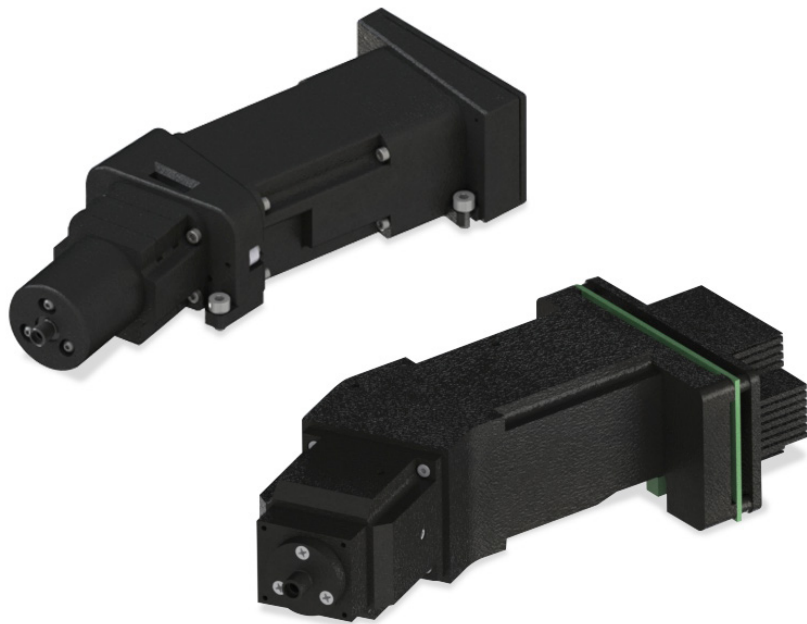


WP VIS-NIR & NIR OEM Spectrometers

Boost your signal & speed your time to market



FEATURES AND BENEFITS

- Industry-leading, high efficiency optics
- Patented VPH transmission gratings
- Diffraction-limited design for better SNR
- Excellent unit-to-unit reproducibility
- Robust, thermally stable optical bench
- Comprehensive engineering support
- Fiber coupled, free space & integrated laser models

At Wasatch Photonics, we've built a team that understands the needs of OEM customers, and a spectrometer bench that exceeds them. Our OEM spectrometers are robust, compact, and easy to integrate, while delivering the same outstanding sensitivity and SNR of our standard products. Our optical bench is designed in transmission with diffraction-limited optics, and remains aligned over temperature and at every wavelength to allow intensity matching to <10% across the spectrum. Consistency is key when you're designing a product to be built in the thousands, and we deliver – in performance, in expertise, and in the quality of our service.

Partnership you can count on. Experience you can trust.
Contact us to get started!



WP VIS-NIR & NIR OEM Spectrometers

PRODUCT SPECIFICATIONS & OPTIONS

The configuration options for our build-to-print OEM spectrometers include slit size (resolution), sample coupling (fiber coupled, free space, or integrated laser), and starting wavelength (dependent on input filter). Our regulated detector ensures excellent SNR and stability at low cost. Contact us to discuss your needs for custom wavelength or range.

OPTICAL			
MODELS AVAILABLE >		WP VIS-NIR OEM	WP NIR OEM
Wavenumber Range		350 - 1000 nm	900 - 1700 nm
Resolution	25 μm slit	1.5 nm	5 nm
	50 μm slit	3.0 nm	6 nm
f-number (f/#)		2.0	1.3
Coupling options		SMA 905 or free space port	SMA 905 or free space port

DETECTOR & ELECTRONICS			
MODELS AVAILABLE >		WP VIS-NIR OEM	WP NIR OEM
Hamamatsu Detector		S10420-1106 CCD	G9214-512SA InGaAs
Detector Temperature		10°C	-15°C
Detector Temperature Stability		$\pm 0.2^\circ\text{C}$	$\pm 0.1^\circ\text{C}$
Active Pixels		2048 x 64	512
Pixel Size		14 x 14 μm	25 x 500 μm
Detector QE/Photosensitivity: Average / Peak		66% / 77%	0.80 / 0.97 A/W
Dynamic Range		50,000	16,666
Signal to Noise Ratio (SNR)		500:1	2400:1
Readout Noise		6 e- RMS	180 e- RMS
Integration Time		3 ms - 60 s	1 ms - 60 s
Maximum Sample Frequency		< 250 Hz	< 250 Hz
Communications		USB 2.0 Type B connector	USB 2.0 Type B connector

DETECTOR & ELECTRONICS			
MODELS AVAILABLE >		WP VIS-NIR OEM	WP NIR OEM
Size		19.0 x 7.0 x 4.3 cm	18.3 x 7.5 x 4.8 cm
Weight		600 g	600 g
Power Consumption		TBD	TBD
Operating Temperature		0°C to 40°C, non-condensing	

Custom options available upon request

