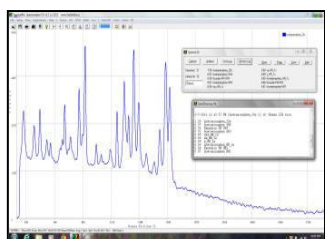


# Technical Specification Sheet MINI RUGGED SPECTROMETER SYSTEMS

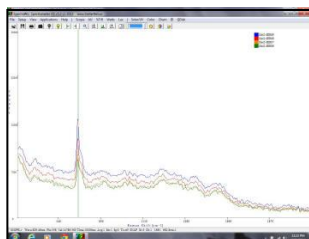
A Universe of Spectrometer Systems

## StellarCASE-Raman Portable Instrument for Material Identification

StellarNet proudly announces a new rugged and fully integrated portable Case System for material identification and composition analysis using Raman spectroscopy. The StellarCASE-Raman includes interior mounting of spectrometer instrumentation pre-configured for "Open & Measure" application, with no additional setup required. With a simple press of the "Analyze" button instantaneous match results can be display on your screen.



**Pharmaceutical ID** - Tylenol or Acetaminophen displaying Library search MATCH and Excedrin (containing Acetaminophen) as #2



**Melamine Adulterant Detection**- Trace amounts of Melamine at 100ug/ml can be detected in Infant formula.

The StellarCASE features an internal main power control system with ON, OFF, & Charge buttons. The Raman probe & probe holder mounts directly into the system's acrylic mounting surface for easy access.

The systems contains a Ramulaser™ 785nm Raman laser with adjustable power knob. Standard systems are equipped with a TE cooled Raman spectrometer for a detection range of 200-2300cm<sup>-1</sup> with options for other ranges or configurations.

The system collects your sample's Raman spectrum and sends the spectral data to a tablet with factory installed SpectraWiz ID™ Software for spectral matching. Users may create their own sample library from which to search OR they may join our Raman Library Share program to gain access to our Free Raman Database.



**Rugged Case for  
"Open & Measure" Applications**



The system is completed with a Raman probe holder, sample vials, and set of 30 SERS strips (Surface Enhanced Raman). It has an 8 hour battery lifetime for field use and portable application and comes with AC power adapters for use in your laboratory or classroom.

**StellarCASE-Raman** can be useful for a variety of applications. Here's just a few

- **Forensics**- Illicit drugs, counterfeit materials, unknown chemicals, & explosives
- **Anti-Counterfeiting**- inks, paints, fibers, and hair
- **Food & Beverage**- Raw Material ID
- **Pharmaceutical & Nutraceutical ID**
- **SERS**- trace substance detection using Surface Enhanced Raman Spectroscopy
- **Semiconductor**- Microstructure, Strain, Defects
- **Environment & Geological**
- **Custom & OEM Applications**- Develop your own Portable Analyzer

Specifications		StellarCASE-Raman	
Spectrometer:	Raman-HR-TEC	Case Dimensions:	6 x 11 x 13 inches
Spectrometer range:	200-2300cm <sup>-1</sup>	Measurement Speed:	<1 second
Optical resolution:	4cm <sup>-1</sup>	Spectrometer Interface:	USB2 / USB2 hub
Detector type:	TE Cooled CCD	Tablet Specs:	Win8,
Probe Type:	Integrated Raman Filters	Software included:	SpectraWiz Spectral-ID
Working Distance:	4.5mm/ fixed probe holder accessory	Additional Components:	Sample vials, Laser Safety Goggles, 30 SERS substrates, mini-USB mouse, AC power supply & charger
Battery:	8hr lithium ion		