A convenient high resolution bench-top spectrometer with a center wavelength configurable to your specific needs.

Overview:

The SPM-001 measures in the ultraviolet, visible, and near-infrared wavelengths and features a proprietary optical design to achieve up to 0.12 nm resolution (SPM-001-M). It also runs on powerful user software based on LabVIEW or easily integrated into existing software using one of our software development kits.

*Applications:

*Some applications require additional software that is not included.

- Visible Spectrum/ Color Monitoring
- Biophotonics
- Transmission
- Laser/ Light Source Monitoring
- Absorption
- Ultra-fast Lasers and Laser Tuning
- Fluorescence
- Molar Concentration
- Optical Inspection
- Chemical Analysis
- Reflection
- Scattering

Features

- Center wavelength can be factory configured to specific values to meet almost any need

- 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.

Certified System

ISO 9001:2008
QMI-SAI Global

Technical Specifications

SPM-001:	-M	-N
Spectral Range (nm) Most Common Ranges	190-1100 740-860*	190-1100 680-920*
Resolution (center/outer) (nm) *	0.12 / 0.18	0.24 / 0.30
Standard Slit (um)	10	10
Fiber Input	FC	FC
Detector Type	CCD	CCD
Pixels	3648	3648
A/D Converter (bits)	12	12
Exposure Time Range	10 µs to 65 s	10 µs to 65 s
Dimensions (mm)	196 x 86 x 53	196 x 86 x 53
Temperature Range (°C)	-10 to 55	-10 to 55
Triggering	Hardware trigger	Hardware trigger
Maximum Refresh Rate (Hz)	20	20
Interface	USB 2.0	USB 2.0
Power Requirements	10-30 VDC, 300 mA Max @ 12 VDC or USB powered	10-30 VDC, 300 mA Max @ 12 VDC or USB powered
		30°C maximum to maintain minimum dectector temperature*
	1. Slit sizes of 10, 25, 50 and 100um are available	2.SMA or FC fiber input available on all models

*Center wavelength can be factory configured within the 120 nm range for the SPM-001-M and the 240 nm range for the SPM-001-N up to 1100 nm.

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.