



MISA Advanced

2.950.0020

Metrohm Instant SERS Analyzer (MISA) is a high performance, portable analyzer system used for rapid, trace level detection / identification of illicit materials, food additives and food contaminants. MISA features a high-efficiency spectrograph equipped with Metrohm's unique Orbital-Raster-Scan (ORS) technology. It has a minimal footprint and extended battery life, perfect for on-site testing or mobile laboratory applications. MISA offers various Laser Class 1 attachments for flexible sampling options. Analyzer operation is available through BlueTooth or USB connectivity.

The MISA Advanced package is a complete package that allows the user to perform SERS analyses using Metrohm's nanoparticle solutions and P-SERS strips.

The MISA Advanced package includes a MISA Vial Attachment, a P-SERS Attachment, a ASTM Calibration Standard, a USB Mini Cable, a USB Power Supply and MISA Cal software for operating the MISA instrument. A ruggedized protective case is also provided to securely store the instrument and accessories.

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 2.950.0020

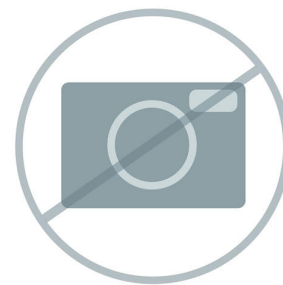
Qt.	Order no.	Description
1 PCS	6.07501.010	ASTM Calibration Standard
		50:50 (v:v) Toluene/Acetonitrile ASTM standard for calibration of the wavenumber axis of MIRA/MISA systems. Class 3B operation.
		
1 PCS	6.7430.060	Micro Fiber Cleaning Cloth
		Cleaning cloth for monitors and optics.
		
1 PCS	1.950.0010	Misa Instrument
		Metrohm Instant SERS Analyzer (Misa) is a high performance, portable analyzer used for rapid, trace level detection / identification of illicit materials, food additives and food contaminants. Misa features a high-efficiency spectrograph equipped with Metrohm's unique Orbital-Raster-Scan (ORS) technology. Thanks to its compact design and extended battery life, it is perfect for on-site testing or mobile laboratory applications. Various Laser Class 1 attachments are available for the Misa, ensuring flexible sampling options. The analyzer can be operated via Bluetooth or a USB connection.
		

1 PCS

6.02707.030

Misa ruggedized carrying case

Rugged carrying case for Misa and all accessories.



1 PCS

6.07505.030

P-SERS Attachment

Accommodates Metrohm's proprietary P-SERS strips. Operation with laser class 1. The P-SERS attachment allows full insertion of P-SERS strips ensuring optimal measurement conditions.



1 PCS

6.07505.040

MISA Vial Attachment

Suitable for 15 x 26 mm glass vials. MISA vial attachment can be used for measurements with Metrohm's gold or silver SERS nanoparticles. Laser Class 1 operation.



Optional accessories

Order no.	Description
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. 
607506170	Gold P-SERS Substrate (Au), 25 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 25. 
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. 
6.07506.130	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. 

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.



6.07506.110 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.



6.07506.120 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.



6.07506.140 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.



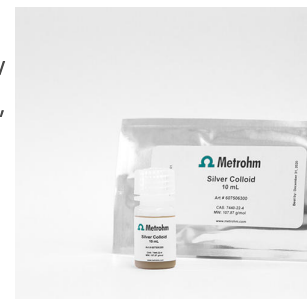
6.07506.150 Gold P-SERS Substrate (Au), 5000 pieces

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.



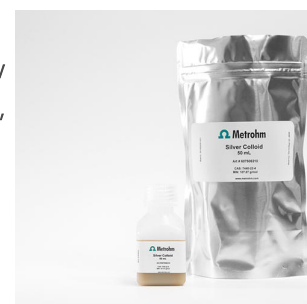
607506300 Silver Colloid, 10 mL

SERS active silver colloidal solution. Potential target analytes that show favorable performance with silver colloid include illicit drugs, medicines, dyes, and amines - 10 ml package.



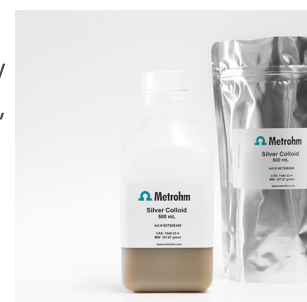
607506310 Silver Colloid, 50 mL

SERS active silver colloidal solution. Potential target analytes that show favorable performance with silver colloid include illicit drugs, medicines, dyes, and amines - 50 ml package.



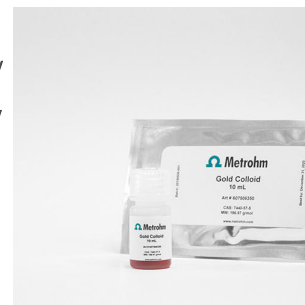
607506340 Silver Colloid, 500 mL

SERS active silver colloidal solution. Potential target analytes that show favorable performance with silver colloid include illicit drugs, medicines, dyes, and amines - 500 ml package.



607506350 Gold Colloid, 10 mL

SERS active gold colloidal solution. Potential target analytes that show favorable performance with gold colloid include pesticides, medicines, and thiols - 10 mL package.



607506360 Gold Colloid, 50 mL

SERS active gold colloidal solution. Potential target analytes that show favorable performance with gold colloid include pesticides, medicines, and thiols - 50 mL package.



607506390 Gold Colloid, 500 mL

SERS active gold colloidal solution. Potential target analytes that show favorable performance with gold colloid include pesticides, medicines, and thiols - 500 mL package.



6.07506.440 ID Kit – Au NP

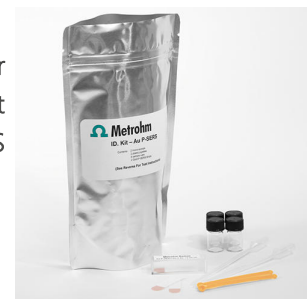
The ID Kit - Au NP contains the components a Mira / Misa user requires to perform a SERS analysis using gold colloidal solution. The kit contains a disposable spatula, dropper, sample vials and a bottle of gold colloid.



The ID Kit - Ag NP contains the components a Mira / Misa user requires to perform a SERS analysis using silver colloidal solution. The kit contains a disposable spatula, dropper, sample vials, and a bottle of silver colloid.



The ID Kit - Au P-SERS contains the components a Mira / Misa user requires to perform a SERS analysis using gold P-SERS strips. The kit contains a disposable spatula, dropper, sample vials and 2 gold P-SERS strips.



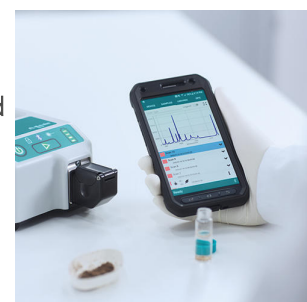
SERS Library - Illicit Materials

SERS spectral library of illicit materials commonly encountered by law enforcement in street samples, including heroin, cocaine, methamphetamine, MDMA and more.



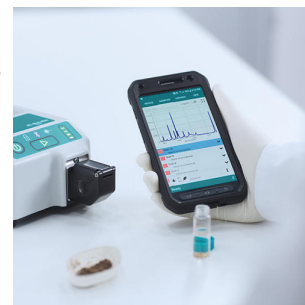
SERS Library - Food Additives

SERS spectral library of illegal additives and adulterants commonly found in food.



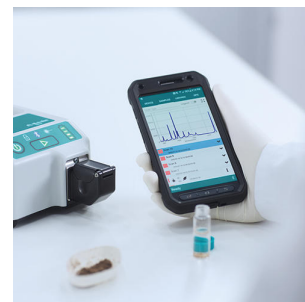
SERS Library - Dyes

SERS spectral library of natural and artificial dyes commonly found in food.



SERS Library - Pesticides

SERS spectral library of pesticides commonly found in food.



607506480

SERS Discovery Kit

Introductory kit for SERS analysis containing gold and silver P-SERS strips and gold and silver colloids.



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.

