

## 2.927.0020

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**1**      **1.927.0020**      **Mira P Advanced**

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**      **6.02707.400**      **Case for Mira P and accessories**

Protective case for the Mira P and all accessory parts.




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**1**      **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**      **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**      **6.07502.000**      **Vial Holder**

Vial holder attachment for Mira M-3/P/DS. Accommodates 15 x 26 mm glass vials.




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**1**      **6.07505.000**      **Attachment lens (LWD)**

Long distance point-and-shoot Adapter (LWD) for the Mira M-3/P/DS Advanced Package with a focal length of 7.6 mm. Class 3B operation.



1	<b>6.07505.010</b>	<b>Attachment lens (SWD)</b>	Short distance point-and-shoot Adapter (SWD) for the Mira M-3/P/DS Advanced Package with a focal length of 1.00 mm. Class 3B operation.	
1	<b>6.07507.000</b>	<b>Mira Sampling Blackout Cloth</b>	Optical Blackout cloth for sampling in sunlight conditions.	
1	<b>6.2133.020</b>	<b>Lithium battery AA 1.5V/ 2900 mAh</b>	1.5V lithium AA batteries, 4 pieces.	
1	<b>6.2151.110</b>	<b>Cable USB MINI (OTG) - USB A, 1.8 m</b>	For connecting USB instruments.	
1	<b>6.2166.000</b>	<b>USB power supply unit 5V 1A R</b>	Power supply unit for the power supply of the 6.1115.100 Optrode if there is no USB connector available for this purpose on a Metrohm device (e.g. with older devices).	
1	<b>6.7430.060</b>	<b>Micro Fiber Cleaning Cloth</b>	Cleaning cloth for monitors and optics.	
1	<b>6.7502.010</b>	<b>Glass Vials for Mira, 144 pieces</b>	Glass vials for use with Mira M-3/P/DS Basic and Advanced packages. 15 mm x 26 mm. 144 glass vials are included in the scope of delivery.	

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**1      6.7560.010      Protective laser glasses for Mira Advanced Packages**

Protective laser glasses adjusted for the laser specifications of the Mira M-3/P/DS.



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**6.06073.601 Complete collection of Raman spectra (> 8,690 spectra)**

Metrohm provides an extensive collection of Raman spectra for Mira spectrometers. The complete Raman spectral library, with more than **8,690** spectra, is comprised of 21 sublibraries and is thus eminently suited for the identification of unknown Raman spectra and for the characterization of a very wide variety of materials.



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**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**)



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**6.06073.603 Raman spectral library for the solvents**

Raman spectra of solvents (> **460** spectra).



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**6.06073.604 Raman spectral library for the polymer industry**

Raman spectra of polymers, polymer additives, plastics, plasticizers, and packaging materials (> **920** spectra).



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**6.06073.605 Raman spectral library of aldehydes and ketones**

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



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**6.06073.606 Raman spectral library of alcoholic and phenolic compounds**

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



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**6.06073.607 Raman spectral library of esters, lactones, and anhydrides**

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



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**6.06073.608 Raman spectral library of (halogenated) hydrocarbons**

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



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**6.06073.609 Raman spectral library for the semiconductor industry**

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



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**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).



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**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).



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**6.06073.612 Raman spectral library for forensic analysis**

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



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**6.06073.613 Raman spectral library of agricultural chemicals**

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



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**6.06073.614 Raman spectral library for the dye industry**

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



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**6.06073.615 Raman spectral library of sulfur and phosphorus compounds**

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



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**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).



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**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.



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**6.06073.618 Raman spectral library of minerals**

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



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**6.06073.619 Raman spectral library of inorganic materials**

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



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**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).



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**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).



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**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).



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**6.07501.010 ASTM Calibration Standard**

50:50 (v:v) Toluene/Acetonitrile ASTM standard for calibration of the wavenumber axis of M-3/P/DS spectrometers. Class 3B operation.



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**6.07504.000 Tablet Holder**

Tablet holder attachment for the Mira M-3/P/DS that is used for analysis of formulated tablets of various sizes and shapes.



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**6.07505.020 Attachment lens (XLWD)**

Extra-long distance point-and-shoot Adapter (XLWD) for the Mira M-3/P/DS Advanced Package with a focal length of 18 mm. Class 3B operation.



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**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.



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**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 <math>< 1.0\text{ mm}</math> 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.



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**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.



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**6.07506.050 Protective sheath for contact ball probe**

The disposable protective sheath is an extremely thin latex sheath used to prevent cross-contamination when using the ball probe in multiple containers. Quantity: 250 pieces.



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**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 DS into the field. It has space for the Mira DS, four 2AA batteries, the right angle attachment, universal attachment, calibration standard, and a few ID Kits. The Field Carry Pouch can be attached to any of the current military pouch/backpack systems.



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**6.7560.200 Mira Power Pack Kit**

The Mira Power Pack Kit contains the Mira Power Pack rechargeable external battery, a charger with USB-C socket and a charger cable with USB-C plug. Designed for Mira M3, Mira P and Mira DS, the kit increases the period of usable charge to more than 8 hours.

