



Full range UV-VIS-NIR-SWIR Lab Spectroradiometers

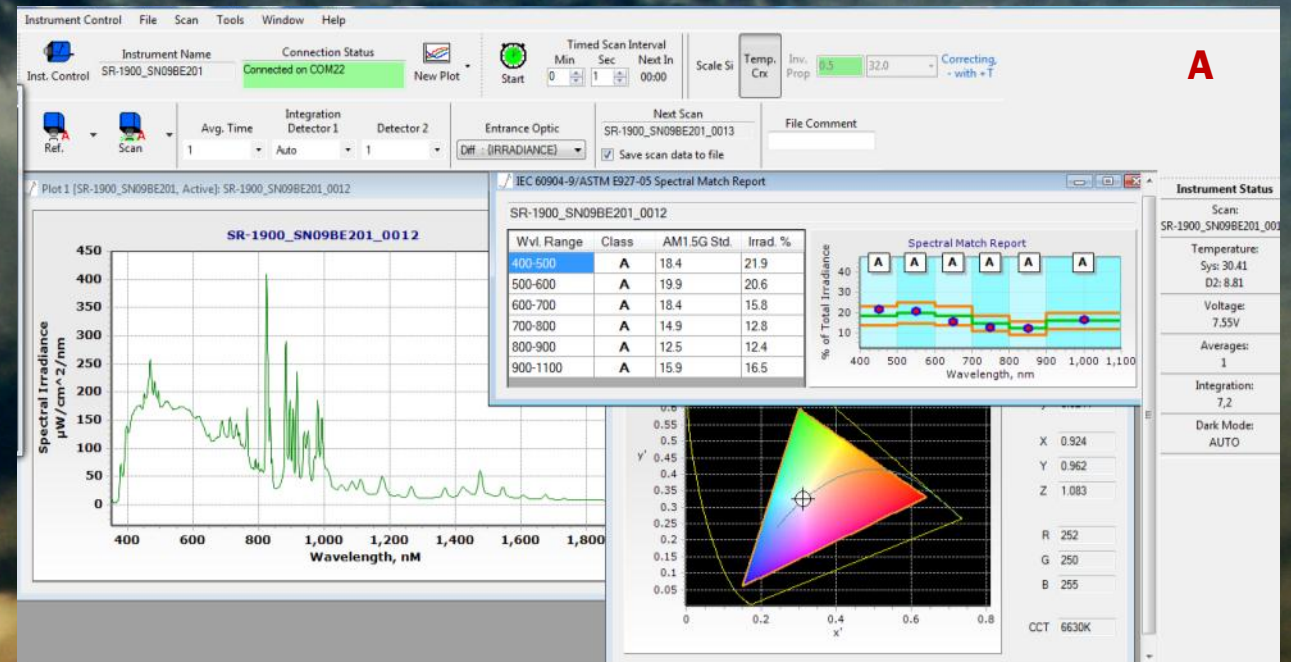


Fast, full featured and flexible!

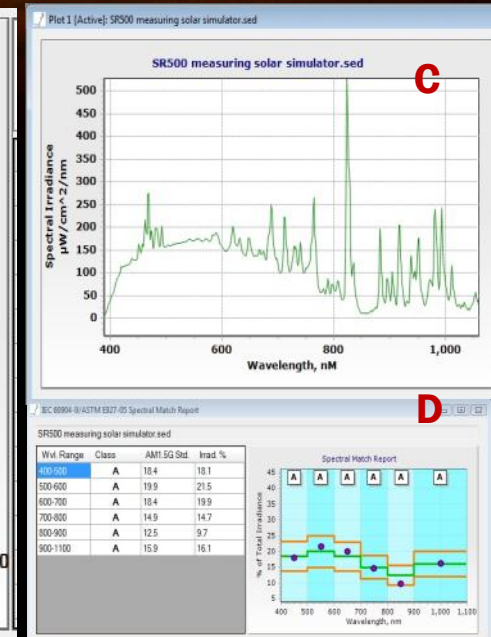
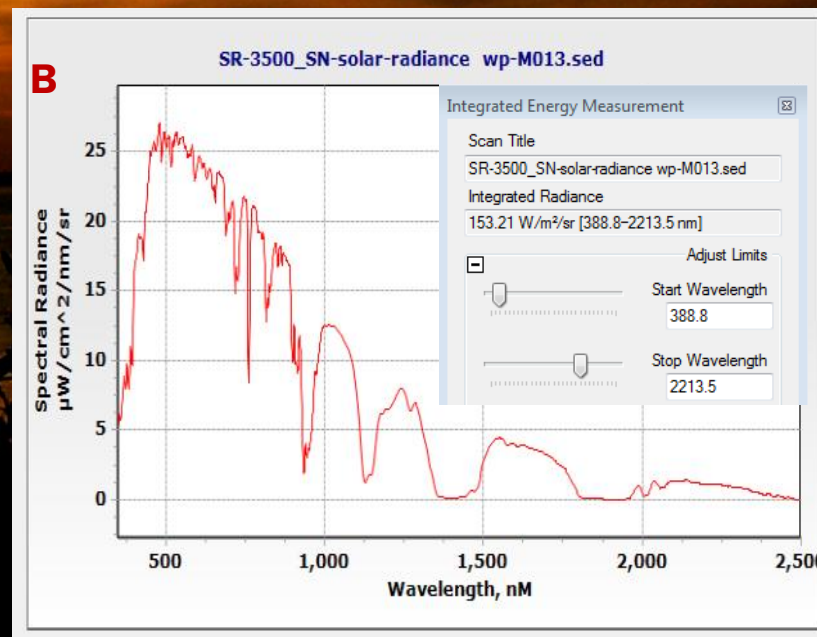
All SR Series Spectroradiometers feature NIST-traceable calibration and automatic dark current shutter control for easy one-touch spectral radiance & irradiance measurements.

- ◆ Full range UV-VIS-NIR-SWIR measurements with just one scan– no hassling with multiple spectroradiometers
- ◆ InGaAs/Si photodiode array optics- no moving gratings or internal fiber optics to break or jam
- ◆ No-fuss autoexposure control– thanks to 7 decades of dynamic range response
- ◆ Fast, convenient, accurate one-touch scans– autoscaling & auto dark current shutter
- ◆ Easy to set up anywhere– compact, lightweight single-box design with intuitive software menus.

All SPECTRAL EVOLUTION Spectroradiometers come with our exclusive DARWin SP Data Acquisition Package– an easy-to-use menu driven software program designed to analyze spectral irradiance, radiance, reflectance, transmittance, absorbance and more....



The exclusive DARWin SP Data Acquisition Module included with each unit allows for full featured instrument control and data handling. (A) The SR-1900 Spectroradiometer equipped with 1m fiber optic and right angle cosine diffuser was used to analyze the performance of a commercial solar simulator as per IEC60904-9/ASTM E927-05. The DARWin SP Data Acquisition software contains subroutines to analyze class performance and create spectral match reports. Pull-down menus for CIE color space are also available. (B) The full range SR-3500 was used to measure outdoor solar radiance using a 4° lens foreoptic and white reflectance plate. Pull down menus allow for easy calculation of integrated energy measurement. (C, D) Even our entry level SR-500 Spectroradiometer comes with all necessary subroutines to generate high quality solar spectra. The figures below demonstrate the radiometric analysis of a commercial solar simulator taken at a customer site. All SPECTRAL EVOLUTION Spectroradiometers are lightweight and easy to carry anywhere.



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Meet our entire lineup of fast, full featured and flexible laboratory spectroradiometers – the easiest full spectrum instruments to set up and use – from **SPECTRAL EVOLUTION**

Model	SR-3500	SR-2500	SR-1900	SR-1600	SR-1100	SR-500
Spectral Range	350-2500nm	350-2500nm	350-1900nm	300-1700nm	320-1100nm	320-1100nm
Spectral Resolution <small>(alternate slit configurations for improved spectral resolution available)</small>	3.5nm (350-1000nm)			5nm (300-1000nm)	3.2nm	
	10nm@1500nm; 7nm@2100nm	22nm@1500nm & 2100nm	10nm (1000-1900nm)	10nm (1000-1700nm)		
Sampling Bandwidth	1.5nm (350-1000nm)	1.5nm (350-1000nm)	1.5nm (350-1000nm)	1.5nm (300-1000nm)	1.5nm (300-1000nm)	
	3.8nm@1500nm; 2.5nm@2100nm	6nm@ 1500nm & 2100nm	3.8nm@1500nm	1.5nm @ 1500nm		
Spectrometer Type	3 Diffraction Gratings	2 Diffraction Gratings			1 Diffraction Grating	
Detectors	512 element UV-enhanced Si Array					
	Two 256-element extended InGaAs arrays	256-element extended InGaAs array		512 element InGaAs Array		
Calibration	Factory calibrated for radiance and irradiance using NIST traceable source					
Entrance Optic Options	Full range of available optics including 4°, 8° or 14° field of view lens, fiber optic cables, integrating spheres and right angle diffusers				0.5 meter fiber optic cable with right angle diffuser	
Software included	DARWin SP Data Acquisition					
Power	7.5V, 23W	7.5V, 15W			6-12V, 0.5W	
Dimensions	8.5" x 12" x 3.5"				5.5"x 2.5" x 6.5"	4" x 2" x 5"
Weight	less than 8 pounds				less than 3 pounds	less than 2 pounds
Interface	USB, Bluetooth					USB
Integration Time	7.5 - 1000 ms					
Shutter for dark scans	Yes					
Automatic exposure	Yes					
A/D Converter	16 bit					
λ Reproducibility	0.1nm					
λ Accuracy	0.5nm					



All SPECTRAL EVOLUTION lab spectroradiometers (except SR-500 and SR-1100) can be ordered with a full range of optics choices including fiber optics with right angle diffusers (top), direct mounted integrating spheres (top left) and field of view lenses (top right). Both the base models SR-1100 and SR-500 come complete with a 0.5m fiber optic cable and right angle cosine diffuser for easy set-up and use (SR-500 shown below).

