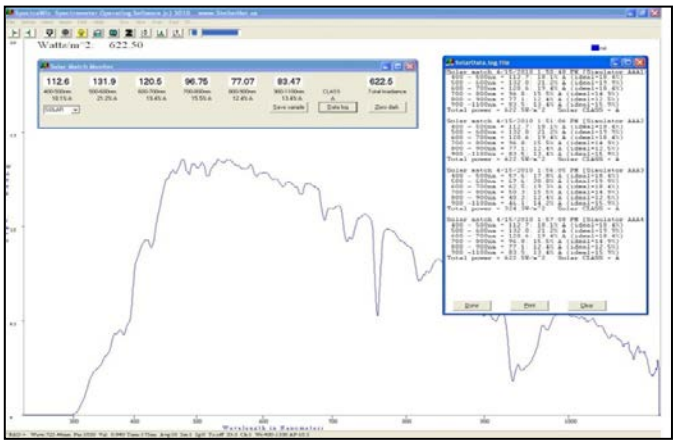
Technical Specification Sheet

MINI RUGGED SPECTROMETER SYSTEMS

A Universe of Spectrometer Systems

SOLAR-RAD Solar SpectroRadiometer Systems for UV, VIS & NIR

The SolarRad is an all in one, robust solar irradiance measurement system featuring everything needed to perform solar spectral measurements over the 300-1100nm wavelength range (200-1700nm optional). At the heart of the system is the StellarNet BLACK-Comet concave grating spectrometer featuring a UV enhanced CCD detector. The SolarRad features USB connection for plug and play connectivity and comes equipped with a fiber optic cable, cosine light receptor, and NIST-traceable irradiance calibration for absolute intensity measurements with better than 1.5nm spectral resolution.
View Webpage



The included SpectraWiz® spectroscopy software has a built in solar match application that can be used to characterize and classify solar simulators. The *Solar Match Monitor* calculates spectral irradiance from 400-500nm, 500-600nm, 600-700nm, 700-800nm, 800-900nm, 900-1000nm, 1000-1100nm and compares the results to the ideal percent for each range per IEC/JIS/ASTM. The proximity of the measured data to the ideal values results in classification of the solar simulator lamp from A through D. The SpectraWiz software also has applications built in for UV monitoring, PAR calculations, and much more. Save full spectrum to file or data log with episodic time series analysis functions.

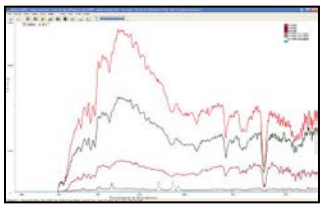
Solar-Rad – Robust, compact, and affordable solutions for NIST traceable Solar Spectral Measurements - Buy Online!

Solar Irradiance Measurements

- Absolute intensity measurements Watts/m^2
- PAR- Photosynthetically Active Radiation
- Built in Solar Match Monitor Application- IEC/JIS/ASTM
- UVa/b/c Monitor & Exposure to Dosage
- YPF & PPFD Real time value display
- User Selectable Power Spectral Density Range (PSD)
- CIELAB Color Analysis, Luminance, & other modes

Applications

- Biology & Ecology
- Solar Energy
- Grow Lights
- Environmental Studies
- Lamps & Simulators
- Photochemistry
- Lifetime Studies & UV curing



Episodic Capture of Sunset

Specifications	SolarRad	SolarRad-DSR
Spectrometer Range:	220-1100nm	200-1700nm
NIST Calibrated Range	300-1100nm (UV optional)	200-1700nm
Spectral Resolution:	<1.5nm	<1.5nm (VIS) & <3nm (NIR)
Detector:	2048 pixel CCD	2048 pixel CCD/ 512 pixel InGaAs PDA
Light Receptor:	CR2 Cosine Receptor (right angle optional)	CR2 Cosine Receptor
Wavelength Accuracy:	<1/4nm	<1/4nm
Intensity Accuracy:	+/- 5%	+/- 5%
Included Software:	SpectraWiz Suite, LabVIEW, SDK for C/VB/VBA for all Windows OS including 32 & 64-bit	

14390 Carlson Circle,
Tampa, Florida, 33626 USA **www.StellarNet.us**
Phone: +1-813-855-8687
Fax: +1-813-855-0394