

The SPM-001 is Photon Control's convenient, high resolution benchtop spectrometer. We can configure the center wavelength to meet your specific needs.



Description

The SPM-001 is Photon Control's high resolution benchtop spectrometer. It uses a proprietary optical design to achieve up to 0.12nm resolution (SPM-001-M). Our spectrometers are the only ones equipped with an internal DSP chip. There is no need for an external computer to process data. It also boasts powerful software based on Labview which can be easily integrated into existing software using one of our development kits.

Applications:

- Visible spectrum/ colour monitoring
- UV, Visible, NIR (Near Infrared)
- Biophotonics
- Transmission
- Laser / Light Source Monitoring
- Absorption
- Ultra-fast lasers and laser tuning
- Fluorescence
- Molar Concentration
- Optical Inspection
- Chemical Analysis
- Reflection
- Scattering

The SPM-001 works extremely well with the SPL family of light sources and other accessories available at Photon Control.

Visit photon-control.com for more details.

Features:

- *Center wavelength can be factory configured to specific values to meet almost any need*
- *Inboard DSP saves on having to process data externally*
- *Software interface includes data logging and beam profiling and can be user integrated using Software Development Kits for Labview, Visual C++ and Visual Basic*
- *Convenient USB interface*

Product Model:	SPM-001-M	SPM-001-N
Performance Specifications		
Spectral range (nm)*	740-860	680-920
Center/Outer Spectral Range	0.12/0.18	0.24/0.3
Fiber Input	FC	FC
Focal Length (mm)	150	150
A/D Resolution	12-bits	12-bits
CCD Pixels	3648	3648
Integration Time Range	10 microseconds to 65 seconds	10 microseconds to 65 seconds
Triggering	Hardware trigger	Hardware trigger
Maximum Refresh Rate (Hz)	20	20
* Center wavelength can be factory configured to a number of different values between 600 and 1000nm depending on your application. Ask our engineering representatives how we can help you meet your spectral needs.		
Operating Specifications		
Temperature (°C)	-10 to +55	-10 to +55
Electrical Specifications		
Interface	USB 2.0 compatible *	USB 2.0 compatible *
Power Requirements	10-30 VDC, 300 mA Max. @ 12 VDC or USB powered	10-30 VDC, 300 mA Max. @ 12 VDC or USB powered
* Full Speed USB Connection at 12 Mbps		
Physical Specifications		
Dimensions (mm)	196 x 89 x 52	196 x 89 x 52
Weight (g)	545	545
Slits	10 um	10 um

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

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