



MIRA DS Advanced

2.926.0020

The Metrohm Instant Raman Analyzer (MIRA) DS is a ruggedized, high-performance, handheld Raman spectrometer used for rapid, nondestructive determination of illicit materials, e.g. drugs, explosives, starting materials, and hazardous agents. Despite the small size of the instrument, MIRA DS is extremely rugged and features a high-efficiency spectrograph equipped with our unique Orbital-Raster-Scan (ORS) technology.

The Advanced package includes a calibration standard, universal attachment for analyses in bottles or bags or for direct analysis, and the right-angle attachment, ideal for running samples on a surface and/or in a bag. Class 3B operation. MIRA DS supports Metrohm handheld Raman libraries.

Below, the accessories are grouped into Scope of delivery and Optional accessories. Please keep this printout at hand for ordering replacement material. These lists may be subject to change.

Scope of delivery 2.926.0020

Qt.	Order no.	Description
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50:50 (v:v) Toluene/Acetonitrile ASTM standard for calibration of the wavenumber axis of MIRA/MISA systems. Class 3B operation.



1.5V lithium AA batteries, 4 pieces.



Cleaning cloth for monitors and optics.



Proper laser safety precautions should be followed for the use of the MIRA products. Protection pursuant to EN 207 is offered with these protective glasses for the 785 nm laser excitation wavelength (also suitable for those who already wear eyeglasses). Work for long periods without difficulties, thanks to the lightweight construction and comfortable design of the protective laser glasses.



Optional accessories

Order no.	Description	
6.07506.020	Standoff Attachment	
	The Standoff Attachment is designed to allow the user to determine the spectrum of a substance from a distance of 0.25 to 1.5 meters. Perfect for determination of the contents of a 55-gallon drum or barrel or to stand in a doorway and scan a container from across the room.	
6.07506.030	Contact Ball Probe Attachment	
	The Contact Ball Probe Attachment is designed to allow the user to collect data from a sample with no concern of proper focus. Simply contact the sample or immerse the probe to acquire the data. The stainless steel construction allows for easy cleaning. Class 3B operation.	
6.6071.640	HazMasterG3® Software	
	HazMasterG3® delivers key insights and critical guidance for 167,000+ chemical agents (toxic industrial chemicals (TICs), toxic industrial materials (TIMs), chemical warfare agents (CWAs), precursors, trade names, etc.).	
6.07506.040	SERS Attachment	
	The SERS attachment enables the user to perform a very easy measurement of the SERS spectrum of a substance that has been applied to a P-SERS test strip. After applying a sample to the P-SERS test strip, the user simply inserts it into the slot of the SERS attachment for analysis.	

ID Kit, Illicit Materials

The ID Kit - Illicit Materials contains all the components a MIRA / MISA user requires to analyze a crude street sample and determine whether opioid and other illicit drugs are present.

The kit contains a disposable spatula, dropper, a small vial of solvent, and 2 silver P-SERS strips (Ag). The user simply scoops a small amount of the unknown sample into the vial of solvent and then either dip the P-SERS strip into the vial OR use the provided dropper to apply sample onto the strip.

The ID Kit allows the detection and identification of trace amounts of opioid, even in highly fluorescent street samples.



6.07505.020 XLWD Attachment Lens

Extra-long distance point-and-shoot Adapter (XLWD) for MIRA systems with a focal length of 18 mm. Class 3B operation.



6.07506.050 Protective Sheath for Contact Ball Probe

The disposable protective sheath is made of extremely thin LDPE and is used to prevent cross-contamination when using the ball probe in several containers. Quantity: 250 pieces.



6.07507.100 MIRA DS Field Carry Pouch

The MIRA DS Field Carry Pouch is a utility pouch with padded sides for carrying the MIRA into the field. It has space for MIRA, four AA batteries, the right-angle attachment, iUA, calibration standard, and a few ID Kits.

The Field Carry Pouch can be attached to any of the current military pouch /backpack systems.



6.07506.100 Silver P-SERS Substrate (Ag), 50 pieces

Silver P-SERS substrates (Printed SERS substrates). The substrates are designed to fit directly into the SERS attachment for optimal signal collection. Potential target analytes that show favorable performance with silver P-SERS substrates include illicit drugs, medicines, dyes and amines. Available in packs of 50.



6.07506.110 Silver P-SERS Substrate (Ag), 500 pieces

Silver P-SERS substrates (Printed SERS substrates). The substrates are designed to fit directly into the SERS attachment for optimal signal collection. Potential target analytes that show favorable performance with silver P-SERS substrates include illicit drugs, medicines, dyes and amines. Available in packs of 500.



6.07506.130 Gold P-SERS Substrate (Au), 50 pieces

Gold P-SERS substrates (Printed SERS substrates). The substrates are designed to fit directly into the SERS attachment for optimal signal collection. Potential target analytes that show favorable performance with gold P-SERS substrates include pesticides, medicines, and thiols. Available in packs of 50.



6.07506.140 Gold P-SERS Substrate (Au), 500 pieces

Gold P-SERS substrates (Printed SERS substrates). The substrates are designed to fit directly into the SERS attachment for optimal signal collection. Potential target analytes that show favorable performance with gold P-SERS substrates include pesticides, medicines, and thiols. Available in packs of 500.



6.07506.150 Gold P-SERS Substrate (Au), 5000 pieces

Gold P-SERS substrates (Printed SERS substrates). The substrates are designed to fit directly into the SERS attachment for optimal signal collection. Potential target analytes that are easier to detect with gold P-SERS substrates include pesticides, medicines, and thiols. Available in packs of 5000.



6.07506.120 Silver P-SERS Substrate (Ag), 5000 pieces

Silver P-SERS substrates (Printed SERS substrates). The substrates are designed to fit directly into the SERS attachment for optimal signal collection. Potential target analytes that show favorable performance with silver P-SERS substrates include illicit drugs, medicines, dyes and amines. Available in packs of 5000.



6.7560.200 MIRA PowerPack Kit

MIRA PowerPack Kit contains the MIRA PowerPack rechargeable external battery, a charger with USB-C socket, and a charger cable with USB-C plug. Designed for MIRA systems, the kit increases the period of usable charge to more than 8 hours.



607506160 Silver P-SERS Substrate (Ag), 25 pieces

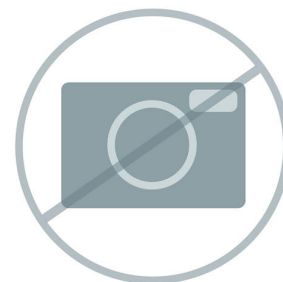
Silver P-SERS substrates (Printed SERS substrates). The substrates are designed to fit directly into the SERS attachment for optimal signal collection. Potential target analytes that show favorable performance with silver P-SERS substrates include illicit drugs, medicines, dyes and amines. Available in packs of 25.



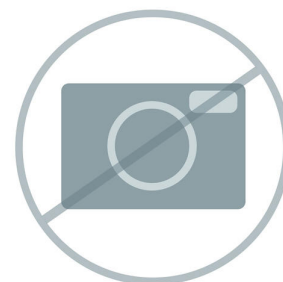
Gold P-SERS substrates (Printed SERS substrates). The substrates are designed to fit directly into the SERS attachment for optimal signal collection. Potential target analytes that show favorable performance with gold P-SERS substrates include pesticides, medicines, and thiols. Available in packs of 25.



MIRA Protective Boot provides an extra layer of safety to MIRA devices. Made with a chemically resistant TPA material and specially designed to work with all SmartTip Attachments, the protective boot easily installs for a ruggedized feel and extra protection.



PowerPack Protective Boot provides an extra layer of safety to PowerPack. Made with a chemically resistant TPA material and specially designed to work with Mira, the protective boot easily installs for a ruggedized feel and extra protection.



Maximize safety with standoff identification of chemicals, explosives, drugs, and toxic materials.

- Identify threats from 2 meters away
- Operate remotely when risk is high
- Get quick and easy information with automated routines
- Identify >20,000 substances in seconds
- Robot mountable for complete hot-zone assessment



MIRA (Metrohm Instant Raman Analyzer) library of illicit materials including drugs, TICs, TIMs, precursors, and general chemicals.



6.07505.010

SWD Attachment Lens

Short distance point-and-shoot Adapter (SWD) for MIRA systems with a focal length of 1.00 mm. Class 3B operation.



6.07505.000

LWD Attachment Lens

Long distance point-and-shoot Adapter (LWD) for MIRA systems with a focal length of 7.6 mm. Class 3B operation.



6.07502.000

Vial Holder

Vial holder attachment for MIRA systems. Accommodates 15 x 26 mm glass vials.



6.7502.010

Glass Vials for MIRA, 144 pieces

Glass vials for use with MIRA systems. 15 mm x 26 mm.

144 glass vials are included in the scope of delivery.

