

## ***EZRAMAN-M Laboratory Series*** **LABORATORY RAMAN ANALYZERS**

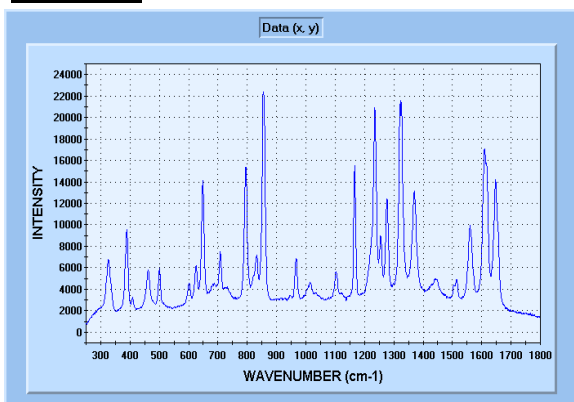
The new **EZRaman-M Laboratory Series** of Raman Analyzers enable greater simplicity for solid and liquid material identification and testing.

The laboratory EZRaman-M systems feature a frequency-stabilized diode laser, a high Rayleigh rejection fiber optics probe, and a miniature high resolution spectrometer achieving up to  $\sim 4\text{cm}^{-1}$  average optical resolution, depending on spectral range. The user-friendly RamanReader spectra management software simplifies spectra identification and chemical reaction monitoring. The EZRaman-M laboratory systems are powerful, compact, robust, and affordable field portable Raman analyzers. They are an ideal choice for any academic, research, industrial, and all other applications requiring a high performance, low-cost, Raman Analyzer System.

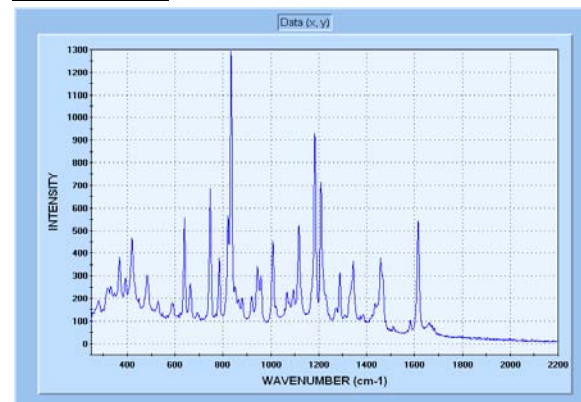


### **Sample Spectra**

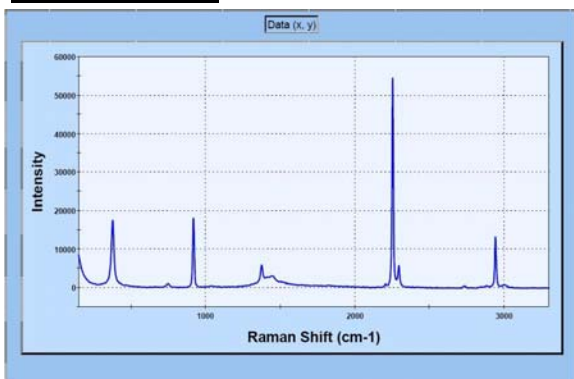
#### **A-Model TYLENOL**



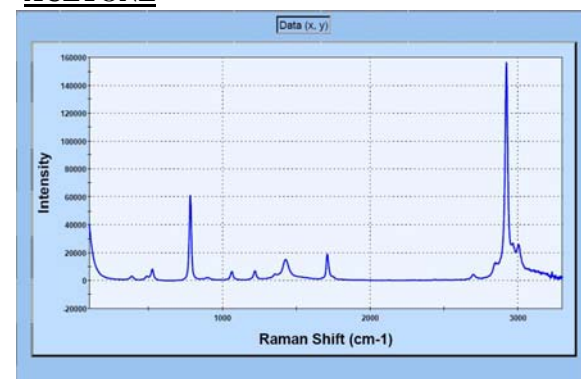
#### **IBUPROFEN**



#### **B-Model ACETONITRILE**



#### **ACETONE**



**LABORATORY RAMAN ANALYZERS*****EZRaman-M Series*****SPECIFICATIONS**

EXCITATION SOURCE	785 nm Frequency Stabilized, Narrow Linewidth Diode Laser Laser Power: ~300-400mW Optical Power adjustable from 0 to full power Laser shutter control
FIBER-OPTIC PROBE	HRP-8 High throughput fiber optics probe Rayleigh Rejection: O.D. > 8 at Laser Wavelength Working Distance: ~7.5 mm (Standard), 3mm or 10 mm (Optional) Crushproof Stainless Steel Jacket
SPECTROGRAPH	<i>Option A2:</i> Average Optical Resolution: ~4.5 cm <sup>-1</sup> Spectral Coverage: 250 cm <sup>-1</sup> to 2,350 cm <sup>-1</sup> Nominal Resolution: 1 cm <sup>-1</sup> /pixel  <i>Option A1:</i> Optical Resolution: ~4.5 cm <sup>-1</sup> Spectral Coverage: ~100 cm <sup>-1</sup> to 2,200 cm <sup>-1</sup> Nominal Resolution: 1 cm <sup>-1</sup> /pixel  <i>Option B:</i> Optical Resolution: ~6.5 cm <sup>-1</sup> Spectral Coverage: ~100 cm <sup>-1</sup> to 3,300 cm <sup>-1</sup> Nominal Resolution: 1.6 cm <sup>-1</sup> /pixel  TEC regulated Linear CCD Array Measurement Time 0.4 to 120 seconds
SYSTEM SOFTWARE	Data Acquisition and Spectra Management Software Data Files Can Be saved as .TXT, .SPC, .DAT, or .BMP Formats Direct Export/Link to GRAMS or Excel for Post Processing and Modeling Time Chart with Stacked, Overlaid, and Single Spectrum Display Modes Time Trend and Ratio Calculate in Time Chart Mode Auto Base Line, Manual Base Line
SYSTEM OPERATING TEMPERATURE/PROTECTION	Operation temperature 10°C - 40°C, With Thermal Shutdown Protection
POWER REQUIREMENTS	90 VAC to 264 VAC Auto-Switched, 47Hz to 67Hz
PACKAGING DIMENSIONS (L x W x H)"	4" x 6.25" x 8.25"
SYSTEM WEIGHT	~6 Lbs.
ACCESSORIES (Optional)	Pre-aligned Lens Tube Sample Holder Integrated UMPC
SYSTEM WARRANTY	One Year for Labor and parts

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

*Specifications are subject to change without notice.*

