



i-Raman[®] Plus Portable Raman Spectrometer & Video Microscope

High-Resolution Field Portable Raman

- Qualitative & Quantitative Analysis
- Easy to use, robust system
- Lab Grade System for Point of Need Analysis
- Fiber-Coupled Accessories for Every Sampling Situation

Features:

- Patented CleanLaze® technology for laser stabilization
- Laser power control from 1 - 100%
- Fiber-optic coupling for convenient sampling with range of accessories
- Broad Raman shift coverage from 65 cm⁻¹ for low frequency modes
- Spectral resolution as fine as 3.5 cm⁻¹
- Optional enclosure for microscope and probe holder for class 1 operation
- Software options for regulated and non-regulated operation, research, and real-time analysis

Specifications:

Laser		Exiting Probe	
532nm Excitation		30 mW, nominal	
785nm Excitation		340 mW, nominal	
Laser Power Control		0 to 100% (adjustable at 1% increments)	
Spectrometer	Range	Resolution*	
BWS465-532S	65 - 4200 cm ⁻¹	< 4.5 cm ⁻¹ @ 614 nm	
BWS465-532H	65 - 3400 cm ⁻¹	< 3.5 cm ⁻¹ @ 614 nm	
BWS465-785S	65 - 3350 cm ⁻¹	< 4.5 cm ⁻¹ @ 912 nm	
BWS465-785H	65 - 2800 cm ⁻¹	< 3.5 cm ⁻¹ @ 912 nm	
Detector			
Detector Type		High quantum efficiency CCD Array	
CCD Cooling Temperature		-2°C	
Integration Time		100 ms - 30 mins	
Power Options			
DC Power Adaptor		12V DC @ 6.6 Amps	
Battery		Optional	
Physical			
Dimensions		6.7 in x 13.1 in x 9.5 in (16.9 cm x 33.3 cm x 24.2 cm)	
Weight		~11.0 lbs (~5.0 kg)	
Operating Temperature		0°C - 35°C	
Humidity		10% - 85%, non-condensing	

*Resolution measured using atomic emission lines

