



MIRA P Basic

The Metrohm Instant Raman Analyzer (MIRA) P is a high-performance, portable Raman spectrometer used for rapid, nondestructive determination and verification of different material types, such as pharmaceutical APIs and auxiliary materials. Despite the small size of the instrument, the MIRA P is highly ruggedized and features a high-efficiency spectrograph equipped with our unique Orbital-Raster-Scan (ORS) technology. The MIRA P complies with the directives of FDA 21 CFR Part 11 in their entirety.

MIRA P Basic package allows the user to customize the MIRA P to meet their needs. The MIRA P Basic package is a starter package that contains the basic components required for operating the MIRA P.

The Basic package contains the MIRA calibration/verification accessories, the USP library, and the LWD attachment for analyses in bottles or bags. Laser Safety Class 3B operation.

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

Qt.	Order no.	Description
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The USP library for the MIRA M-3/P contains more than 500 certified secondary USP standards for pharmaceutical API's and excipients.



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



50:50 (v:v) Toluene/Acetonitrile ASTM standard for calibration of the wave number axis of MIRA M-3/P spectrometers and polystyrene for wave number verification according to EP 2.2.48.



The Metrohm Instant Raman Analyzer (MIRA) P is a high-performance, handheld Raman spectrometer used for rapid, nondestructive determination and verification of different material types, such as Pharmaceutical APIs and excipients. Despite the small size of the instrument, the Mira P has a ruggedized design and features a high-efficiency spectrograph design equipped with our unique Orbital-Raster-Scan (ORS) technology. The Mira P is fully compliant with FDA 21 CFR Part 11 regulations.

The Advanced Package includes an attachment lens for analyzing materials directly or through containers (laser class 3b), as well as a vial holder attachment for analyzing samples contained in glass vials (laser class 1).



Optional accessories

Order no.	Description	
6.02707.020	MIRA DS Robust Carrying Case Robust carrying case for MIRA DS and all accessories.	
6.02707.400	MIRA P Protective Case Protective case for the Mira P and all accessory parts.	
6.06071.030	MIRA P USB stick User-friendly software that is primarily used for downloading and analyzing data, printing reports, creating spectral libraries and operating procedures, as well as managing compliance with FDR 21 CFR Part 11 regulations.	
60607310	MIRA P Comprehensive USP Raman Library Metrohm Comprehensive USP Raman Library for MIRA P containing ~ 900 traceable certified items.	

6.07502.000 Vial Holder

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



Tablet Holder

Tablet holder attachment for MIRA systems that is used for analysis of formulated tablets of various sizes and shapes.



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.



6.07505.020 XLWD Attachment Lens

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



6.07506.000 Right-Angle Attachment

The right-angle attachment is designed to allow the user to collect data by placing the substance on a surface and then laying the MIRA down next to it with the right angle tip covering the substance. Ideal for a baggy on hood of a squad car. Eliminates many of the variables during testing. Class 3B operation.



6.07506.010 Universal attachment

The Universal attachment is designed to be a universal tip for use in three different positions. Position 3 is used for direct contact. Position 2 is used for thin plastic bags, for which the focal point is approximately 1.0 mm from the end of the adapter. Position 1 is used for focusing through bottles, for which the focal point is approximately 8 mm from the end of the metal tip. Class 3B operation.



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.



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.



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.



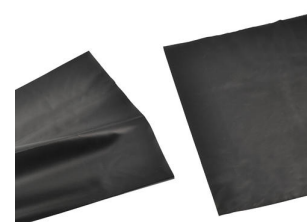
6.07506.060 Intelligent Universal Attachment (iUA)

iUA is an intelligent 3-position collection optics accessory for MIRA systems. The iUA combines the flexibility of a universal attachment with the intelligent mode of operation of MIRA SmartTip Attachments. Each position indicates the ideal purpose of that position, i.e. surface, bag, or bottle.



6.07507.000 Mira Sampling Blackout Cloth

Optical Blackout cloth for sampling in sunlight conditions.



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.



6.2133.030 MIRA PowerPack

MIRA PowerPack rechargeable external battery is designed for MIRA devices. Increases the period of usable charge to more than 8 hours.



6.2168.020 USB-C Charger

Charger with USB-C socket for MIRA PowerPack.



6.7430.060 Micro Fiber Cleaning Cloth

Cleaning cloth for monitors and optics.



6.7502.010

Glass Vials for MIRA, 144 pieces

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

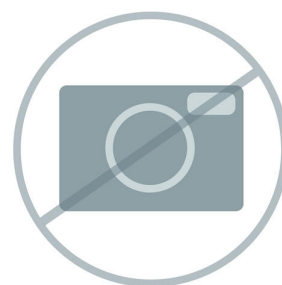
144 glass vials are included in the scope of delivery.



6.7503.100

MIRA Protective Boot

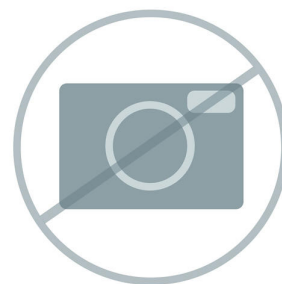
MIRA Protective Boot provides an extra layer of safety to MIRA devices. Made with a chemically resistant TPA material and specially designed to work with all SmartTip Attachments, the protective boot easily installs for a ruggedized feel and extra protection.



6.7503.110

PowerPack Protective Boot

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.



66071634

MIRA Illicit and General Chemicals Library

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



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MIRA Comprehensive Raman Library

MIRA Metrohm Comprehensive RamanLibrary- More than 29,000 spectral entries of chemicals, minerals, organic chemicals, solvents, polymers, dyes and pigments, TICs, TIMs, inorganics and organometallics, personal care products, and illicit materials..



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MIRA MCRL Organics - Sulfur Group

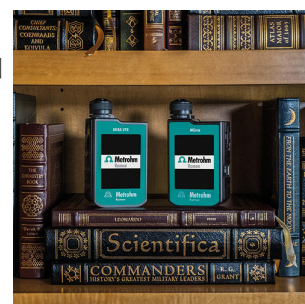
Metrohm Comprehensive Raman Library (MCRL) Organics - Sulfur Group for MIRA.



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MIRA MCRL - Inorganics and Organometallics

Metrohm Comprehensive Raman Library (MCRL) Inorganics and Organometallics for MIRA.



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MIRA MCRL - Personal Care Products

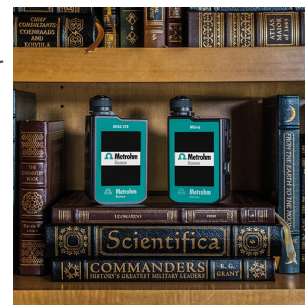
Metrohm Comprehensive Raman Library (MCRL) Personal Care Products for MIRA.



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MIRA MCRL - Polymers and Polymer Additives

Metrohm Comprehensive Raman Library (MCRL) Polymers and Polymer Additives for MIRA.



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MIRA MCRL - Dyes, Pigments, and Stains

Metrohm Comprehensive Raman Library (MCRL) Dyes, Pigments, and Stains for MIRA.



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MIRA MCRL - Pesticides

Metrohm Comprehensive Raman Library (MCRL) Pesticides for MIRA.



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MIRA MCRL - Biochemicals

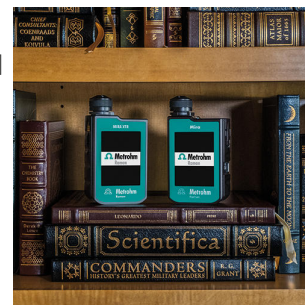
Metrohm Comprehensive Raman Library (MCRL) Biochemicals for MIRA.



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MIRA MCRL - API

Metrohm Comprehensive Raman Library (MCRL) Active Pharmaceutical Ingredients (API) for MIRA.



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MIRA MCRL - Organics

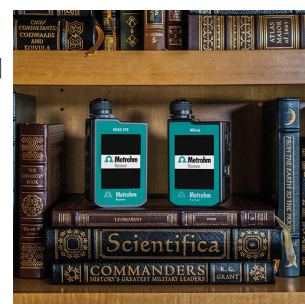
Metrohm Comprehensive Raman Library (MCRL) Organics for MIRA.



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MIRA MCRL Organics - Halogenated

Metrohm Comprehensive Raman Library (MCRL) Organics - Halogenated for MIRA.



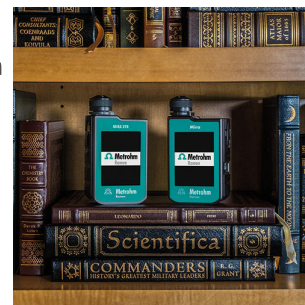
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MIRA MCRL Organics - Nitrogen Group

Metrohm Comprehensive Raman Library (MCRL) Organics - Nitrogen Group for MIRA.



Metrohm Comprehensive Raman Library (MCRL) Organics - Oxygen Group for MIRA.



6.7560.010

Protective Laser Glasses for MIRA

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.



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.

