

SERSTECH ARX



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Small enough to fit in your pocket – big enough to redefine Raman

Serstech Arx is a revolutionizing instrument, introducing SharpEye™ – a patented autofocus technology for handheld Raman instruments. Serstech Arx makes it easier to identify unknown substances and to take decisions.

Serstech Arx and SharpEye™ give a precise result since SharpEye automatically finds the most optimal spot when making a measurement. It can detect the difference between the container and the actual substance, giving an improved measurement result. The autofocus makes it possible to detect and minimize fluorescence from containers.

Serstech Arx is built on a modern software platform, putting usability and algorithms in focus. The brand new graphical user interface is easy to navigate and new features such as Guided Scan™ and the Quick Access™ feature make it possible to get precise results, faster. Serstech Arx is lighter and smaller compared to other models on the market and yet – even more powerful. Serstech Arx lets users get focused on what is important and take decisions based on reliable measurement results – wherever they are.

Libraries:

Explosives. Includes military and civilian explosives, IEDs, precursors and oxidants.

Narcotics. Narcotic and psychotropic substances from the UN Yellow and Green lists, including precursors.

Hazardous Chemicals. Contains more than 2200 TICs (Toxic Industrial Chemicals) and other toxic or hazardous materials.

Chemical Warfare Agents. Blister, blood, nerve and choking agents, and their precursors.

Pharmaceuticals. Tailormade library developed for and together with pharmaceutical companies.

- Autofocus - SharpEye™
- Intuitive user interface
- Management and reporting software included
- No consumables, no maintenance cost
- Create libraries and add your own substances
- Wi-Fi
- Quick scan
- Workflows
- Barcode reader
- 5 year warranty



SERSTECH
Simplicity. Speed. Precision.



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|-----------------------------|---|
| Instrument type | Handheld Raman spectrometer |
| Laser excitation wavelength | 785nm |
| Barcode reader | Yes, QR and most common barcode format |
| Laser output power | 3 levels, max 300mW |
| Max spectral range | 400 cm ⁻¹ to 2 300 cm ⁻¹ |
| Autofocus | Serstech SharpEye™ technology (0-4mm) |
| Spectral resolution | 8-10 cm ⁻¹ |
| Detector type | Linear CCD Array |
| Display | 3.5" Transflective TFT with LED backlight |
| Memory | More than 100 000 measurements |
| Data formats | .txt, .csv, .jcamp |
| Connectivity | USB C, Wi-Fi |
| Battery | Rechargeable - more than 12 hours of typical use |
| Weight | 590 g (1.3 lb) |
| Size | 149 mm x 83 mm x 28 mm (5.9 x 3.3 x 1.1") |
| Operating temperature | -20°C to +50°C (-4°F to 122°F) |
| Storage temperature | -30°C to +50°C (-22°F to 122°F) |
| Included accessories | Vial holder, 90° angle adapter, watertight case, protective cap with calibration target, sample vials, USB C cable, AC adapter 5 VDC/1 A USB for charging |
| Optional accessories | SERS kit to identify low concentration and fluorescent samples |
| Start-up time | Less than 20 sec. in room temperature |
| Scan time | Most substances less than 10 sec. |
| Exposure | Auto-exposure or manual exposure, 0.001 – 60 seconds. |
| Optional libraries | Explosives, incl. precursors; Narcotics incl. cutting agents, masking agents & precursors; Chemical Warfare Agents, incl. simu-lants; Hazardous materials, incl. toxic industrial chemicals; Pharmaceuticals with a wide range of active pharmaceutical ingredients. Total number of substances is more than 14 000 |
| Warranty | 5 year. Additional warranty optional |
| MTBF | 50 000 h |
| Relative humidity | 5-90% |
| Approvals | CE, IEC 60529 IP67, MIL-STD-810G 514.6 (vibration), MIL-STD-810G 516.6 (functional shock), SWGDRUG category A compliant for presumptive testing |
| Supported languages | Chinese, Danish, English, French, Indonesian, Italian, Japanese, Korean, Polish, Russian, Spanish, Swedish and Vietnamese. Additional languages on request. |
| Software included | ChemDash Lite. Optional software: ChemDash Pro |
| Type of substances | Solid, liquids, powders and tablets |
| Mixture analysis | Yes |
| Delay function | Yes, 1 second to 15 minutes |
| Additional features | User authorization, event logging, scan time delay, user-defined libraries, user-added substances, workflows |



Contact Us

To learn more about Serstech please visit www.serstech.com or contact sales@serstech.com