

# CHIMIA REPORT/COMPANY NEWS

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Companies present themselves and their products

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## Smaller and Faster: Mira M-3 Handheld Raman Spectrometer for On-site Verification of Materials in Seconds

**The Mira M-3 is the new handheld Raman spectrometer from Metrohm. Barely larger than a smartphone, the Mira M-3 enables true single-handed operation. The new Metrohm Raman spectrometer meets the regulatory requirements of FDA CFR 21 Part 11 making it the preferred solution for fast, straightforward QC in the pharmaceutical industry.**

Operating Procedures can be customized on the Mira M-3 to allow sampling flexibility. Routine users start their measurements at the push of a button to verify the identity of materials with a pass/fail result in a few seconds.

Dedicated sampling attachments such as a Vial Holder (for powders and liquids) and a Tablet Holder (for tablets and pills) are part of the Mira M-3 and can be used without any further laser protection (Laser Safety Class 1). Point-and-shoot attachments are also available for contact measurements through barriers (e.g., glass bottles).

The Mira M-3 is fully compliant with FDA 21 CFR Part 11 providing multilevel access control, audit trails, secure electronic records and other features to exceed regulatory requirements.

### Get fast, accurate, and reliable results

With the Mira M-3, you will get accurate results in just seconds. After collecting spectra for a few seconds, the instrument will give you a clear "Pass" or "Fail" result.

The instrument calculates the result on the basis of multivariate probabilistic algorithms to verify the identity of raw materials. This approach is much more accurate and reliable than traditional HQI spectral matching.

### Ensure regulatory compliance (FDA 21 CFR Part 11)

The Mira Cal software provided with the Mira M-3 instrument offers many features that help you to ensure secure and well-documented procedures in compliance with FDA 21 CFR Part 11 regulations:

- Multilevel access control, including three predefined access levels and optional password ageing and complexity requirements
- Audit trails to log all actions on the instruments

- Secure electronic records that are synced to a secure database on a PC
- Reports containing all required information (instrument info, parameters, electronic signatures) are generated at the push of the button

### Simplify raw material verification

The built-in barcode scanner can be used to automatically populate the sample name and the Lot ID by scanning the barcode prior to acquisition.

### About Metrohm AG



Metrohm – from start-up to global player Metrohm is one of the world's most trusted manufacturers of high-precision instruments for chemical analysis. Metrohm was founded in 1943 by engineer Bertold Suhner in Herisau, Switzerland.

Today, we are present in more than 80 countries with our own subsidiaries and exclusive distributors.

Headquartered in Herisau, Switzerland, the Metrohm Group also includes Metrohm Applikon and Metrohm Autolab, manufacturers of online analyzers and instruments for electrochemical research, respectively.

### Comprehensive solutions for chemical analysis

We are the global market leader in analytical instruments for titration. Instruments for ion chromatography, voltammetry, conductivity, and stability measurement make our portfolio for ion analysis complete. Near-infrared and Raman spectroscopy is another, strongly growing segment of our portfolio.

We cater to both: the laboratory and the production floor. The techniques and methods for laboratory analysis are also available for automated in-process analysis. Metrohm Applikon has created a wide range of solutions covering any needs in a variety of industries.

The Metrohm Process Analytics brand embodies Metrohm's expertise in lab chemistry and Metrohm Applikon's decades of know-how in process analysis.

### Analyzers for electrochemical research

Metrohm Autolab, our Dutch subsidiary, manufactures instruments for electrochemical research. This segment is strongly growing as more and more funds are allocated to research on fuel cells, batteries, and more.

### Raman spectroscopy

Metrohm Raman, based in Laramie, Wyoming (USA), develops and produces handheld Raman spectrometers. This latest addition to the Metrohm family expands the Metrohm portfolio to include novel, portable instruments for materials identification and verification.

### We are closer to you

If there was a phrase to put our philosophy in a nutshell, it would be «closer to you» – in a very comprehensive sense of the phrase. Our instruments and services are not available from dealers. It is always you and your local Metrohm sales representative, service engineer, or application specialist. They speak your language, they are professionals like you, and more likely than not, you may have known them for years.

Unparalleled expertise and application know-how. We have always kept a focus on the practical application of our instruments.

If you are facing a particular analytical challenge, you are likely to find a solution among our thousands of applications documented in our databases. If you cannot find it there, we are happy to develop it for you.

### Quality made in Switzerland

Quality you can trust: Our Swiss-made instruments and products offer you exceptional quality. In addition, you can rely on us as a supplier in terms of service quality, sustainability, and social responsibility.

<http://www.metrohm.com>