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# Serstech 100 Indicator

**RAMAN SPECTROMETER:** Pocket-sized identifier of narcotics, explosives & toxic chemicals



This Raman handheld analyzer identifies illicit narcotics, controlled drugs, explosives materials, pharmaceutical ingredients and a wide range of unknown substances. Thousands of compounds are available in FFI's spectral libraries. It also analyzes and reports the components of mixtures.

100 Indicator is compact, ruggedized and yet incredibly powerful. It analyzes thousands of explosives, narcotics and toxic chemicals (depending on libraries installed). Laser power is adjustable and there is a programmable acquisition delay for measuring energetic materials. Indicator™ features a durable and waterproof construction yet can also be connected to a PC for detailed spectral analysis, library management and multiple instrument administration.

100 Indicator™ has tactile buttons for easy use while wearing gloves.

## SERS Kit (\*Surface Enhanced Raman Spectroscopy)

Quick identification of difficult substances: Heroin • Fentanyl

The SERS kit attaches to 100 Indicator enhancing the capability to identify dark colored substances or mixtures with very low concentrations. The device is capable of detecting parts-per-million (ppm) levels of "street quality" samples of e.g. heroin, fentanyl and fentanyl derivatives. The SERS kit is based on patent pending technology used together with disposable SERS surfaces (SERS disposables).



100 Indicator™ is a trademark  
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FFI Raman Spectroscopy



## Specifications

Battery & Operating Time	Rechargeable Li ion battery. (transportable by air). >4 hours operating time from full charge
Weight & Size	650 gm (1.4 lb); 15.8 cm x 10.1 cm x 2.9 cm (6.2 x 4.0 x 1.1")
Environmental	IP67; Operating -20C to +50C, Storage: -30C to +50C; MIL-STD-810G
Display & Interface	3.5" transmissive color TFT with LED backlighting; USB: mini-USB
Excitation wavelength	785nm, Stability <0.01 nm, Linewidth <0.1 nm
Laser Power	Max 300mW - adjustable
Wavenumber Range & Resolution	Range: 400 cm <sup>-1</sup> to 2300 cm <sup>-1</sup> Resolution: 10 cm <sup>-1</sup>
Analysis Time	As little as 10 seconds but not longer than 5 minutes.
Spectral libraries & Data Output	Various libraries available: narcotics, explosives, etc. - Data Output: Text; .txt, .csv, .jcamp
Calibration Standard	ASTM 1840 Raman Frequency Shift
Included Accessories	USB cable, laser aperture cap with polystyrene calibration target, sample vials, point-and-shoot adapter, vial holder, 90° angle adapter, tripod attachment point, AC Adapter 5 VDC/1 A USB
Optional Accessories	Surface Enhancement Raman Spectroscopy (SERS) attachment for heroin analysis. SERS kit consumables, belt-mountable holster for HandyRam II.
Approvals & Certifications:	EN 60825-1:2007 Class 3B, EN 61000-6-3:2007, AS/NZS CISPR 22, EN 61000-6-1-6-1:2007, EN 61000-4-2, -3, EN 60950-1:2006-05-29 + A1/A2/A11/AC1, EN 60950-22:2006-06-19 + C1/A11/A11C1, EN 61010-1:2010 (Third Edition), Directive 2012/19/EU (WEEE), Directive 2011/65/EU (RoHS), IEC 60529 IP67, MIL-STD-810G 514.6 (vibration), MIL-STD-810G 516.6 (functional shock)

## Applications:

- Narcotics Identification
- Counterfeit Pharmaceuticals
- Forensics
- Site Exploitation
- Material Quality Control



Above: a Screening mode provides a green, yellow or red screen as part of the analysis result to alert the user.

## DXC-002, FENTANYL-HEROIN TEST KIT

### Safe & reliable presumptive testing for fentanyl and heroin

Drug test kits on the market have received bad press recently because of their high rate of false positives, leading to wrongful arrests. Yet these colorimetric kits are often used by law enforcement to presumptively identify heroin, fentanyl and other drugs, like cocaine and methamphetamine. None of these drug test kits currently can reliably detect and differentiate heroin and fentanyl, and, they require relatively large amounts of the drugs to get a reaction - more than enough to cause an accidental overdose. Fen-Her™ is reliable, eliminates typical false positives and requires far less than a microgram of material, making it much safer to use.

