



# *μSense-I-x-785x High Performance Raman Microscope*

The new *μSense-I-x-785x* Raman microscope provides the most cost-efficient solution for microscopic Raman analysis.

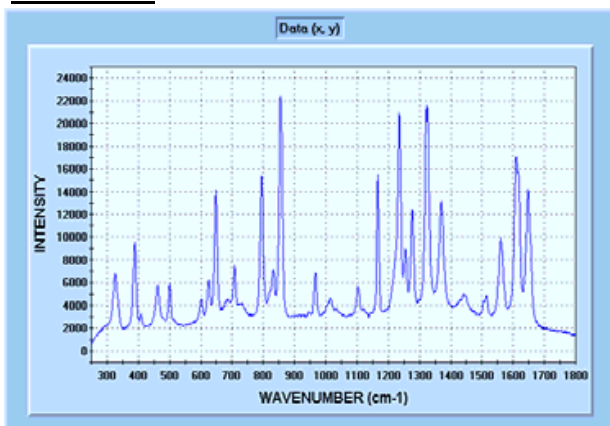
The *μSense-I-x-785x* system features an Olympus CX31 microscope and an ProRaman-L or EZRaman-I Raman analyzer, the most cost-effective high sensitivity Raman systems. The *μSense-I-x-785x* system achieves 5μm spatial resolution with a 20X objective and ~7cm<sup>-1</sup> spectral resolution with spectral coverage options from ~100 to 3,300cm<sup>-1</sup>. A high resolution CMOS imaging camera is used to view the sample while making Raman measurements.

The *μSense-I-x-785x* is a powerful, versatile, robust, and affordable Raman microscope. It is an ideal choice for any academic, research, industrial, and all other applications requiring a high performance Raman Microscopy System.

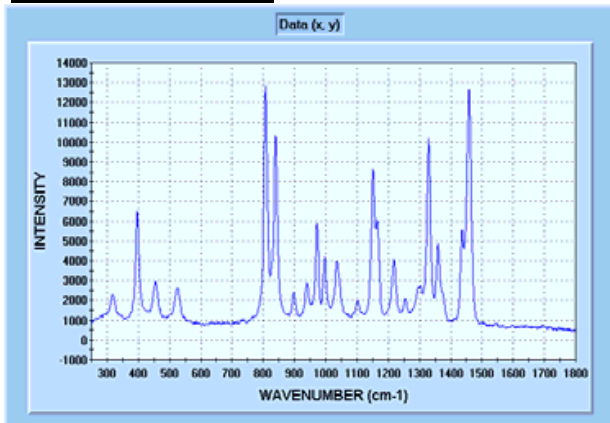


## Sample Spectra

### TYLENOL



### POLYPROPYLENE



## SYSTEM FEATURES

- Best Performance to Cost Ratio
- 785nm Excitation Laser
- Average Optical Resolution ~7cm<sup>-1</sup>
- Spectral Coverage ~100-3,300cm<sup>-1</sup>
- 5μm Laser Beam Spot Resolution with 20X Objective
- Dual Use Detachable Portable Raman Unit

**HIGH PERFORMANCE RAMAN MICROSCOPE*****μSense-I-x-785x*****SPECIFICATIONS**

<b>RAMAN SPECTROMETER</b>	ProRaman-L High Sensitivity Raman Analyzer 785nm Frequency Stabilized, Narrow Linewidth Diode Laser Output Power: ~300-400mW High sensitivity CCD spectrograph with CCD cooled to -50°C 2-D CCD Array HRP-8 High throughput fiber optic probe, O.D. > 8 Rayleigh rejection Measurement Time: 0.1 to 600 seconds  Spectral Parameters: Average Optical Resolution: ~7 cm <sup>-1</sup> Spectral Range: ~100-3300 cm <sup>-1</sup> Nominal Resolution: 1.2 cm <sup>-1</sup> /pixel
<b>MICROSCOPE</b>	Olympus CX31 Microscope with 4x, 10x, and 40x Objectives. (Optional 20x and 40x Long Working Distance Objective Available) Spatial Resolution ~5μm with 20X objective 1.3M Pixel CMOS Viewing Camera White light LED Epi-illumination
<b>SYSTEM SOFTWARE</b>	RamanReader Data Acquisition and Spectral Search Ready Software Micro-Imaging Software for Sample Viewing
<b>POWER REQUIREMENT</b>	110-240 V AC
<b>SYSTEM DIMENSIONS</b>	Microscope: 326x285x480mm ProRaman-L: 150x250x300mm
<b>SYSTEM WEIGHT</b>	~ 45 LBS
<b>SYSTEM WARRANTY</b>	One Year for Parts and Labor

*Specifications are subject to change without notice.*

Appropriate safety guidelines should be followed when operating this instrument. Complies with 21 CFR 1040.10 and 1040.11