

EZRAMAN-N

AFFORDABLE RAMAN ANALYZER

The EZRaman-N Series is a “step up” in performance for low cost routine Raman analysis. With its advanced design, the EZRaman-N 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-N 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 every day 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 and robust; easy to move from one location to another
- + Rugged construction for long-term stability and little maintenance

High Value

- + Laboratory performance at a low price

Applications

- + SERS
- + Industrial Chemicals
- + Gemology, mineralogy and geology
- + Polymer and plastics
- + Laboratory reaction monitoring
- + Pharmaceutical and Biology

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SPECIFICATIONS

Model	EZRaman-N-532	EZRaman-N-785	EZRaman-N-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 - 3,300 Model C: 100 - 4,000	Model A1: 100 - 2,200 Model A2: 250 - 2,350 Model B: 100 - 3,300	532nm : 100 - 4,000 785nm: 100 - 3,300
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 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"	14.5" x 14" x 6"
Weight (Lbs)	~6	~6	~12
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 Converter SG: Safety Goggles 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

