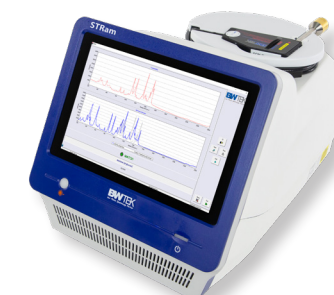
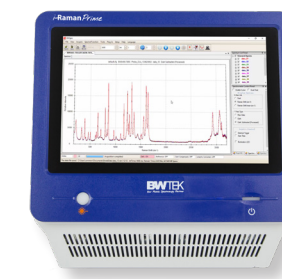
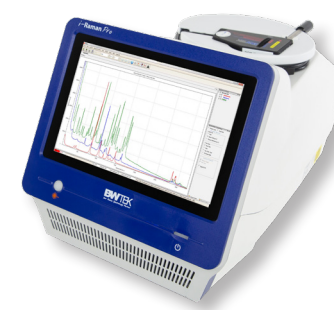


# Portable Raman Product Line

A Full Range of Research-Grade Raman Solutions



System:	i-Raman® Plus		i-Raman® EX	i-Raman® Pro		i-Raman® Prime		STRam®
Model #	BWS465-532x	BWS465-785x	BWS485II	BWS475-532x	BWS475-785x	BWS475-532H-HT	BWS475-785x-HT	BWS475-785H-ST
Laser excitation (nm)	532	785	1064	532	785	532	785	785
Laser power exiting probe (mW)	30 nominal	340 nominal	330 nominal	35 nominal	340 nominal	35 nominal	340 nominal	340 nominal
Laser power at laser port (mW)	42 nominal	455 nominal	430 nominal	42 nominal	455 nominal	42 nominal	455 nominal	455 nominal
Spectral range (cm <sup>-1</sup> )	65 - 4200 < 4.5 @ 614nm	65 - 3350 < 4.5 @ 912nm	100-2500	65 - 4200 < 4.5 @ 614nm	65 - 3350 < 4.5 @ 912nm	150 - 3400	150 - 3350 < 8.0 @ 912 nm	150-2800
Spectral resolution (cm <sup>-1</sup> )	65 - 3400 < 3.5 @ 614nm	65 - 2800 < 3.5 @ 912nm	< 10 @ 1296 nm	65 - 3400 < 3.5 @ 614nm	65 - 2800 < 3.5 @ 912nm	< 8.0 @ 614 nm	150-2800 < 6.0 @ 912 nm	< 6.0 @ 912 nm
Detector	-2°C TE-Cooled High Quantum Efficiency CCD Array		-15°±2°C TE-Cooled InGaAs Array	-25° C TE-Cooled High Quantum Efficiency CCD Array				
Relative throughput**	2	1	0.2	1	1	10	5	
Integration time	100 ms - 30 mins		200 µs to 5 min	7 ms - 30 mins				
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.

## Software

- BWSpec®
- BWID®, BWID-Pharma®/spectral libraries available
- BWIQ® chemometric software
- Software Development Kit (SDK)

## Services:

- Customer site application support
- IQ/OQ
- Method development
- Library building

## Accessories:

- Immersion shafts
- Video microscope
- Cuvette holders / liquid vial holders
- Industrial grade probes
- Tablet holders
- Probe holders with positioning stage
- Full range of long-working-distance lenses
- Enclosure for Raman sampling system