Wasatch Photonics

WP VIS-NIR Spectrometer Series

High throughput for speed or sensitivity

FEATURES AND BENEFITS

- 400-1080 nm wavelength range
- f/2.0 input to capture more light
- Superior optical design based on transmissive VPH grating
- Fast data sampling rates
- Fiber coupled & free space models
- Compact, robust & configurable
- Excellent thermal stability

We've maximized the efficiency of our spectrometers to give you more sensitivity, better SNR, and faster measurements. Collect more light with our f/2.0 input, keep more light with our high transmission VPH gratings & diffraction-limited optics, and detect more light with scientific-grade detectors. Our build-to-print options for resolution, detector cooling, and sample coupling allow you to configure a spectrometer or system with the exact performance you need.

Wasatch Photonics offers the expertise & testing to find your optimal spectroscopy solution. Contact us to get started!

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WP VIS-NIR Spectrometer Series

STANDARD PRODUCT SPECIFICATIONS & OPTIONS

The configuration options for our build-to-print VIS-NIR spectrometers include slit size (resolution), sample coupling (fiber coupled or free space), and detector cooling. We offer ambient and regulated detectors, allowing you to balance your required signal to noise (SNR) and temperature stability with cost for the best possible value.

OPTICAL			
DETECTOR COOLING OPTIONS >		Ambient	Regulated
Spectral Range		400 - 1080 nm	
Resolution	10 µm slit	1 nm	
	25 µm slit	2 nm	
	50 µm slit	4 nm	
f-number (f/#)		2.0	
Connector (fiber coupled models only)		SMA 905	

DETECTOR & ELECTRONICS		
DETECTOR COOLING OPTIONS >	Ambient	Regulated
Hamamatsu Detector	S10420-1006 CCD	S10420-1006 CCD
Detector Temperature	ambient	10°C
Detector Temperature Stability	-	± 0.2°C
Active Pixels	1024 x 64	
Pixel Size	14 x 14 µm	
Detector Quantum Efficiency: Average / Peak	76% / 78%	
Dynamic Range	50,000	
Signal to Noise (SNR)	500:1	
Readout Noise	6 e- RMS	
Integration Time	7 ms - 60 s	
Maximum Sample Frequency	285 Hz	
Communications	USB 2.0 Type B connector	

MECHANICAL & ENVIRONMENTAL	
	Fiber or Free Space Coupled
Size	16.5 x 12.7 x 5.1 cm
Weight	1.2 kg
Operating Temperature	0 °C to 40 °C, non-condensing

Custom options available upon request

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