DS cuts through fluorescence to eXTRact the Raman signal and identify target substances.

MIRA XTR DS

OUR HARDWARE PROVIDES UNIQUE FLEXIBILITY FOR SAFE AND CONVENIENT SAMPLING

MIRA XTR DS is your pocket-sized companion for long missions in the field – identifying trace and bulk materials on a surface, in a bottle,

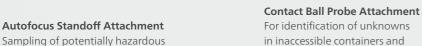
down a barrel, through containers or even across a room. Our interlocking Smart Attachments attach simply and securely, and they automatically let the system know what kind of test you are performing. Our PowerPack supports your mission all day, every day with hot-zone swappable power.

Supporting your mission with sampling power and flexibility









materials from up to 2.0 meters away.

For identification of unknowns in inaccessible containers and on surfaces.

Automatically switches Mira DS XTR from bulk ID mode to trace analysis mode when you need to detect trace drug residues or find the active drug component in a mixture.



Verify device performance before collecting evidence.

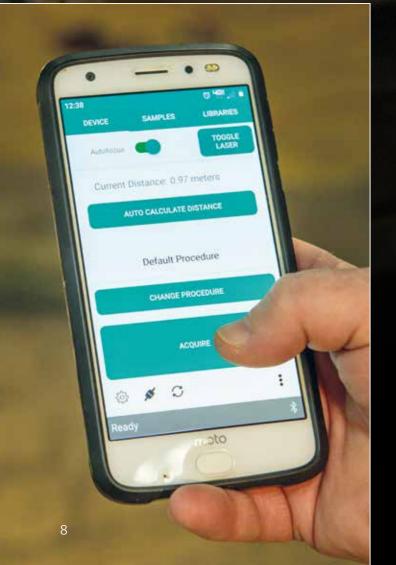
for long hours in the field.

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SERS Attachment

Supporting your mission with actionable intelligence

The HazmasterG3™ smart phone App is your virtual expert on site



Interface MIRA XTR DS with the HazmasterG3™ App to instantly provide actionable intelligence. You can predict products and get important chemical information about drugs, explosives, and CWAs. With this information, you can take immediate action to protect yourself, your team, and everyone else.

 SmartAquire: From sampling, library search, and mixture matching follow a simple guided procedure on the instrument's touch screen

MIRA XTR

Laser Ready

Default Procedure

Change Procedure

- Mixture matching automatically gives you the top three potential components of a mixture and reports them with color-coded chemical warnings.
- Connect to your support team or the world with the MiraCal M smartphone App for instant in-field risk management. Integrate pictures, coordinates, and send results at the touch of a button.

 HazMasterG3™ is a powerful smart phone App that provides color-coded chemical hazard warnings for >176,000 materials, including exposure and first aid advisories. HazMasterG3™ can also calculate likely mixture outcomes, giving you meaningful results about drugs, explosives, and CWAs.



ODERING INFORMATION

MIRA XTR DS Advanced 2.9260.120	
6.02707.020	MIRA DS Ruggedized Carrying Case
6.06071.020	Mira Cal DS USB Stick
6.07501.010	ASTM Calibration Standard
6.07506.000	Right Angle Attachment
6.07506.060	Intelligent Universal Attachment
6.07506.040	Mira SERS Attachment Collection Optics Accessory
6.07502.000	Mira Vial Holder Accessory
6.07507.000	Mira Blackout Cloth
6.2133.020	Lithium Battery AA 1,5 V / 2900 mAh
6.7430.060	NIR micro fiber cleaning cloth
6.02108.010	Cable USB Mini B – USB A 1,5m
6.7560.010	Protective Laser Glasses for Mira
6.6071.650	Mira Lib KnowltAll Full Raman Library Collection
MIRA XTR DS Basic 2.9260.110	
6.07501.010	ASTM Calibration Standard
6.07506.060	Intelligent Universal Attachment
6.02108.010	Cable USB Mini B – USB A 1,5m
Optional Accessories	
6.07506.030	Contact Ball Probe Attachment
6.07506.070	Autofocus Standoff Attachment
6.7560.200	MIRA PowerPack Kit
6.07507.100	MIRA DS Field Carry Pouch
6.6071.640	HazmasterG3 License

