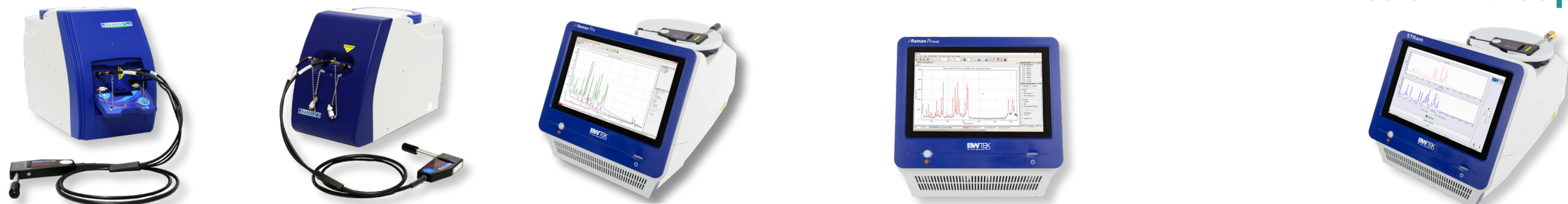


Portable Raman Product Line

A Full Range of Research-Grade Raman Solutions



System	i-Raman® Plus		i-Raman® EX	i-Raman® Pro	i-Raman® Prime			STRam®	
Part #	BWT-840000359 BWT-840000360	BWT-840000340 BWT-840000358	BWT-840000880	BWT-840000485 BWT-840000486	BWT-840000673	BWT-840000674 BWT-840000675	BWT-840001082	BWT-840000676	BWT-840000945
Model #	BWS465-532x	BWS465-785x	BWS485II	BWS475-785x	BWS475-532H-HT	BWS475-785x-HT	BWS475-1064-HT	BWS475-785H-ST	BWS475-1064-ST
Laser excitation (nm)	532	785	1064	785	532	785	1064	785	1064
Laser Power at Probe (mW), nominal	30	340	330	340	35	340	340	420	420
Laser Power at Laser Port (mW), nominal	42	455	430	455	42	455	455	NA	NA
Spectral Range (cm ⁻¹)	65 - 4200 < 4.5 @ 614 nm	65 - 3350 < 4.5 @ 912nm	100 - 2500 ~10 @ 1296 nm	65 - 3350 < 4.5 @ 912 nm	150 - 3400 < 8.0 @ 614 nm	150 - 3350 < 8.0 @ 912 nm	100 - 2500 < 10 @ 1296 nm	150 - 2800 < 6.0 @ 912 nm	100 - 2500 < 10 @ 1296 nm
Spectral Resolution (cm ⁻¹)	65-3400 < 3.5 @ 614 nm	65 - 2800 < 3.5 @ 912nm		65 - 2800 < 3.5 @ 912 nm		150 - 2800 < 6.0 @ 912 nm			
Detector	(- 2° C) TE-Cooled High Quantum Efficiency CCD Array		(- 15° C) TE-Cooled InGaAs Array	TE-Cooled (-25° C) High Quantum Efficiency CCD			(-20° C) TE-Cooled InGaAs Array	TE-Cooled (-25° C) High Quantum Efficiency CCD	(-20° C) TE-Cooled InGaAs Array
Relative Throughput*	2	1	0.2	1	10	5	0.2	5	0.2
Typical Readout Noise (counts)	15		15	5			15	5	15
Typical Dark Current (count/sec)	6		100	3			50	3	50
Integration Time	100 ms - 30 mins		200 μs to 5 min	7 ms – 30 min			200 μs to 5 min	7 ms – 30 min	200 μs to 5 min
Computer Interface	USB 3.0 / 2.0		USB 2.0 / 1.1	USB 2.0					
Weight	~ 11 lbs (~ 5 kg)		~ 7.6 lbs (~ 3.4 kg)	~19.5 lbs (~8.8 kg)					

* 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)
- Software Development Kit (SDK)
- Vision Software

Accessories:

- Immersion shafts
- Video microscope
- Cuvette holders / liquid vial holders
- Industrial grade probes; Flow cells
- Tablet holders
- Probe holders with positioning stage
- Full range of long-working-distance lenses
- Class 1 Enclosure