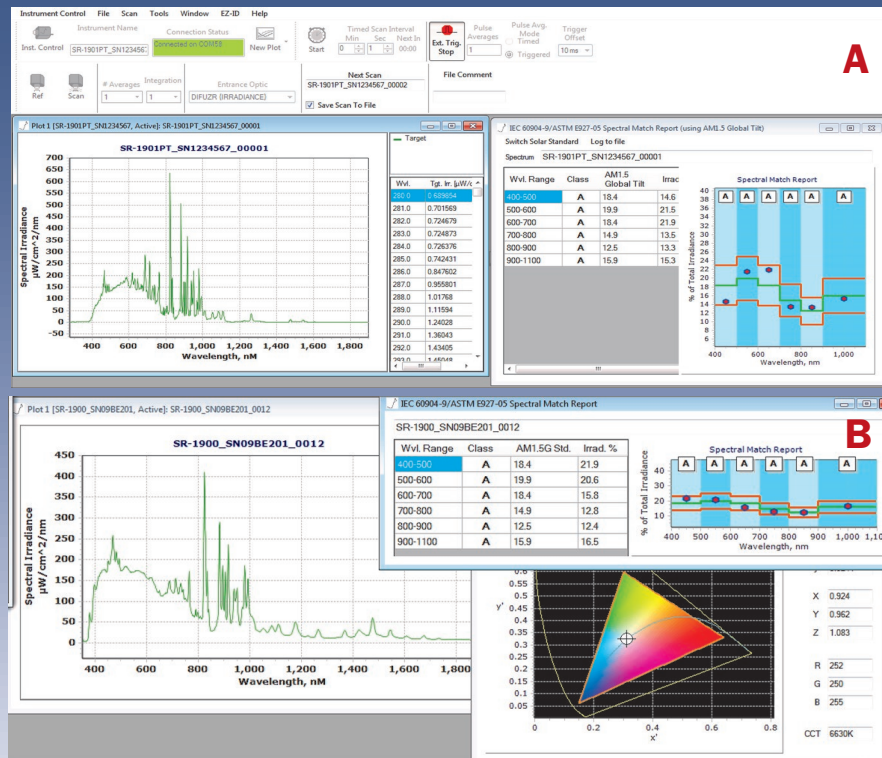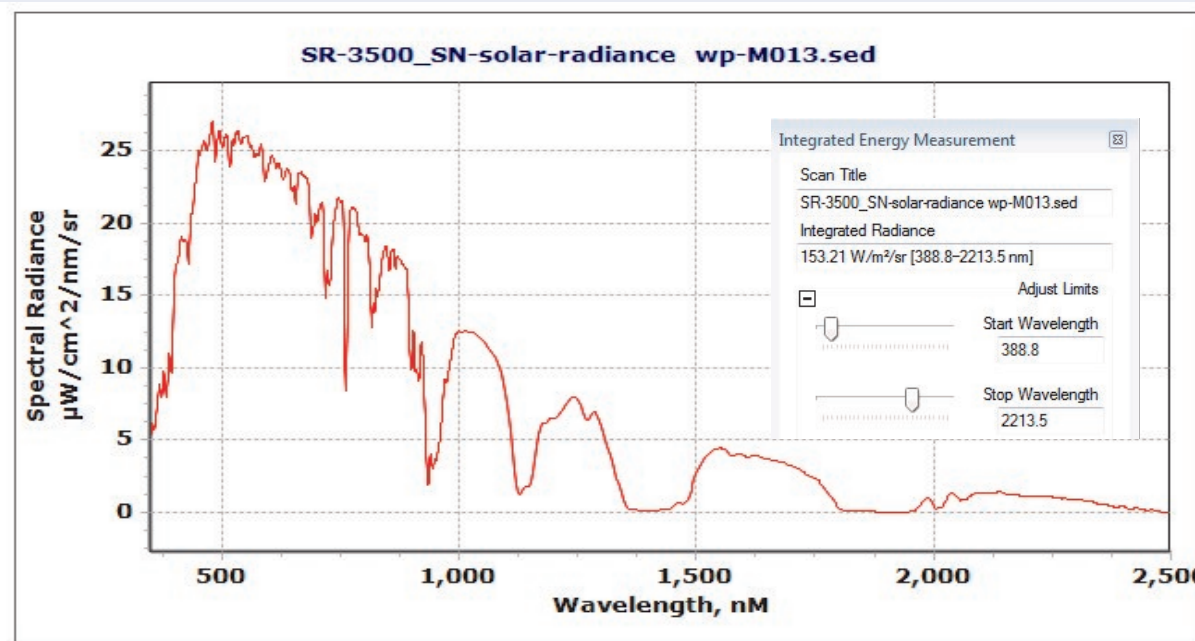All SPECTRAL EVOLUTION Spectroradiometers come with our exclusive DARWin SP Data Acquisition Package– an easy-to-use menu driven software program designed to analyze spectral irradiance, radiance, reflectance, transmittance, absorbance and more....

The exclusive DARWin SP Data Acquisition Module included with each unit allows for full featured instrument control and data handling. (A) The SR-1901PT Spectroradiometer equipped with 2m fiber optic and right angle cosine diffuser was used to analyze the performance of a pulsed solar simulator as per AM1.5. In (B) the SR-1900 was used to classify a continuous solar simulator to IEC60904-9/ ASTM E927-05. The DARWin SP Data Acquisition software contains subroutines to analyze class performance and create spectral match reports. Pulldown menus for CIE color space are also available.

The full range SR-3500 was used to measure outdoor solar radiance reflected off a white reflectance plate, using a 4° lens foreoptic. Pull down menus allow for easy calculation of integrated energy measurement.. All SPECTRAL EVOLUTION Spectroradiometers are lightweight and easy to carry anywhere.

Full Range Spectroradiometers UV-VIS-NIR-SWIR

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.

www.spectralevolution.com

Meet our entire lineup of fast, full featured, and flexible laboratory spectroradiometers

- Full range UV/VIS/NIR/SWIR measurements with just one scan—
- No moving gratings or internal fiber optics to break or jam
- No fuss autoexposure control; - thanks to 7 decades of dynamic range response

- Fast, accurate one-touch scans—autoscaling & auto dark current shutter
- Easy to set up anywhere—compact, lightweight, single-box design
- DARWin SP Data Acquisition software captures spectra in ASCII format for use with third party software—no post-processing required

Model	SR-6500(A)	SR-4500(A)	RS-5400	SR-3500	SR-3501	SR-2500	SR-1901	SR-1901PT
Spectral Range	350-2500nm	350-2500nm	350-2500nm	350-2500nm	280-2500nm	350-2500nm	280-1900nm	280-1900nm
Spectral Resolution	1.5nm @700nm 3nm @ 1500nm 3.8nm @2100nm	3nm @700nm 8nm @ 1500nm 6nm @2100nm	2.5nm @700nm 5.5nm @ 1500nm 5.8nm @2100nm	2.8nm @700nm 8nm @ 1500nm 6nm @2100nm	4nm (280-1000nm) 9.5nm@1500nm 7.0nm @2100nm	3.5nm (350-1000nm) 22nm @ 1500nm 22nm @2100nm	4nm (280-1000nm) 10nm (1000-1900nm)	4nm (280-1000nm) 10nm (1000-1900nm)
Sampling Bandwidth	Data output in 1nm increments; 2151 channels reported	Data output in 1nm increments; 2151 channels reported	Data output in 1nm increments; 2151 channels reported	Data output in 1nm increments; 2151 channels reported	Data output in 1nm increments; 2221 channels reported	Data output in 1nm increments; 2151 channels reported	Data output in 1nm increments; 1621 channels reported	Data output in 1nm increments; 1621 channels reported
Spectrometer Type	3 Diffraction Gratings						2 Diffraction Gratings	
Detectors	1024 -element UV-enhanced TE-cooled Si Array 512-element TE-cooled InGaAs array 512-element TE-cooled extended InGaAs array	512-element UV-enhanced TE-cooled Si Array Two 256-element TE-cooled extended InGaAs arrays	1024 -element UV-enhanced Si Array 512-element TE-cooled InGaAs array 512-element TE-cooled extended InGaAs array	512-element UV-enhanced Si Array				
				Two 256-element TE-cooled extended InGaAs arrays		256-element TE-cooled extended InGaAs array		
Calibration	Factory calibrated for radiance and/or irradiance using NIST traceable source (depending upon optics selection)							
Noise Equivalence Radiance W/cm²/nm/sr (1.2 meter fiber optic)	0.8x10⁻⁹ @400nm 0.3x10⁻⁹ @1500nm 5.8x10⁻⁹ @2100nm	0.2x10⁻⁹ @400nm 0.2x10⁻⁹ @700nm 0.9x10⁻⁹ @900nm 1.2x10⁻⁹ @1500nm 1.8x10⁻⁹ @2100nm	0.3x10⁻⁹ @400nm 0.1x10⁻⁹ @1500nm 2.5x10⁻⁹ @2100nm	0.8x10⁻⁹ @400nm 1.2x10⁻⁹ @1500nm 1.8x10⁻⁹ @2100nm	0.8x10⁻⁹ @400nm 1.2x10⁻⁹ @1500nm 1.8 x10⁻⁹ @2100nm	0.8x10⁻⁹ @400nm 1.5x10⁻⁹ @1500nm 1.8x10⁻⁹ @2100nm	0.8x10⁻⁹ @400nm 1.2x10⁻⁹ @1500nm	
Stray light	≤0.1%; VNIR: <0.03%; SWIR<0.02%							
Software included	DARWin SP Data Acquisition							
Power	7.5V, 33W	7.5V, 30W	7.5V, 33W	7.5V, 23W		7.5V, 15W		
Dimensions	12.4"x 8.7"x 4.4"	8.5"x 13"x 5"	12.4"x 8.7"x 4.4"	8.5" x 11" x 3.5"				
Weight	12.64 lbs	12.26 lbs	12.64 lbs	8.52 lbs			7.52 lbs	
Interface	USB, Bluetooth							
Integration Time	1 - 1000 ms							1-50 ms
Shutter for dark scans	Yes							
Automatic exposure	Yes							
Match Radiance	VNIR: 10 x Solar; SWIR: 2 x Solar							
λ Reproducibility	0.1nm							
λ Accuracy	0.5nm							
TTL & Phototriggering for pulsed measurement	No							Yes