Small, affordable and easy to use instrument for identification and verification of chemicals

Finally, police and customs can be faster than the criminals
As a police or customs officer, you want to ensure that explosives and explosive precursors are quickly and accurately identified directly when you find them. You want to be able to find even the most recent explosives. And you want to easily share your results with colleagues and partners.

The Serstech 100 Indicator is the first truly handheld Raman spectrometer that offers a built-in explosive database while also allowing you to add the new substances that you find. It sets a new affordable price point, allowing every unit to have their own instrument for quick decision-making.

Do not take any risks with bad deliveries of chemicals
Being responsible for quality in manufacturing is hard with shorter product cycles and an ever increasing number of suppliers of chemicals. How do you know that a delivery is correct? How can you find errors early and avoid costly mistakes, without paying a lot of money for a bigger lab?
   Start using the Serstech 100 Indicator and verify immediately at the loading dock that your chemicals are correct. Just push the button and a green screen will show that everything is in order. Use the same instrument during visits at suppliers to ensure that they are not using restricted chemicals – a very direct way to ensure that your company takes sustainability seriously.
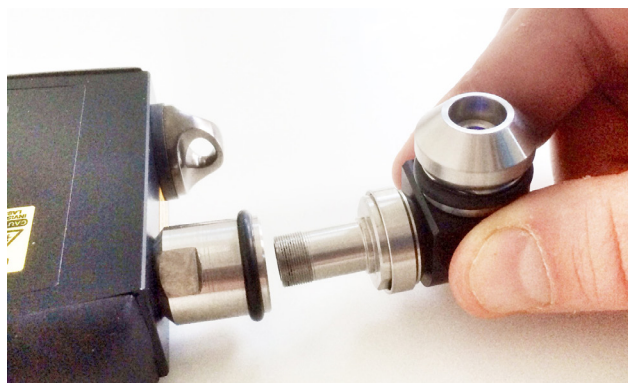
- Rugged waterproof design (Mil-Spec and IP67)

- Truly handheld format

- Intuitive user interface

- Advanced mixture analysis

- Library Manager

- Non-touch screen for reliable usage in any conditions

Serstech 100 Indicator Technical Specifications

Part No	IND-1001
Instrument type	Handheld Raman spectrometer
Laser Excitation Wavelength	785nm, Stability <0.01 nm, Linewidth <0.1 nm
Laser Output Power	Max 300mW
Max Spectral Range	450 cm^{-1} to 2 300 cm^{-1}
Spectral Resolution	10 cm^{-1}
Detector Type	Linear CCD Array
Display	3.5" transmissive color TFT with LED backlighting
Memory	Enough for 20 000 measurements (8 GB)
Data Formats	Text; .txt, .csv
Connectivity	USB 2.0
Battery Rechargeable	Li-ion, capacity 7,22 Wh, >4 hrs Continuous Operation, non-user replaceable
AC Adapter	5 VDC/1 A USB for Charging
Weight	650 g (1.4 lb)
Size	15.8 cm x 10.1 cm x 2.9 cm (6.2 x 4.0 x 1.1")
Operating Temperature	-20 °C to +40 °C
Storage Temperature	-30 °C to +50 °C
Included accessories	Instrument, watertight case, shoulder strap, USB cable, laser aperture cap with polystyrene target, sample vials, point-and-shoot adapter, vial holder, 90° angle adapter, attachment point
Exposure	Manual mode (0.001 – 60 sec) and automatic mode
Additional Features	User authorisation, Event logging, Scan Time Delay
Basic Database	>100 substances with compound data. Wide range of categories represented, e.g. Narcotics and Precursors, Explosives, Pharmaceuticals, Solvents, Polymers.
Additional databases	Choose from 8 000 substances in more than 20 sub-categories incl. Cosmetics, Food, Polymers, Pharma, Explosives, Forensics and Hazardous Chemicals. Users can also create their own database at no extra cost.
Warranty	1 year standard, users can buy two additional years
MTBF	50 000 h
Relative humidity	5-90%
Approvals	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)
Multilanguage	Danish, English, Japanese, Russian, Swedish
Software	Data Management Tool (DMT) is designed to help the user manage all data on the instrument. It's available for MS Windows and Mac OS X.

With the *point and shoot adapter* analysis can be made from any surface by gently pressing the adapter against it.

The 90° *angled adapter* offers several convenient ways of measuring.

SERSTECH

Serstech AB, Sweden • www.serstech.com