

# Serstech Arx mkII

Simplicity. Speed. Precision.



Experience simplicity, speed and precision with Serstech Arx mkII designed for and with field operators. With one-hand and single-button operation, the pocket-size Arx mkII is your reliable solution for precise chemical identification.

Determine what's in front of you in seconds, without complexity. With more than 24000 substances divided in Narcotics, Explosives, TICs, CWAs and Pharma libraries - Serstech Arx mkII delivers fast and accurate results.

Built for precision in the field. Our algorithms reduce fluorescence in difficult substances, and the Deep Scan™ feature identifies even small traces of chemicals in complex mixtures.

Use ChemDash Mobile to connect Serstech Arx mkII wirelessly and send case reports instantly from the field. For secure operations, Wi-Fi and Bluetooth can be disabled as needed.

Serstech Arx mkII is the only handheld Raman device compatible with military networks via ATAK. Designed for ease and speed. The interface is straightforward, optimized for use with tactical gloves. A dedicated night vision mode works with most night-vision goggles.



 **SERSTECH**



ACXODUS ASIA  
18 Boon Lay Way #09-107/108 Tradehub 21 Singapore 609966  
Phone : +65 9869 5661 | Email : info@acxodus.com |  
www.acxodus.com



# Serstech Arx 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 | 785 nm                                                                                                                                                                                                      |
| Laser output power          | Max 300 mW, user adjustable                                                                                                                                                                                 |
| Barcode reader              | Yes, QR and most common barcode formats                                                                                                                                                                     |
| Max spectral range          | 400 cm <sup>-1</sup> to 2300 cm <sup>-1</sup>                                                                                                                                                               |
| Auto-focus                  | Yes, 0-4 mm                                                                                                                                                                                                 |
| 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)                                                                                                                                                                             |
| Start-up time               | Less than 20 sec. in room temperature                                                                                                                                                                       |
| Relative humidity           | 5-90%.                                                                                                                                                                                                      |
| 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, g, 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 Lite. Optional software: ChemDash Pro and ChemDash mobile (iOS & Android)                                                                                   |
| Available libraries  | Explosives, Narcotics, Chemical Warfare Agents, Hazardous materials, Pharmaceuticals, Biotoxins, User defined libraries. Total number of substances more than 24 000 |

## Functionality and Features

|                        |                                                                                                                                                                                 |
|------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Type of samples        | Solid, liquids, powders, and tablets                                                                                                                                            |
| Mixture analysis       | Yes                                                                                                                                                                             |
| Deep scan              | Enables identification of very small quantities within complex mixtures                                                                                                         |
| Fluorescence reduction | Built-in algorithms reduce fluorescence interference from challenging substances                                                                                                |
| Delay function         | Yes, 1 sec to 15 min                                                                                                                                                            |
| 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 |