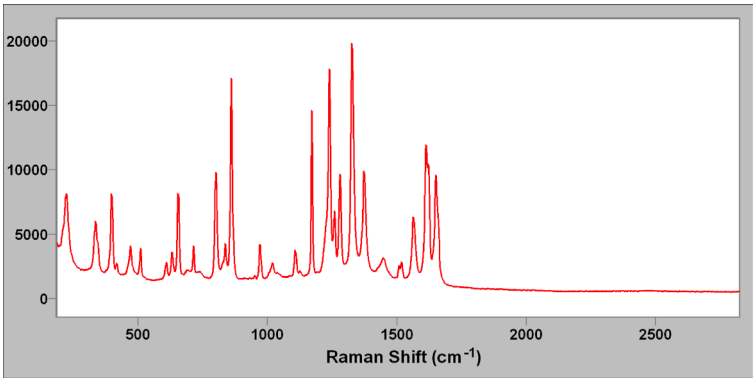
SPECTRA SOLUTIONS, INC.
Innovation through Spectroscopy

Portable Raman System

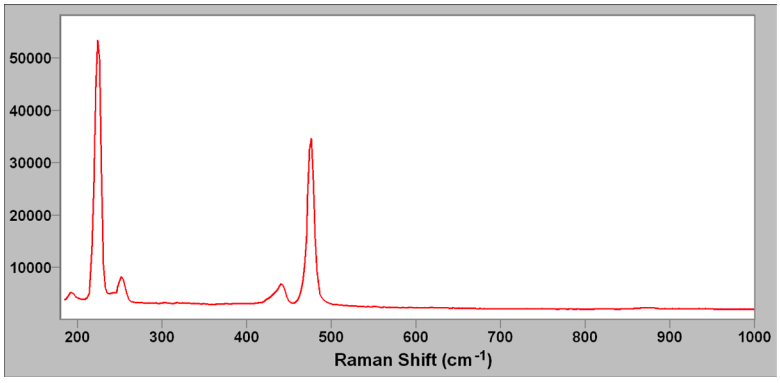
FEATURES

- Ideal for **solid, liquid or gas** samples.
- Can measure **very small sample size.**
- Measure through **transparent or opaque** sample container.
- **4 cm^{-1} spectral resolution** (25 micron slit).
- **Wide spectral range coverage** .
- **NIR enhanced front-illuminated CCD sensor** (1650 x 200 pixels).
- **TE cooled CCD to -60 °C.**
- **Fiber Optic Raman probe** interface for convenient sampling.
- **0.1 nm linewidth laser.**
- Bundled with **SpectraSoft data acquisition software.**

- **High throughout VPH grating spectrograph**
- **Compact and lightweight**
- **Battery power capability**
- **Available with 532 nm or 785 nm laser excitation sources**



Acetaminophen (Tylenol) Raman spectrum, 1 s integration



Sulfur Raman spectrum, 1 s integration

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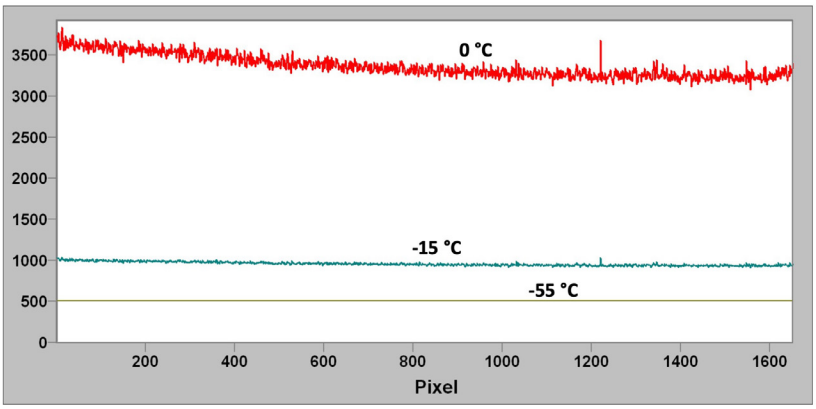
Specifications

Excitation Wavelength	532 nm (DPSS) or 785 nm (wavelength stabilized)
Laser Power	100 mW (532 nm), 450 mW (785 nm)
Raman Shift Range	532 nm: 150-4100 cm^{-1}; 785 nm: 150-3000 cm^{-1}
Fiber Input	100 microns (Laser), 200 microns (Spectrograph), FC connectors, inquire for other fiber core sizes
Spectrograph	High throughput VPH grating with F2 optics
Detector	Andor IVAC CCD, 1650 x 200 active pixels (16 x 16 µm pixel size)
CCD TE Cooling	-60 °C at ambient (25 °C)
Power Input	12V, 3.57A
Communication	USB
Software	SpectraSoft data acquisition software included, SpectraChem plug in software for process applications also available
Computer and Operating Software Requirements	Windows 7 64-bit or later, Intel Core i3 or comparable processor, 4GB of memory & 100MB of free hard drive space
Coupling System	FC Connector
Dimensions & Weight	13.77”x5.90”x10.82”, 19 lbs
Part Number	RAMS-P532, RAMS-P785



Dark current at different CCD cooling temperatures, 1 s integration

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