

WP 785 ER Raman Spectrometer Series

Extended range, excellent resolution



FEATURES AND BENEFITS

270 - 3600 cm^{-1} Raman range

Superior sensitivity, compact size

Robust optical design for stable, reproducible Raman spectra

Easy to use Raman software & SDKs

Two flexible system configurations: modular & semi-integrated

Optional 450 mW interlocked laser

Configurable for your specific sample and needs

High resolution fingerprint + functional group spectra at Raman's most popular wavelength



Extended range 785 nm Raman captures broadband spectra for analysis of nanomaterials, water content, proteins, and other materials high in saturated bonds. 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 ER 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 both fully modular and more compact, cost-effective semi-integrated solutions, 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.

PARAMETER		VALUE(S)		SYSTEM CONFIGURATION	
SPECTROMETER	Measurement Range (cm ⁻¹) *	270 - 3600 cm ⁻¹ (R)	270 - 3350 cm ⁻¹ (C)	WP-785-ER-IC FULLY MODULAR 	
	Resolution	10 μm slit	7 cm ⁻¹		7 cm ⁻¹
		25 μm slit	8 cm ⁻¹		9 cm ⁻¹
		50 μm slit	13 cm ⁻¹		13 cm ⁻¹
	Spectrometer f/#	f/1.3			
Spectrometer input	SMA 905 (lens or FC/PC optional)				
Detector cooling options (see table below for details)	TEC-regulated, 10°C (-R) TEC-cooled, -15°C (-C)				
SPECTROMETER & LASER	Integrated laser	785 nm (nominal)		WP-785-ER-IC SEMI-INTEGRATED 	
	Laser type	Multimode			
	Laser power	Up to 450 mW, control via software			
	Laser output	FC/PC connector			

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

DETECTOR OPTIONS		TEC-regulated (-R)	TEC-cooled (-C)
	Detector Temperature	10°C ± 0.2°C	-15°C ± 0.2°C
	# of Pixels	2048	1024
	Integration Time	3 ms - 60 s	8 ms - 60 s
	Communications	ENLIGHTEN™ desktop software & SDKs included; data transfer via USB 2.0	

Explore related products:

- Fingerprint range 785 Raman: [spectrometer only](#), [semi-integrated](#), and [fully integrated](#) models (270 - 2000 cm⁻¹)
- Accessories: [User-configurable probes](#), sample holders & [standalone lasers](#)
- Streamlined drop-in [OEM modules](#) with the same sensitivity & speed