



Full Range Spectroradiometers UV-VIS-NIR-SWIR



Fast, full featured and flexible!

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

www.spectralevolution.com



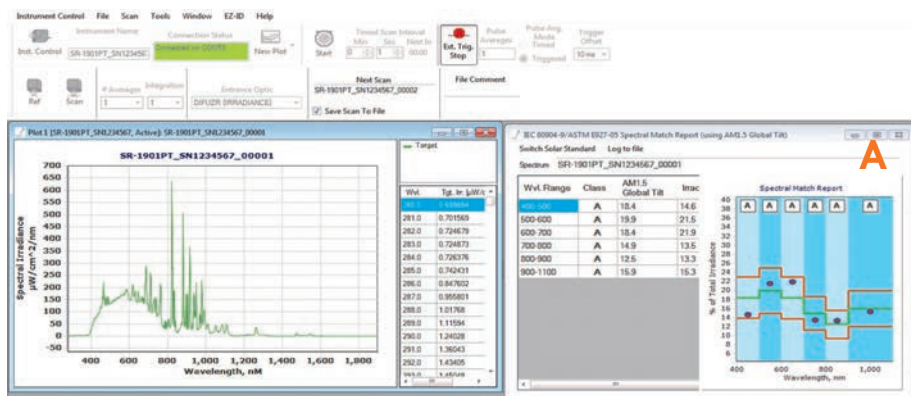
Discover our full range of quick, feature-rich, and adaptable laboratory spectroradiometers.



- 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	CalibraSpec 6500A	CalibraSpec 4500A	RS-5400	SR-3500	SR-1901PT	PrimaSpec
						
Spectral Range	350-2500nm	350-2500nm	350-2500nm	350-2500nm	280-1900nm	350-2500nm
Spectral Resolution	1.5nm @ 700nm 3nm @ 1500nm 3.8nm @ 2100nm	3nm @ 350-1000nm 8nm @ 1500nm 6nm @ 2100nm	2.5nm@700nm 5.5nm@1500nm 5.8nm@2100nm	2.8nm@700nm 8nm@1500nm 6nm@2100nm	4nm (280-1000nm) 10nm (1000-1900nm)	4nm (350-1000nm) 10nm @ 1500nm 10nm @ 2100nm
Sampling Bandwidth (nm)	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; 1621 channels reported	Data output in 1nm increments; 2151 channels reported
Spectrometer Type	3 Diffraction Gratings	3 Diffraction Gratings	3 Diffraction Gratings	3 Diffraction Gratings	2 Diffraction Gratings	-
Detector(s)	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 ----- 256-element TE-cooled InGaAs array ----- 256-element TE-cooled InGaAs array	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	512-element UV-enhanced Si Array ----- 256-element TE-cooled extended InGaAs array	12 element Si Array (350-1000nm) ----- 256-element extended wavelength array (1000-1900nm)
Calibration	Factory calibrated for radiance and/or irradiance using NIST traceable source (depending upon optics selection)	Factory calibrated for radiance and/or irradiance using NIST traceable source (depending upon optics selection)	Factory calibrated for radiance and/or irradiance using NIST traceable source (depending upon optics selection)	Factory calibrated for radiance and/or irradiance using NIST traceable source (depending upon optics selection)	Factory calibrated for radiance and/or irradiance using NIST traceable source (depending upon optics selection)	-
Noise Equivalence Radiance W/cm2/nm/sr	0.4x10 ⁻⁹ @ 400nm 0.2x10 ⁻⁹ @ 1500nm 2.0x10 ⁻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	-
Stray Light	≤0.1%; VNIR: <0.03%; SWIR<0.02%	≤0.1%; VNIR: <0.03%; SWIR<0.02%	≤0.1%; VNIR: <0.03%; SWIR<0.02%	≤0.1%; VNIR: <0.03%; SWIR<0.02%	≤0.1%; VNIR: <0.03%; SWIR<0.02%	-
Software Included	DARWin™ SP Data Acquisition	DARWin™ SP Data Acquisition	DARWin™ SP Data Acquisition	DARWin™ SP Data Acquisition	DARWin™ SP Data Acquisition	DARWin™ SP Data Acquisition
Power	12V, 33W	7.5V, 30W	7.5V, 33W	7.5V, 23W	7.5V, 15W	7.5V, 23W
Dimensions	12.4"x 8.7"x 4.4"	12.4"x 8.7"x 4.4"	12.4"x 8.7"x 4.4"	8.5" x 11" x 3.5"	8.5" x 11" x 3.5"	8.5in x 12in x 3.5in (215mm x 305mm x 89mm)
Weight	12.64 lbs	12.64 lbs	12.64 lbs	8.52 lbs	7.52 lbs	7.3lbs (3.3kg)
Interface	USB, Wireless Connection	USB, Wireless Connection	USB, Wireless Connection	USB, Wireless Connection	USB, Wireless Connection	USB Connection
Integration Time	1 - 1000 ms	1 - 1000 ms	1 - 1000 ms	1 - 1000 ms	1 - 50 ms	-
Match Radiance	VNIR: 10 x Solar; SWIR: 2 x Solar	VNIR: 10 x Solar; SWIR: 2 x Solar	VNIR: 10 x Solar; SWIR: 2 x Solar	VNIR: 10 x Solar; SWIR: 2 x Solar	VNIR: 10 x Solar; SWIR: 2 x Solar	-
Wavelength Reproducibility (nm)	0.1	0.1	0.1	0.1	0.1	0.1
Wavelength Accuracy (nm)	0.5	0.5	0.5	0.5	0.5	0.5
Automatic Exposure	✓	✓	✓	✓	✓	-
Shutter for Dark Scans	✓	✓	✓	✓	✓	-
TTL & Phototriggering for pulsed measurement	No	No	No	No	Yes	-

All Spectral Evolution Spectroradiometers come with our exclusive DARWin SP data Acquisition Software - 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.

The full range SR-3500 was used to measure outdoor solar radiance reflected off a white reflectance plate, using a 4° lens fore optic. Pull down menus allow for easy calculation of integrated energy measurement.

All Spectral Evolution Spectroradiometers are lightweight and easy to carry anywhere.

