

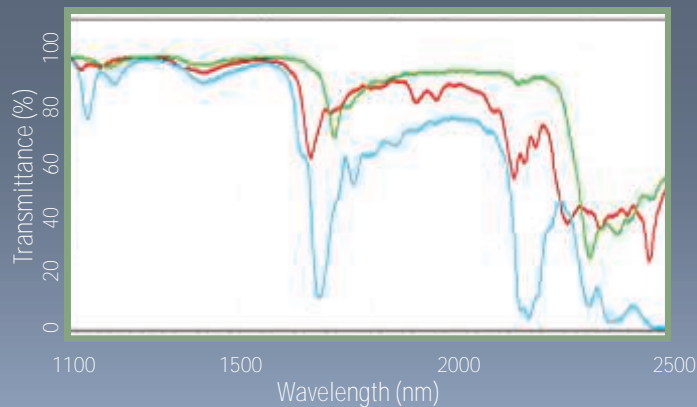
spectral evolution

PSM Series Si / InGaAs Multiple Array

UV-VIS-NIR Full Range Portable Spectrometers

Lightweight, convenient and easy to move from project to project- while offering the performance of a full featured unit including:

- ▶ **Fast, full spectrum UV-VIS-NIR measurements with no moving gratings for improved reliability**
- ▶ **Industry standard SMA fiber optic connections for easy interchangeability**
- ▶ **Integral dark shutter for convenient, accurate scans**
- ▶ **Bluetooth interface for wireless, remote sensing**
- ▶ **Li-Ion Rechargeable batteries (2 provided) with separate external charger for continuous use**
- ▶ **Lightweight powder-coated aluminum case for added durability**
- ▶ **Software for both Windows-based laptops and Bluetooth-compatible personal digital assistant (PDA) for maximum flexibility**
- ▶ **Membrane control panel for stand-alone operation without a computer connection**
- ▶ **Nylon carrying strap with sturdy, reinforced eyelets for added security**



Material QC and Process Control

SPECTRAL EVOLUTION Spectrometers are ideal for one-touch full-range spectroscopic analysis of samples. Trans-reflectance of three different plastic films were measured using the SPECTRAL EVOLUTION PSM-3500 with its included 4° lens foreoptic. Each scan takes less than 1 second. Scans can either be processed immediately using a computer or handheld PDA, or stored in memory for later processing.

Customize your SPECTRAL EVOLUTION Portable Spectrometer with the options you really need!

SPECTRAL EVOLUTION Spectrometers can be customized with a variety of options including a choice of foreoptics, fiber optics, diffusers and integrating spheres. You can also specify hard or soft case options. Even if you have an unusual need— our team has worked with many customers to find the right accessories for their unit— even if we need to build it just for you!



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PSM Series Si / InGaAs Multiple Array

UV-VIS-NIR Full Range Portable Spectrometers

PSM-3500

PSM-2500

PSM-1900

	PSM-3500	PSM-2500	PSM-1900
Spectral Range	350-2500nm	350-2500nm	350-1900nm
Spectral Resolution	3.5nm (350-1000nm) 10nm @ 1500nm 7nm @2100nm	3.5nm (350-1000nm) 22nm @ 1500nm 22nm @ 2100nm	3.5nm (350-1000nm) 10nm (1000-1900nm)
Spectral Sampling Bandwidth	1.5nm (350-1000nm) 3.8nm @ 1500nm 2.5nm @2100nm	1.5nm (350-1000nm) 6nm @ 1500nm 6nm @ 2100nm	1.5nm (350-1000nm) 3.8nm @ 1500nm
Si Detectors	512 element Si array (350-1000nm)	512 element Si array (350-1000nm)	512 element Si array (350-1000nm)
InGaAs Detectors	256 element extended wavelength array (970-1910nm) 256 element extended wavelength array (1900-2500nm)	256 element extended wavelength array (970-2500nm)	256 element extended wave- length array (970-1900nm)
FOV Options	4°, 8°, or 14° lens, 23° fiber optic, diffuser, integrating sphere	4°, 8°, or 14° lens, 23° fiber optic, diffuser, integrating sphere	4°, 8°, or 14° lens, 23° fiber optic, diffuser, integrating sphere
Stray light	0.10%	0.10%	0.10%
Minimum Scan Speed	1 second	1 second	1 second
Wavelength Reproducibility	0.1nm	0.1nm	0.1nm
Wavelength Accuracy	±0.5 bandwidth	±0.5 bandwidth	±0.5 bandwidth
Communications interface	USB, Bluetooth	USB, Bluetooth	USB, Bluetooth
Size	8.5" x 11.5" x 3.25"	8.5" x 11.5" x 3.25"	8.5" x 11.5" x 3.25"
Tripod mounting	2 each ¼-20 mounting holes provided	2 each ¼-20 mounting holes provided	2 each ¼-20 mounting holes provided
Weight	7.3 lbs	7.3 lbs	7.3 lbs
Batteries	Two lithium ion; 7.4V	Two lithium ion; 7.4V	Two lithium ion; 7.4V
Battery Operation	Removable battery; minimum 2 hour operation	Removable battery; minimum 2 hour operation	Removable battery; minimum 2 hour operation
On board memory	Storage of 500 spectra	Storage of 500 spectra	Storage of 500 spectra



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