

WP 405 Raman Spectrometer Series

A compelling short-wavelength alternative



FEATURES AND BENEFITS

300 - 3700 cm⁻¹ Raman range

Superior sensitivity, compact size

Robust optical design for stable, reproducible Raman spectra

Easy to use Raman software & SDKs

Ideal for creating a probe-based, modular Raman system

Configurable for your specific sample and needs

Look beyond 532 nm for comprehensive spectral coverage in materials analysis

405 nm Raman offers unique benefits for certain materials, including higher signal, reduced fluorescence, and simultaneous collection of photoluminescence. We leverage that with a proprietary high-NA design specifically for Raman. 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 guestion - 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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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 multiple configuration options that adapt to your needs, from choice of slit size and spectrometer input to detector cooling. Whether you're new to Raman or an experienced user, our experts can advise on the best value for you, and provide the data & testing to back it up.

	PA	RAMETER	VALUE(S)	SYSTEM CONFIGURATION	
SPECTROMETER	Measurement Range*		300 - 3700 cm ⁻¹ (-A, -R)	WP-405-SR-IC FULLY MODULAR	
			250-3000 cm ⁻¹ (-C)		
	Resolution	15 µm slit	8 cm ⁻¹		
		25 µm slit	12 cm ⁻¹		
		50 µm slit	20 cm ⁻¹		
	Spectrometer f/#		f/1.3	NP 405	
	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)		

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

DETECTOR		Uncooled (-A)	TEC-regulated (-R)	TEC-cooled (-C)
	Detector Temperature	Ambient	10°C ± 0.2°C	-15°C ± 0.1°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:

- <u>WP 532 spectrometer</u>: 125 3200 cm⁻¹ range, same footprint
- Need more 532 nm Raman coverage? Consider our <u>extended range WP 532 ER spectrometer</u>
- Matched-NA Raman probes to complete your system
- Consult us for recommended 405 nm lasers



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