Serstech Arx Pharma mkII

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USERSTECH

Simplicity Speed. Precision

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

Serstech Arx Pharma mkll is packed with new features, simplifying the workflow when verifying substances at incoming inspection. Serstech introduces SharpEyeTM, 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 mkll finds precise results for single substances and for complex mixes.

Serstech Arx Pharma mkll comes with a builtin 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 ScanTM and Quick ScanTM 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 mkll 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 mkll focuses on what is important.

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





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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 ⁻¹ to 2 300 cm ⁻¹
Auto-focus	Yes, 0-4mm
Spectral resolution	8-10 cm ⁻¹
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

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