

## Laboratory Raman Product Line

### A Full Range of Research-Grade Raman Solutions



System	i-Raman® Plus		i-Raman® EX	i-Raman® Prime	
Part Number	BWT-840000360	BWT-840000340 BWT-840000358	BWT-840001234	BWT-840000673	BWT-840000674 BWT-840000675
Model Number	BWS465-532H	BWS465-785x	BWS485III	BWS475-532H-HT	BWS475-785x-HT
Laser excitation (nm)	532	785	1064	532	785
Laser Power at Probe (mW), nominal	30	340	330	35	340
Laser Power at Laser Port (mW), nominal	42	455	430	42	455
Spectral Range (cm <sup>-1</sup> )	65 - 3400	S: 65 - 3350 < 4.5 @ 912nm	100 - 2500	150 - 3400	S: 150 - 3350
Spectral Resolution (cm <sup>-1</sup> )	< 3.5 @ 614nm	H: 65 - 2800 < 3.5 @ 912nm	~10 @ 1296nm	< 8.0 @ 614nm	< 8.0 @ 912nm H: 150 - 2800 < 6.0 @ 912nm
Detector	-2° C TE-Cooled High Quantum Detector Efficiency CCD		-20° C TE-Cooled InGaAs	-25° C TE-Cooled High Quantum Efficiency CCD	
Relative Throughput*	2	1	0.2	10	5
Typical Readout Noise (counts)	15		15	3	
Typical Dark Current (count/sec)	6		50	3	
Integration Time	100 ms - 30 mins		200 µs to 5 min	7 ms - 30 min	
Computer Interface	USB 3.0 / 2.0			USB 2.0	
Weight	~ 11lbs (~ 5kg)		~ 7.6lbs (~ 3.4kg)	~19.5lbs (~8.8kg)	

\* Throughput is measured in Raman peak height normalized against integration time and laser power, relative to i-Raman Plus-785. For STRam, this is measured using the optional 9.5 mm dia. probe shaft.

#### Software:

- ★ BWSpec®
- ★ BWID®, BWID-Pharma® / Spectral Libraries Available
- ★ BWIQ® Chemometric Software
- ★ GemID® (Includes Library of > 450 Spectra)
- ★ Vision Software

#### Accessories:

- ★ Immersion Shafts
- ★ Video Microscope
- ★ Cuvette Holders / Liquid Vial Holders
- ★ Industrial Grade Probes; Flow Cells
- ★ Transmission Raman accessory
- ★ See-Through probes for opaque containers
- ★ Probe Holders with positioning stage
- ★ Full Range of Long-Working-Distance Lenses
- ★ Class 1 Enclosure