

EZRAMAN-NP SERIES

AFFORDABLE FIELD PORTABLE RAMAN ANALYZER

The EZRaman-NP Series is a “step up” in performance for low-cost field portable routine Raman analysis. With its advanced design, the EZRaman-NP system improves the sensitivity of affordable Raman instruments for laboratory applications. They are ideal for substance identification, teaching, research, and quality control or other applications needing an affordable, yet advanced performance Raman system.



The EZRaman-NP system features a narrow linewidth frequency stabilized laser, high throughput fiber optics probe, and an optically fast (f/1.6) spectrograph with TE cooled CCD detector. This system is easy to use with powerful and user-friendly RamanReader software, while providing excellent long term reliability with minimal maintenance.

Features and Benefits

Sensitivity

- + Improved sensitivity with high throughput (f/1.6) optical design
- + Shorter integration time give better reaction monitoring snapshots
- + Excellent fluorescence rejection

Reliability & Stability

- + Actuate and system to system and day to day repetition. Get the same results everyday on every instrument
- + No moving parts in instrument provide highly repeatable and reliable spectral data

Ease of use

- + Intuitive, simple, and powerful software interface
- + No or minimal sample preparation
- + Fiber optic probe enables flexible sampling configuration

Portability

- + Compact, robust, and easy to move around
- + Rugged construction for long-term stability and little maintenance

High Value

- + Laboratory performance at a low price

Applications

- + Chemicals
- + Gemology, mineralogy and geology
- + Polymer and plastics
- + Pharmaceutical process

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SPECIFICATIONS

Model	EZRaman-NP-532	EZRaman-NP-785	EZRaman-NP-Dual	
Excitation Laser (nm)	532	785	532/785 Dual	
Laser Power (mW)	50	300	532nm: 50; 785nm: 300	
Spectral Range (cm ⁻¹)	Model B: 100 - 3300 Model C: 100 - 4000	Model A1: 100 - 2200 Model A2: 250 - 2350 Model B: 100 - 3300	785nm: A1: 100 - 2200 A2: 250 - 2350 B: 100 - 3300	532nm: Model B: 100 - 3300 Model C: 100 - 4000
Spectrograph	High throughput f/1.6 CCD Spectrograph; CCD detector cooled to 30°C below ambient. Dynamic Range: 16 bits			
Fiber-Optic Probe	HRP-8 high throughput laboratory fiber-optic Raman probe, O.D. > 8 Rayleigh rejection; working distance: 7 mm (Standard); 3 mm or 10 mm (Optional) Contact measurement lens tube and 6" immersion lens tube Optional			
System Software	Data Acquisition and Spectra Management Software Data Files Can Be saved as .SPC, .TXT, DAT, or .BMP Formats. Direct Export/Link to GRAMS, Symbion (Optional), Excel for Post Processing and Modeling			
Operating Temperature	10°C - 40°C			
Physical				
Dimension (L x W x H)"	11.25" x 8.6" x 7"	11.25" x 8.6" x 7"	18" x 15" x 7"	
Weight	19 lb	19 lb	~25lb	
System Warranty				
One Year for Parts and Labor				
Accessories (Optional)				
SH: Sample Holder for Measure liquid samples in vials or cuvette XYZ: Probe Holder-XYZ Precision Stage for fine adjustment of sample measurements CLT: Pre-Aligned Lens Tube for measurement on contact for solid samples ILT: Immersion Lens Tube for measurement of liquid or slurry samples HNA: High NA Lens Tube with working distance ~3mm (NA= 0.55) WD10: Lens tube working distance 10mm; NA = 0.25 MVW: μV-785 μViewer Raman to microscope Converter SG: Safety Goggles EWID: For real time sample identifications and Raman library managements SPID: Spectral ID for spectral search and database building Raman Library				

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

