

Offering versatility and high resolution, the SPM-002-NIR1700 is the cost-effective way to measure in the near-infrared region.

Overview:

The SPM-002-NIR1700 measures between the 900 nm to 1700 nm wavelength. The system runs on powerful software based on LabVIEW or it can be easily integrated into existing software using one of our software development kits.

*Applications:

*Some applications require additional software that is not included.

- 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



Features

- Compact size with high resolution
- 16-bit A/D converter
- Includes feature rich SpecSoft display and analysis software for data logging
- Convenient USB interface
- Compatible with the SPL family of light sources, accessories, software development kits and SpecSoft Pro from Photon Control

Contact us

Photon Control is a leader in precision measurement solutions, specializing in customization and OEM manufacturing. Visit www.photon-control.com for more information, or contact us at info@photon-control.com with your measurement requirements for engineering guidance and a quote.

Technical Specifications

Specifications	
SPM-002:	-NIR1700
Spectral Range (nm)	900-1700
Resolution (center/outer) (nm)*	5/8
Standard Slit (um)	25, 50, 100
Detector Type	Hamamatsu G9204-512D InGaAs linear array
Pixels	512
A/D Converter (bits)	16
Exposure Time Range	10 µs to 10 s
Temperature Range (°C)	-10 to +55
Focal Length (mm)	70
Triggering	Hardware trigger
Maximum Refresh Rate (Hz)	50
Interface	USB 2.0
Power Requirements	10-30 VDC 300 mA Max @ 12 VDC
Fiber Input	SMA
Dimensions	101.5 x 90 x 54.3

Product Options and Accessories

CWA-SMA-100-V-2	Fiber Optic Patch Cord - SMA 905 connector - 100 micrometer core - VIS/NIR - 2m
CWA-SMA-200-V-2	Fiber Optic Patch Cord - SMA 905 connector - 200 micrometer core - VIS/NIR - 2m (Standard with -A and -C)
CWA-SMA-400-U-2	Fiber Optic Patch Cord - SMA 905 connector - 400 micrometer core - VIS/NIR - 2m
CWA-SMA-600-V-2	Fiber Optic Patch Cord - SMA 905 connector - 600 micrometer core - VIS/NIR - 2m (Standard with -B, -D, -E)

Note: All spectrometers are shipped with a fiber optic patch cord, USB cable, user manual, external power adapter and SpecSoft display and analysis software. Software Development Kits and SpecSoft Pro are available at additional costs.