MIRA P Advanced

2.927.0020

El Metrohm Instant Raman Analyzer (MIRA) P es un potente espectrómetro Raman portátil que se puede utilizar para determinar y verificar de forma rápida y no destructiva los más diversos materiales como, por ejemplo, principios activos y excipientes de uso farmacéutico. Pese a su pequeño tamaño, el MIRA P es muy robusto y cuenta con un espectrógrafo de diseño muy eficiente, que está equipado con nuestra extraordinaria tecnología Orbital Raster Scan (ORS). El MIRA P cumple la normativa FDA 21 CFR Parte 11.

El paquete Advanced incluye una lente adicional con la que los materiales se pueden analizar directamente o en sus recipientes (láser de clase 3b) y un accesorio de soporte de vial para analizar las muestras que se encuentran en viales de vidrio (láser de clase 1).

Partes/accesorios 2.927.0020

Qt.	Order no.	Descripción

1 PCS 1.927.0020 Mira P

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).

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1 PCS 6.021.08010 Cable USB Mini - USB A, 1.5 m

For connecting USB instruments.

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1 PCS 6.02707.400 MIRA P Protective Case

Protective case for the Mira P and all accessory parts.

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1 PCS 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.

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1 PCS 6.06071.040 Calibrate/Verify Accessory (CVA)

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.

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1 PCS 6.06073.000 Raman Spectral USP Library

The USP library for the MIRA M-3/P contains more than 500 certified secondary USP standards for pharmaceutical API's and excipients.

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1 PCS 6.07502.000 Vial Holder

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

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1 PCS 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.

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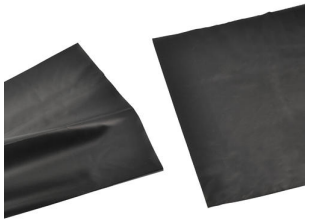
1 PCS 6.07507.000 Mira Sampling Blackout Cloth

Optical Blackout cloth for sampling in sunlight conditions.



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1 PCS 6.2133.020 Lithium battery AA 1.5V/ 2900 mAh

1.5V lithium AA batteries, 4 pieces.

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1 PCS 6.2151.110 Metrohm USB Mini B cable (OTG) - USB A, 1.8 m

For connecting USB instruments.

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1 PCS 6.7430.060 Micro Fiber Cleaning Cloth

Cleaning cloth for monitors and optics.

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1 PCS 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.

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1 PCS 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.

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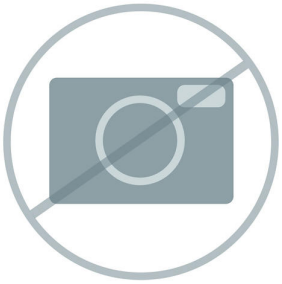
1 PCS 6.7560.200 MIRA PowerPack Kit

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.

Accesorios opcionales

Order no.	Descripción
60607310	MIRA P Comprehensive USP Raman Library Metrohm Comprehensive USP Raman Library for MIRA P containing ~ 900 traceable certified items. 
6.06073.602	Raman spectral library for the pharmaceutical industry Raman spectra of active substances and auxiliary materials that are relevant to the pharmaceutical industry and medical research (> 1,170) 
6.06073.603	Raman spectral library for the solvents Raman spectra of solvents (> 460 spectra). 
6.06073.604	Raman spectral library for the polymer industry Raman spectra of polymers, polymer additives, plastics, plasticizers, and packaging materials (> 920 spectra). 

6.06073.605 Raman spectral library of aldehydes and ketones

Raman spectra of aliphatic and aromatic aldehydes and ketones (> 1,070 spectra).

6.06073.606 Raman spectral library of alcoholic and phenolic compounds

Raman spectra of alcoholic and phenolic compounds (> 890 spectra).

6.06073.607 Raman spectral library of esters, lactones, and anhydrides

Raman spectra of esters, lactones, and anhydrides (> 2,930 spectra).

6.06073.608 Raman spectral library of (halogenated) hydrocarbons

Raman spectra of hydrocarbons and halogenated hydrocarbons (> 560 spectra).

6.06073.609 Raman spectral library for the semiconductor industry

Raman spectra of chemical substances that are used in the semiconductor industry (> 370 spectra).

6.06073.610 Raman spectral library of hazardous substances (EPA, USCG)

Raman spectra of selected hazardous substances that are listed in the "EPA Cameo Database for Chemical Emergencies and Responders" and the "USCG CHRIS Hazardous Chemicals Database (> 1,360 spectra).

6.06073.611 Raman spectral library for hazardous substances (EPA, USCG, NIOSH)

Raman spectra of selected hazardous substances that are listed in the "EPA Cameo Database for Chemical Emergencies and Responders", "USCG Chris Hazardous Chemicals Database" and "NIOSH Guide to Chemical Hazards Databases", as well as chemicals that are regulated by the "Toxic Substances Control Act" (> 3,030 spectra).

6.06073.612 Raman spectral library for forensic analysis

Raman spectra of substances that are relevant to forensic analysis (> 740 spectra).

6.06073.613 Raman spectral library of agricultural chemicals

Raman spectra of pesticides, insecticides, herbicides, fungicides, algicides, and similar agricultural chemicals (> 460 spectra).

6.06073.614 Raman spectral library for the dye industry

Raman spectra of selected dyes, colorants, pigments, and indicators (> 300 spectra).

6.06073.615 Raman spectral library of sulfur and phosphorus compounds

Raman spectra of sulfur and phosphorus compounds (> 970 spectra).

6.06073.616 Raman spectral library of substances with a high production volume

Raman spectra of substances with a high production volume, as listed in the "HPV Challenge Program Chemical List" (> 690 spectra).

6.06073.617 Raman spectral library of minerals and inorganic materials

Raman spectra of minerals and inorganic materials (> 1,410 spectra). This library is not included in the complete Raman spectral library (6.6071.601). The library is comprised of > 450 Raman spectra of minerals and > 960 Raman spectra of inorganic materials.

6.06073.618 Raman spectral library of minerals

Raman spectra of minerals (> 450 spectra; extracted from the 6.6071.617 spectral library).

6.06073.619 Raman spectral library of inorganic materials

Raman spectra of inorganic materials (>960 spectra; extracted from the 6.6071.617 spectral library).

6.06073.620 Raman spectral library of food additives

Raman spectra of food additives, including FDA-controlled substances. Additionally, spectra of indirect food additives and substances that come into contact with foodstuffs, such as packaging materials and associated processing chemicals (> 1,070 spectra).

6.06073.621 Raman spectral library of biochemicals

Raman spectra of biochemicals, including vitamins, resins, starches, glycerins, fatty acids, sugars, carbohydrates, proteins, and peptides (> 1,900 spectra).

6.06073.622 Raman spectral library of flavors and scents

Raman spectra of flavors, scents, and other substances that are used for manufacturing cosmetics and fragrances (> 1,030 spectra).

6.07504.000 Tablet Holder

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

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.

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.

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.

6.7503.100 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.