

The SPM-002-NIR1700 is now more versatile with a InGaAs CCD detector to extend its spectral range up to 1700nm

Description:

SPM-002-NIR1700 uses a proprietary optical design to achieve a higher resolution than other spectrometers of the same size on the market. Our spectrometers are the only ones equipped with an internal DSP chip. This DSP is capable of handling complex signal processing tasks. It also boasts powerful software based on Labview which can be easily integrated into existing software using one of our development kits.

The SPM-002 – NIR1700 works extremely well with the SPL family of light sources and other accessories available at Photon Control.

Applications:

- Process Automation Technology (PAT)
- Petrochemical analysis
- Laser characterization and tuning
- Thin film thickness measurement
- Moisture measurement in wood fiber
- Reflectance, Transmission, Absorption
- Cellulose analysis
- Soil analysis
- Pharmaceutical industry
- Chemical Analysis
- Alcohol content analysis
- Sensors

Visit Photon-control.com for more details.



Features:

- Compact size and 512 pixels for high resolution
- Spectral range of 900-1700nm
- 16-bit A/D converter
- Feature rich software interface including data logging and beam profiling which can be user integrated using Software Development Kits for Labview, Visual C++ and Visual Basic

Product Model: SPM-002-NIR1700

Performance Specifications

Spectral Range (nm)	900-1700
Detector	Hamamatsu G9204-512D InGaAs linear array
Resolution (FWHM) (nm) (center/outer spectral range)	3.5 / 5
Fiber Input	SMA
Focal Length (mm)	70
Order Blocking Filters	Yes
A/D Resolution	16-bits
CCD Pixels	512
Integration Time Range	10 microseconds to 10 seconds
Triggering	Hardware trigger
Maximum Refresh Rate (Hz)	50

Operating Specifications

Temperature (° C)	-10 to +55
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Electrical Specifications

Interface	USB 2.0 High Speed at 480 Mbps
Power Requirements	10-30 VDC, 300 mA Max @ 12 VDC

Physical Specifications

Dimensions (mm)	101.5 x 90 x 53.4
Weight (g)	475
Slits (µm)	25

Product Options and Accessories

Fiber Patchcords	SMA 905 connectors	100 um core	VIS/NIR
	SMA 905 connectors	200 um core	VIS/NIR (Standard)
	SMA 905 connectors	400 um core	VIS/NIR
	SMA 905 connectors	600 um core	VIS/NIR
Slit Width (micron)	Other slit sizes such as 5, 10, 50, 75 and 100 micron are available upon request		
Fiber Input Receptacle	FC or ST receptacles available upon request		

Note: All spectrometers are shipped with an optical fiber patch cord, USB cable, user manual and an external power adapter.

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