

# Serstech Arx Pharma mkII



## Simplicity. Speed. Precision.

**Serstech Arx Pharma mkII is a revolutionizing instrument, introducing SharpEye™ – a patented autofocus technology for handheld Raman instruments. Serstech Arx Pharma mkII will make it easier to identify and verify substances.**

Serstech Arx Pharma mkII is packed with new features, simplifying the workflow when verifying substances at incoming inspection. Serstech introduces SharpEye™, a patented and market unique autofocus technology made for handheld Raman spectrometers. Serstech SharpEye automatically finds the optimal spot to measure. Together with new powerful algorithms, Serstech Arx Pharma mkII finds precise results for single substances and for complex mixes.

Serstech Arx Pharma mkII comes with a built-in barcode reader which makes it possible to tie a measurement to a container by scanning barcodes or QR codes.

The brand new graphical user interface is easy to navigate and new features such as Guided Scan™ and Quick Scan™ makes it possible to get results, faster. The results are presented in a simple way, making it easy to interpret and take decisions. Serstech Arx Pharma mkII is lighter and smaller compared to previous Serstech models and yet – even more powerful. The device can be brought to wherever it is needed and all measurements can be synced with ChemDash software, over Wi-Fi, in real time. Serstech Arx Pharma mkII focuses on what is important.

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



# Serstech Arx Pharma mkII

## Instrument Specifications

|                             |  |
|-----------------------------|--|
| Instrument type             | Handheld Raman spectrometer                                  |
| Weight                      | 590 g (1.3 lb)   |
| Size                        | 160 mm x 85 mm x 28 mm (6.2 x 3.3 x 1.1)                     |
| Laser excitation wavelength | 785nm  |
| Laser output power          | Max 300mW, user adjustable                                   |
| Barcode reader              | Yes, QR and most common barcode formats                      |
| Max spectral range          | 400 cm <sup>-1</sup> to 2 300 cm <sup>-1</sup>               |
| Auto-focus                  | Yes, 0-4mm   |
| Spectral resolution         | 8-10 cm <sup>-1</sup>  |
| Detector type               | Linear CMOS  |
| Display                     | 3.5" Transflective TFT with LED backlight, Night-vision mode |
| Internal memory             | More than 100 000 measurements                               |
| Data export formats         | txt, .csv, .jcamp  |
| Connectivity                | USB-C, Wi-Fi (2.4 GHz), Bluetooth 5.1                        |
| Battery                     | Rechargeable - more than 12 hours of typical use             |
| Operating temperature       | -20°C to +50°C (-4°F to 122°F)                               |
| Storage temperature         | -30°C to +50°C (-22°F to 122°F)                              |
| Relative humidity           | 5-90%  |

## Operation and Performance

|               |   |
|---------------|---|
| Start-up time | Less than 20 sec. in room temperature   |
| Scan time     | Most substances less than 5 sec   |
| Exposure      | Auto-exposure or manual exposure, 0.001 – 60 sec  |
| MTBF          | 50 000h   |
| 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, 21 CFR part 11 compliant (Instrument and ChemDash), ATAK |

## Accessories and Optional Components

|                      |  |
|----------------------|--|
| Included accessories | Vial holder, watertight case, protective cap with calibration target, sample vials, USB-C cable, AC adapter 5 VDC/1 A USB for charging                               |
| Software included    | ChemDash Pro+  |
| Available libraries  | Explosives, Narcotics, Chemical Warfare Agents, Hazardous materials, Pharmaceuticals, Biotoxins, User defined libraries. Total number of substances more than 14 000 |

## Functionality and Features

|                      |   |
|----------------------|---|
| Type of substances   | Solid, liquids, powders, and tablets  |
| Mixture analysis     | Yes   |
| Delay function       | Yes, 1 second to 15 minutes   |
| Features             | Auto-focus, QuickScan, User authorization, Event logging, Scan delay, User-defined libraries, User-added substances and Night-vision mode                                       |
| Supported languages: | Arabic, Chinese, English, French, German, Indonesian, Italian, Japanese, Korean, Polish, Romanian, Spanish, Swedish, Ukrainian, and Vietnamese. Additional languages on request |