

# WP 633 Raman Spectrometer Series

A sensitive solution for SERS



## FEATURES AND BENEFITS

275 - 2000  $\text{cm}^{-1}$  Raman range

Superior sensitivity, compact size

Robust optical design for stable, reproducible Raman spectra

Easy to use Raman software & SDKs

Two versatile system configurations: modular or fully integrated

Optional 50 mW interlocked laser

Configurable for your specific sample and needs

## Fast, clear fingerprint data for rapid, flexible detection of SERS signals and more

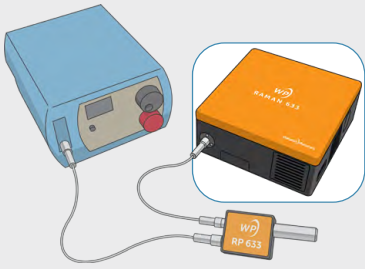

633 nm offers a signal boost over 785 nm Raman for low-fluorescence samples, and works well for both gold and silver-based SERS substrates and colloids. Our proprietary high-NA design was created specifically for the needs of Raman users like you. It captures more light from your sample, guiding it through 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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## 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 the choice of a flexible, modular setup or a compact, cost-effective integrated system, 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 <sup>-1</sup> ) *	275 - 2000 cm <sup>-1</sup>	<b>WP-633-SR-IC   FULLY MODULAR</b> 	
	Resolution	15 μm slit		5 cm <sup>-1</sup>
		25 μm slit		7 cm <sup>-1</sup>
		50 μm slit		13 cm <sup>-1</sup>
	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 & SAMPLING OPTICS	Integrated laser	633 nm, single-mode Up to 50 mW, control via software	<b>WP-633-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)	60 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:

- Need less fluorescence? Our [785 nm spectrometer](#) or [fully integrated system](#) could help
- Accessories: [User-configurable probes](#), sample holders & [standalone lasers](#)
- Developing a product? See our streamlined drop-in [785 nm OEM modules](#)