

# WP 785 Raman Spectrometer Series

Multipurpose Raman in 3 versatile formats



## FEATURES AND BENEFITS

270 - 2000  $\text{cm}^{-1}$  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

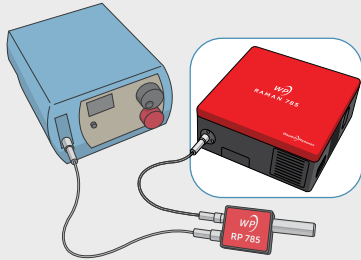
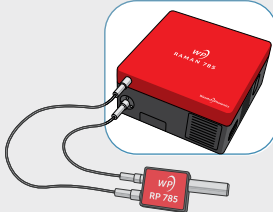

785 nm is the most versatile excitation wavelength for Raman, offering strong signal and relatively low fluorescence background for many organic and inorganic compounds. Our proprietary high-NA design was created specifically for the needs of Raman users like you. It captures more light from your sample, 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!**

# 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 $\text{cm}^{-1}$		<b>WP-785-SR-IC   FULLY MODULAR</b> 	
	Resolution	15 $\mu\text{m}$ slit	6 $\text{cm}^{-1}$ (-A, -R)		4 $\text{cm}^{-1}$ (-C)
		25 $\mu\text{m}$ slit	7 $\text{cm}^{-1}$ (-A, -R)		6 $\text{cm}^{-1}$ (-C)
		50 $\mu\text{m}$ slit	11 $\text{cm}^{-1}$ (-A, -R)		10 $\text{cm}^{-1}$ (-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)		<b>WP-785-SR-IL-IC   SEMI-INTEGRATED</b> 	
	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		<b>WP-785-SR-ILP   FULLY INTEGRATED</b> 	
	Sample interface optics	Fully integrated, matched NA optics (internal lens & filters)			
	Working distance (from face of lens)	22 mm			
	Laser spot size (nominal)	120 $\mu\text{m}$			

\* 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 $\pm$ 0.2°C	-15°C $\pm$ 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  $\text{cm}^{-1}$ )
- Accessories: [User-configurable probes](#), sample holders & [standalone lasers](#)
- Streamlined drop-in [OEM modules](#) with the same sensitivity & speed

