

# EZRAMAN-I Dual

## HIGH PERFORMANCE FIELD PORTABLE RAMAN ANALYZER

The portable EZRaman-I Dual are high-sensitivity, laboratory grade, field portable instruments in a rugged package. Further, the EZRaman-I Series provide accurate and easy material analysis and identification for a variety of applications.



The EZRaman-I Dual instrument feature two excitation laser wavelengths: 532nm and 785nm, high sensitivity spectrograph with CCD cooled to  $-50^{\circ}\text{C}$ , and high throughput fiber optics probes.

EZRaman-I instruments are ideal for demanding field Raman analysis including material identification, chemical reaction monitoring, and any other academic, research, industrial laboratories applications requiring a high-performance Raman instrument in a portable package.

The EZRaman-I Dual can enable analyses of your difficult samples, including high fluorescent, dark color samples, explosive samples, low concentrations, and biological tissues, etc.

### Features and Benefits

- + Laboratory performance in field portable package
- + The most sensitive portable Raman spectrometer on the market
- + Excellent fluorescence rejection
- + Fast sample times
- + High performance fiber optics probe (O.D. > 8 at laser wavelength)
- + Best performance/cost ratio
- + Compact, reliable and easy to use

### Applications

- + Pharmaceutical
- + Chemicals, polymers
- + Biology
- + Geology/mineralogy/gemology
- + Anthropology and Arts
- + Carbon nanotubes, graphene
- + Solar cells
- + Paper and pulp

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## SPECIFICATIONS

Performance		
Excitation Laser (nm)	532	785
Laser Power (mW)	50	350
Spectral Range (cm <sup>-1</sup> )	Model B: 100 - 3100 Model C: 100 - 4000	Model A1: 100 - 2200 Model A2: 250 - 2350 Model B: 100 - 3300
Spectrograph	High Sensitivity CCD spectrograph, CCD detector cooled to -50°C; dynamic Range: 16 bits	
Fiber-Optic Probe	HRP-8 high throughout laboratory fiber-optic Raman probe, O.D. > 8 Rayleigh rejection; working distance: 7 mm (Standard); 3 mm or 10 mm (Optional) 1.2meter jacketed fiber optics cable	
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, Excel for Post Processing and Modeling	
Physical		
Dimension (L x W x H)"	17" x 13" x 7"	
Weight	~ 25 LBS	
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

