



# i-Raman<sup>®</sup> Plus Portable Raman Spectrometer & BAC151C Microscope

## High-Resolution Field Portable Raman

- Qualitative & Quantitative Analysis
- Raman Video Microsampling System
- Lab Grade System with Convenience of Mobility
- Fiber-Coupled Accessories for Every Sampling Situation

## Features:

- Patented CleanLaze® technology for laser stabilization
- Rayleigh line cut-off as low as 65 cm<sup>-1</sup> for low frequency modes
- Fiber-optic coupling for convenient sampling
- Up to 4200 cm<sup>-1</sup> Raman shift coverage
- Spectral resolution as fine as 3.5 cm<sup>-1</sup>
- Optional enclosure for microscope and probe holder

## Specifications:

Laser	Exiting Probe	At Laser Port
532nm Excitation	30 mW, nominal	42 mW, nominal
785nm Excitation	340 mW, nominal	455 mW, nominal
Laser Power Control	0 to 100% (adjustable at 1% increments)	
Spectrometer	Range	Resolution*
BWS465-532S	65 - 4200 cm <sup>-1</sup>	< 4.5 cm <sup>-1</sup> @ 614 nm
BWS465-532H	65 - 3400 cm <sup>-1</sup>	< 3.5 cm <sup>-1</sup> @ 614 nm
BWS465-785S	65 - 3350 cm <sup>-1</sup>	< 4.5 cm <sup>-1</sup> @ 912 nm
BWS465-785H	65 - 2800 cm <sup>-1</sup>	< 3.5 cm <sup>-1</sup> @ 912 nm
Detector		
Detector Type	High quantum efficiency CCD Array	
CCD Cooling Temperature	-2°C	
Integration Time	100 ms - 30 mins	
Electronics		
Computer Interface	USB 3.0 / 2.0	
Trigger	Yes (Compatible with B&W Tek Probes)	
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. Raman resolution per ASTM Standard Guide (Testing the Resolution of a Raman Spectrometer, E2529-06) available upon request.

