Wasatch Photonics

WP 785 Raman Spectrometer Series

Multipurpose Raman in 3 versatile formats

FEATURES AND BENEFITS

- 270 - 2000 cm^{-1} Raman range
- Superior sensitivity, compact size
- Robust optical design for stable, reproducible Raman spectra
- Easy to use Raman software & SDKs
- Multiple system configurations: modular, semi, and fully integrated
- Optional 450 mW interlocked laser
- Configurable for your specific sample and needs

Fast, clear fingerprint data at Raman's most popular wavelength - configured for your application
785 nm is the most versatile excitation wavelength for Raman, offering strong signal and relatively low fluorescence background for many organic and inorganic compounds. Our proprietary high-NA design was created specifically for the needs of Raman users like you. It captures more light from your sample, guiding it through optimized optics and our own patented high-efficiency VPH transmission gratings to deliver more sensitivity, less noise, and faster measurements than you'd ever expect from a compact spectrometer. It's built with rock-solid mechanics to give you the reproducibility, stability, and durability you need. It's run by Raman-ready software and SDKs that make spectral acquisition easy. That leaves only one question - which model is right for you? Let's explore that answer together.

Need advice or testing for your Raman application?
Contact us to get started!

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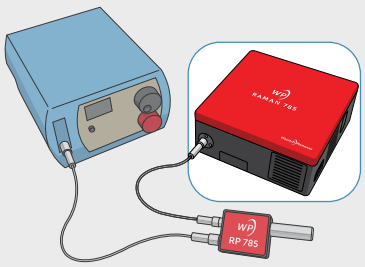
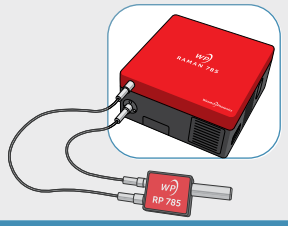
WP 785 Raman Spectrometer Series

STANDARD PRODUCT SPECIFICATIONS & OPTIONS

We believe Raman should be sensitive, robust, and reproducible, and its format should fit the unique requirements of *your* application. That's why we offer solutions that span three levels of integration, from fully modular & flexible to fully integrated & compact, each with configuration options that adapt to your needs. Whether you need a spectrometer or a full system, our experts can advise on the best value for you, and provide the data & testing to back it up.

SPECIFICATIONS

MODEL	PARAMETER		VALUE(S)		SYSTEM CONFIGURATION
SPECTROMETER	Measurement Range*		270 - 2000 cm^{-1}		**WP-785-SR-IC | FULLY MODULAR**
	Resolution	15 µm slit	6 cm^{-1} (-A, -R)	4 cm^{-1} (-C)	
		25 µm slit	7 cm^{-1} (-A, -R)	6 cm^{-1} (-C)	
		50 µm slit	11 cm^{-1} (-A, -R)	10 cm^{-1} (-C)	
	Spectrometer f/#		f/1.3		
	Spectrometer input		SMA 905 (lens or FC/PC optional)		
	Detector cooling options (see table below for details)		Uncooled/ambient (-A) TEC-regulated, 10°C (-R) TEC-cooled, -15°C (-C)		
SPECTROMETER & LASER	Integrated laser		785 nm (nominal)		**WP-785-SR-IL-IC | SEMI-INTEGRATED**
	Laser type		Multimode		
	Laser power		Up to 450 mW, control via software		
	Laser output		FC/PC connector		
SPECTROMETER LASER & SAMPLING OPTICS	Integrated laser		785 nm, multimode Up to 450 mW, control via software		**WP-785-SR-ILP | FULLY INTEGRATED**
	Sample interface optics		Fully integrated, matched NA optics (internal lens & filters)		
	Working distance (from face of lens)		22 mm		
	Laser spot size (nominal)		120 µm		

* Start and end wavenumber may be customized, but total range is fixed. Contact us for options.

DETECTOR OPTIONS		Uncooled (-A)	TEC-regulated (-R)	TEC-cooled (-C)
	Detector Temperature	Ambient	10°C ± 0.2°C	-15°C ± 0.2°C
	# of Pixels	1024	1024	1024
	Integration Time	3 ms - 60 s	3 ms - 60 s	25 ms - 60 s
	Communications	ENLIGHTEN™ desktop software & SDKs included; data transfer via USB 2.0		

Explore related products:

- Extended range 785 Raman: spectrometer only or semi-integrated models (100 - 3600 cm^{-1})
- Accessories: User-configurabe probes, sample holders & standalone lasers
- Streamlined drop-in OEM modules with the same sensitivity & speed

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