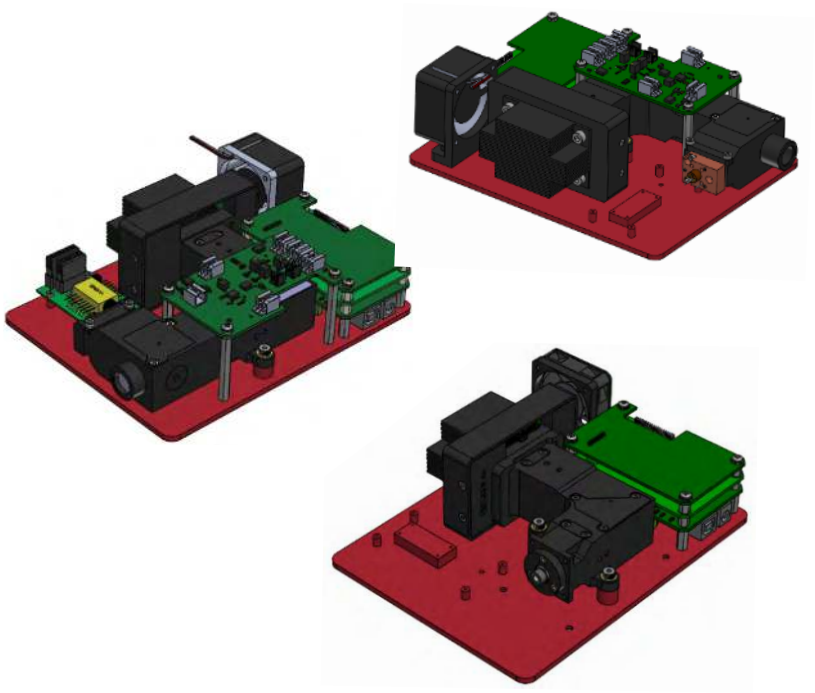
Wasatch Photonics

785 830

WP Raman Series for OEMs

Compact, powerful Raman to speed development



OPTIMIZED FOR OEM NEEDS

- Superior optical design based on our patented VPH transmission gratings
- f/1.3 input aperture for high throughput
- Compact design, Raman fingerprint range
- Configurable platform: spectrometer only / integrated laser / laser + interface optics
- Choice of detector cooling level to balance noise level, power draw & cost
- Excellent unit-to-unit reproducibility
- Robust, thermally stable optical bench
- Comprehensive SDKs & support

At Wasatch Photonics, we've built a team that understands the needs of OEM customers, and a spectrometer bench that exceeds them. Our OEM Raman spectrometers are robust, compact, and easy to integrate, yet deliver the same outstanding sensitivity of our standard laboratory instruments. Our transmission optical bench is designed with diffraction-limited optics, achieving an optimum balance of throughput and resolution across the fingerprint range, with alignment that remains stable across temperature and in the harshest environments. Consistency, reliability, and value are key when you're designing a product to be built in volume and deployed in the real world, and we deliver – in performance, in expertise, and in the quality of our service.

Partnership you can count on. Experience you can trust.

Contact us to get started!

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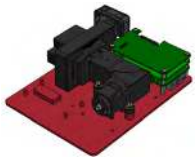
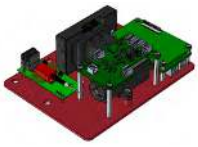
WP Raman Series for OEMs

STANDARD PRODUCT SPECIFICATIONS & OPTIONS

These powerful, highly compact OEM Raman spectrometers have been deployed in a wide range of applications, each one carefully & collaboratively configured to offer the best value for the task at hand. Standard configurations include spectrometer only, spectrometer + laser, or fully integrated spectrometer + laser & sampling optics, with a choice of detector cooling level to balance dark noise, cost, and power consumption. Need to minimize footprint and power draw for a handheld instrument? Consider our OEM-only single-mode laser option. Contact us to discuss your needs.

PART NUMBER	DETECTOR OPTION	SPECTRAL RANGE	RESOLUTION f/1.3 Input	DETECTOR COOLING	LASER OPTION	LASER + OPTICS	LASER OPTIONS & SPECIFICATIONS
WP 785 OEM	-A	200 - 2100 cm^{-1}	8 cm^{-1}	–	✓	✓	100 mW, single-mode or 450 mW, multimode
	-R	200 - 2100 cm^{-1}	8 cm^{-1}	10°C			
WP 830 OEM	-A	270 - 2400 cm^{-1}	9 cm^{-1}	–	✓	✓	100 mW, single-mode or 450 mW, multimode
	-R	270 - 2400 cm^{-1}	9 cm^{-1}	10°C			

**Resolution for a standard 25 µm slit. See product pages on wasatchphotonics.com for detailed specifications*

CONFIGURATION OPTIONS	SPECTROMETER	SPECTROMETER + LASER	SPECTROMETER + LASER + PROBE
Spectrometer input	Choose SMA connector or free space input (fixed slit size)		Fully integrated sampling optics: 22 mm working distance, 120 µm laser spot size on sample (60 µm for single-mode laser)
Laser output	N/A	FC/PC connector	
Dimensions & Weight	9.7 x 10.9 x 4.9 cm, 400 g	9.7 x 10.9 x 4.9 cm, 475 g	16.4 x 10.9 x 4.9 cm, 475 g
Operating Temperature	0°C to 40°C, non-condensing		
Communications	USB 2.0 Type B connector		
Software / Control	ENLIGHTEN™ software & SDKs for developers (included at no charge) C/C++, C#, Python, Delphi, LabView, MATLAB, and more		
Schematic / Layout (optional mounting plate with holes; flexible connection between optical bench & electronics also available)			 single-mode laser  multimode laser
Complete your OEM system with our matched accessories, or integrate your own	Raman probe / sampling optics, OEM laser module, sample interface	Raman probe / sampling optics, sample interface	Sample interface

We support custom optical designs & integration with customer electronics upon request

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