

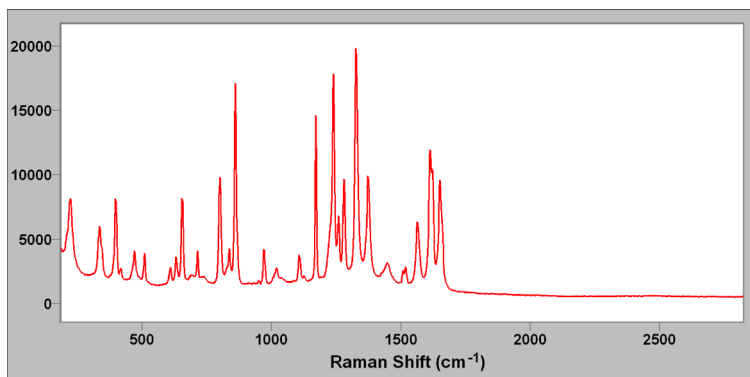
# Portable Raman System



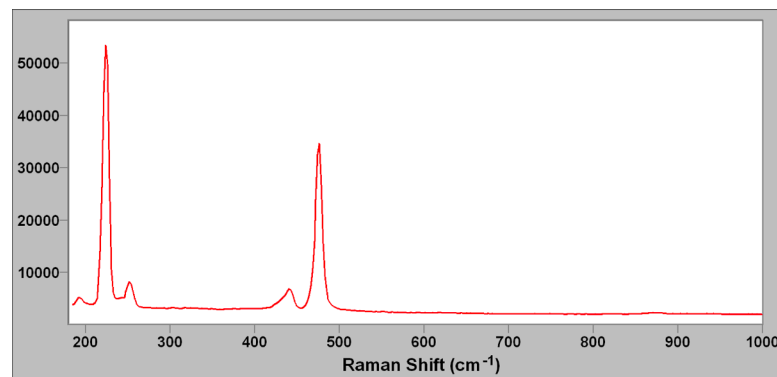
- High throughput VPH grating spectrograph
- Compact and lightweight
- Battery power capability
- Available with 532 nm or 785 nm laser excitation sources

## FEATURES

- Ideal for **solid, liquid or gas** samples.
- Can measure **very small sample size**.
- Measure through **transparent or opaque** sample container.
- **4 cm<sup>-1</sup> 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**.



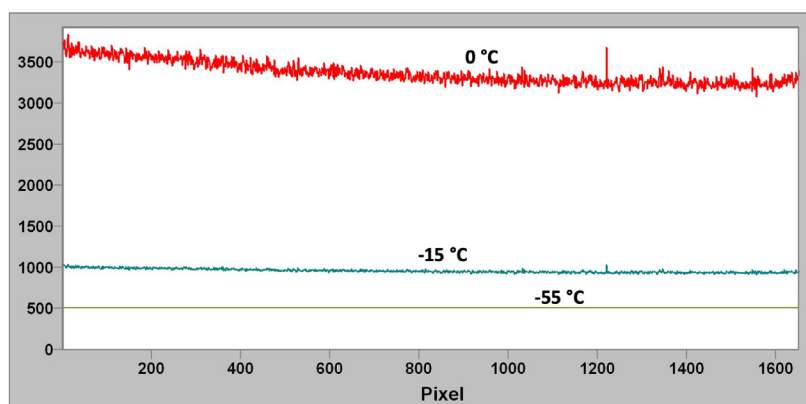
Acetaminophen (Tylenol) Raman spectrum, 1 s integration



Sulfur Raman spectrum, 1 s integration

## Specifications

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



Dark current at different CCD cooling temperatures, 1 s integration