

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 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-NIR spectrometers include slit size (resolution) and sample coupling (fiber coupled or free space). Our high-sensitivity design allows you to capture spectra with excellent signal to noise in a fraction of the time of many spectrometers with cooled detectors, at lower cost.

OPTICAL		
Spectral Range		400 - 1080 nm
Resolution	10 μm slit	1.5 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	
Hamamatsu Detector	S10420-1006 CCD
Detector Temperature	ambient
Active Pixels	1024 x 64
Pixel Size	14 x 14 μm
Dynamic Range	50,000
Signal to Noise (SNR)	500:1
Integration Time	7 ms - 60 s
Maximum Sample Frequency	< 250 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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