

WP VIS Spectrometer Series

See what the world sees, in detail



FEATURES AND BENEFITS

400-800 nm wavelength range

f/1.3 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/1.3 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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STANDARD PRODUCT SPECIFICATIONS & OPTIONS

The configuration options for our build-to-print VIS 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 - 800 nm		
Resolution	25 μm slit	1.5 nm		
	50 μm slit	2.5 nm		
f-number (f/#)		1.3		
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	73% / 77%			
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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