



EZRAMAN-I Series

HIGH SENSITIVITY PORTABLE RAMAN ANALYZERS

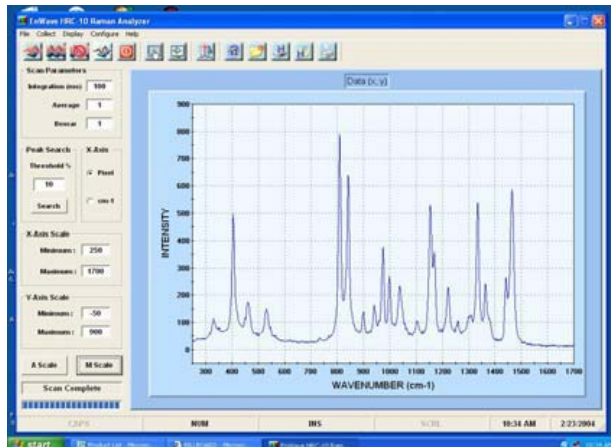
The new portable **EZRaman-I Series** are compact, high-sensitivity Raman instruments suitable for laboratory and/or field analysis requiring an affordable, high sensitivity Raman instrument.

Each instrument in the EZRaman-I Series features a 785nm frequency-stabilized laser, a high sensitivity CCD spectrograph with CCD cooled to -50°C , and a high throughput laboratory fiber optics probe. The system achieves $\sim 4.5\text{--}6.5\text{cm}^{-1}$ average optical resolution (depending on the spectral range). Spectral coverage options are available from either ~ 250 to $2,100\text{cm}^{-1}$; ~ 100 to $2,000\text{cm}^{-1}$; or ~ 100 to $3,300\text{cm}^{-1}$.

These instruments are ideal for demanding on-site Raman identification, chemical process monitoring in the lab, and for any academic, research, industrial laboratories requiring a high performance Raman instrument at an affordable price.



Sample Screen Shot



SYSTEM FEATURES

- High Sensitivity Raman System for laboratory & on-site identification
- High Power, NIR, Frequency Stabilized, Narrow Linewidth Excitation Source
- CCD Cooled to -50°C
- Average Optical Resolution $\sim 4.5\text{--}6.5\text{cm}^{-1}$, Spectral Coverage: ~ 250 to $2,100\text{cm}^{-1}$; ~ 100 to $2,000\text{cm}^{-1}$; or ~ 250 to $3,300\text{cm}^{-1}$ (785 nm excitation)
- High Performance Fiber Optics Probe (O.D. > 8 at laser wavelength)
- Best Performance/ Cost Ratio



HIGH SENSITIVITY PORTABLE RAMAN ANALYZERS

EZRaman-I Series

SPECIFICATIONS

EXCITATION SOURCE	NIR, 785nm Frequency Stabilized, Narrow Linewidth Diode Laser Laser Power: ~300-400mW (Higher Output Power Available Upon Request) Laser Power Adjustable, Shutter Control Estimated Laser Lifetime: >10,000 Hours Other wavelengths available: 532nm and 830nm
FIBER-OPTIC PROBE	Rayleigh Rejection: O.D. > 8 at Laser Wavelength Working Distance: 7 mm (Standard); 3mm or 10 mm (Optional)
SPECTROGRAPH	TEC cooled CCD camera (-50°C) 16 Bit Digization Integration Time: 0.1 to 600 seconds <i>Option A2*:</i> Spectral Coverage: ~250cm ⁻¹ to 2,100 cm ⁻¹ Average Optical Resolution: ~4.5 cm ⁻¹ (Standard 785nm laser) Nominal Resolution: ~1.2 cm ⁻¹ /pixel <i>Option A1*:</i> Spectral Coverage: ~100cm ⁻¹ to 2,000 cm ⁻¹ Average Optical Resolution: ~4.5 cm ⁻¹ (Standard 785nm laser) Nominal Resolution: ~1.2 cm ⁻¹ /pixel <i>Option B*:</i> Spectral Coverage: ~250 to 3,300 cm ⁻¹ Average Optical Resolution: ~6.5cm ⁻¹ (Standard 785nm laser) Nominal Resolution: 1.8 cm ⁻¹ /pixel
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	10°C - 40°C, With Thermal Shutdown Protection
POWER REQUIREMENTS	90 VAC to 264 VAC Auto-Switched, 47 Hz to 67 Hz
PACKAGING DIMENSIONS (L x W x H)"	17" x 13" x 7"
WEIGHT	~ 25 LBS
SYSTEM WARRANTY	One Year for Parts and Labor

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.

