

WP Raman XL series

Capture your most challenging Raman signals



ULTIMATE SNR & RESOLUTION

High throughput optical bench design based on our patented VPH gratings

Choice of fiber input aperture: f/1.5 for maximum signal or f/2.0 for resolution

Compatible with ultra-cooled scientific cameras for extremely low-light Raman signals & long measurement times

Choice of fingerprint or extended range

User-configurable input coupling & slit

Internal opto-mechanical shutter for automated optical dark collection

Ideal for novel sampling optics & inputs

By popular request, we've designed one of our compact, high-throughput optical benches for use with an ultra-cooled scientific camera, giving you the best of both worlds for the most challenging Raman measurements in your research. Every Raman scattered photon is treated as precious by our high-efficiency optics and [patented VPH transmission gratings](#), with spectrometer configuration options that let you balance input aperture and range with resolution. Compatibility with ultra-cooled scientific cameras enables novel multi-channel and stacked-fiber measurements, while our user-interchangeable input coupling (-IC) makes unique sampling geometries & slit changes a breeze.

We offer the Raman applications expertise & sample evaluation you need to find your ideal solution.

Contact us to get started!





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STANDARD PRODUCT SPECIFICATIONS & OPTIONS

Our high-sensitivity optical bench is the perfect compliment to the performance of a scientific grade, ultra-cooled camera. We have optimized our designs for the Andor iDus 416 (532-830 nm) and iDus 490A (1064 nm) and offer these as integrated, pre-mounted options. We also let you configure the system with the ideal options and camera for your specific application and sample. Choose from fingerprint or extended range systems, and f/1.5 input for increased signal or f/2 for increased resolution, each compatible with our interchangeable coupling (-IC) system that enables selection of both slit size and input type. Need advice or wondering if your existing camera is compatible with our spectrometer? We offer extensive integration and applications experience, and would be happy to speak to your specific needs.

PART NUMBER	RANGE OPTION	SPECTRAL RANGE	RESOLUTION		DIMENSIONS & WEIGHT (excluding camera)
			f/1.5 Input	f/2.0 Input	
WP 532XL	-SR	150 - 2950 cm ⁻¹	6 cm ⁻¹	4 cm ⁻¹	18.3 x 20.0 x 10.7 cm, 3.4 kg
	-ER	110 - 4000 cm ⁻¹	—	6 cm ⁻¹	22.8 x 19.7 x 10.7 cm, 3.4 kg
WP 633XL	-SR	100 - 2500 cm ⁻¹	5 cm ⁻¹	4 cm ⁻¹	18.3 x 20.0 x 10.7 cm, 3.4 kg
	-ER	100 - 3750 cm ⁻¹	—	6 cm ⁻¹	22.8 x 19.7 x 10.7 cm, 3.4 kg
WP 785XL	-SR	150 - 2000 cm ⁻¹	5 cm ⁻¹	3 cm ⁻¹	18.3 x 20.0 x 10.7 cm, 3.4 kg
	-ER	100 - 3050 cm ⁻¹	—	6 cm ⁻¹	22.8 x 19.7 x 10.7 cm, 3.4 kg
WP 830XL	-SR	200 - 2000 cm ⁻¹	4 cm ⁻¹	3 cm ⁻¹	18.3 x 20.0 x 10.7 cm, 3.4 kg
WP 1064XL	-ER	200 - 2000 cm ⁻¹	8 cm ⁻¹	—	22.8 x 19.7 x 10.7 cm, 3.4 kg

*Resolution for a standard 25 μm slit and iDus 416 camera with 2000 pixels (WP 532XL, WP 633XL, WP 785XL, and WP 830XL) or iDus 490A camera with 512 pixels (WP 1064XL). Please refer to product pages on wasatchphotonics.com for detailed specifications for each model.

CONFIGURATION OPTIONS	OPTICAL SPECTROMETER BENCH + OPTIONAL CAMERA	
Spectrometer input Options	Fiber-coupled SMA or FC/PC / Free space collimating lens / Open slit (optional user-interchangeable coupling and slit, -IC)	
Optomechanical Shutter	Bistable shutter, controlled via TTL signal, BNC connection	
Operating Temperature	0°C to 40°C, non-condensing	
Camera Options	Optimized for Andor iDus 416 (2000 pixels) and iDus 490A (512 pixels) Optical bench is also compatible with other camera models. Contact us to discuss further	
Communications	Per camera specification (Andor Solis software & SDKs for standard models)	
SYSTEM TYPE	FULLY MODULAR - FIBER INPUT	FULLY MODULAR - CAGE SYSTEM
Complete your research system with our perfectly matched accessories, or design your own	User-configurable Raman probe / your own custom sampling optics, standalone laser, sample holder 	Optical cage system with your own custom sampling optics, standalone laser, sample holder 

Compatible with most Andor cameras or equivalent options