



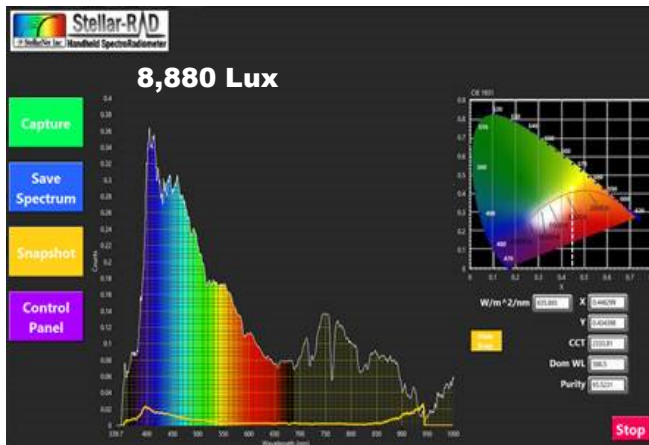
# Technical Specification Sheet

## MINI RUGGED SPECTROMETER SYSTEMS

A Universe of Spectrometer Systems

### Stellar-RAD Handheld SpectroRadiometer for Light Measurements

StellarNet announces a new rugged, turn-key solution for portable light measurement. The StellarNet Stellar-RAD SpectroRadiometer is an easy to use research grade spectrometer for field testing of lights with no additional setup required. The NIST traceable system can measure spectral Irradiance & Illuminance, Correlated Color Temperature (CCT), xy Chromaticity, PAR and more!



**Portable Light Measurement- Great for LED, OLED, Solar, displays, architectural, stage, & studio lighting**

StellarNet's handheld spectroradiometer systems put the power of a complete NIST traceable light laboratory in your hand allowing measurements of optical power, color, and spectral analysis for numerous lighting applications. All Stellar-RAD Systems are rugged in design with no moving parts making measurements in the field or on site quick and easy. Compared to other handhelds, the Stellar-RAD contains research grade optics with <1nm spectral resolution making these instruments the first choice in **reliable** testing, field demonstrations, installations, R&D and quality control. Additionally, its modular design allows for use with StellarNet's line of integrating spheres and accessories for **Total Lumen** measurement. Contact one of our application scientists to discuss how the **Stellar-RAD** can be configured to your needs.



### Stellar-RAD Handheld SpectroRadiometer

#### ➤ Handheld NIST Calibrated Light Metrology

- Reliably measure light output in Lumens/m<sup>2</sup> (Lux) Watts/m<sup>2</sup>, microwatts/cm<sup>2</sup>, Lumen or Watt flux, PAR, mcd, and Footcandles
- Real-time 1931 CIE Chromaticity diagram for xy Chromaticity, Dominant Wavelength, Purity, and Correlated Color Temperature (CCT), optional CRI and CQS
- Fully featured SpectraWiz Software Suite and Windows Interface – over 20 years of unique software features & improvements
- USB Powered - runs up to 5 hours on one Windows Tablet charge
- Perfect for lab, process, or field installation applications
- Compatible with all StellarNet Integrating Spheres & Accessories
- Options for UV (250-400nm) and NIR (900-1700nm) range SpectroRadiometry
- Add-on Radiance and Luminance Calibrations for Measurements with lens assembly attachment
- Comes with NIST Certificate of Traceability and all software and calibrations are preloaded for simple and quick measurement

Specifications	Stellar-Handheld	\$3,495
Sensor: SpectroRadiometer with SONY 2k pixel CCD	Optics: Research Grade Crossed Czerny Turner	
Spectrometer range: 350-1150nm (Optional UV Upgrade)	Wavelength Accuracy: <0.25nm	
Spectral Resolution: <1nm	Illuminance Accuracy: +/- 5%, NIST Calibrated	
Measurement Range: 0.05-400k Lux/ 0.25-1600W/m <sup>2</sup>	Color Accuracy: +/-0.001 (reference standard lamp)	
Receptor Type: Cosine corrected for Irradiance	CCT Accuracy: +/- 2%	
Integration time: 10ms to 60s	Tablet Specs: Win8	
Digitizer Resolution: 16bit	Software included: SpectraWiz Spectroscopy Suite	

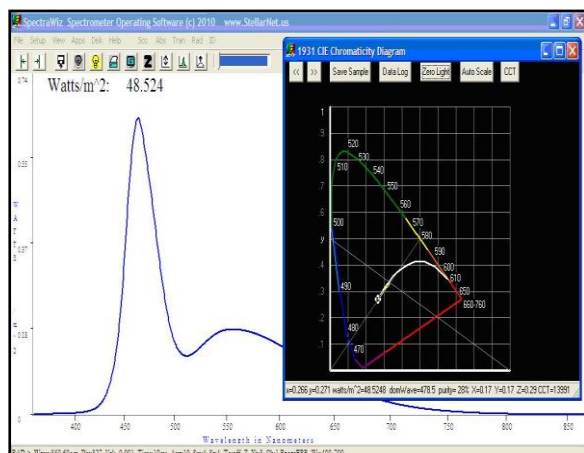
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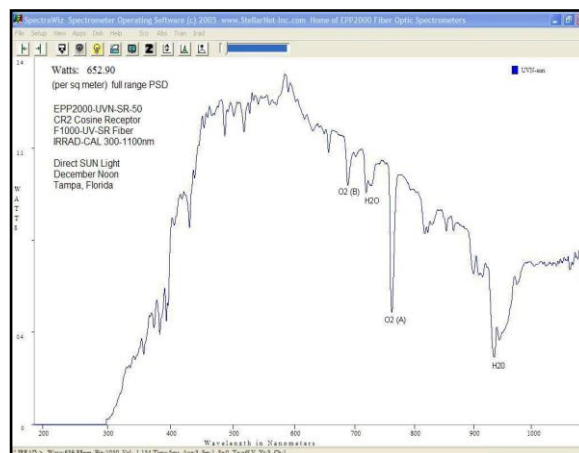
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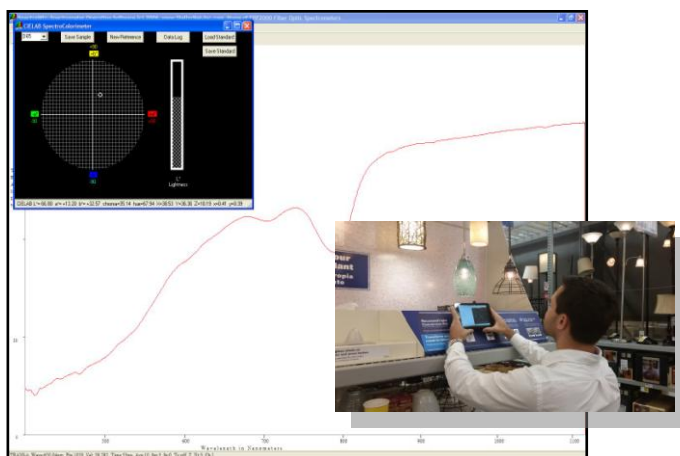
# Stellar-RAD SpectroRadiometer Applications



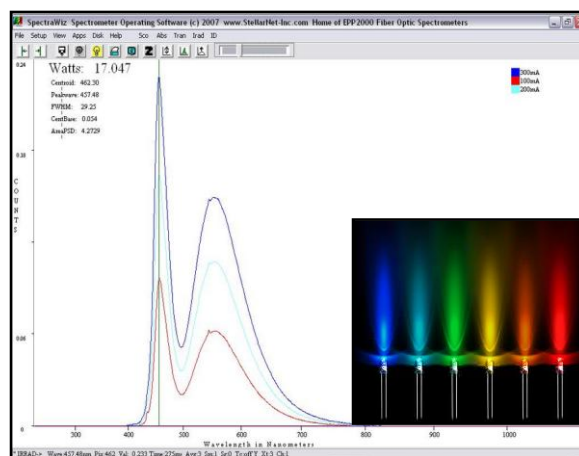
**Comparing LED Lumens, CCT, x,y chromaticity, dominant wavelength and hue for QC/QA in situ**



**Field portable Solar measurements  
Grow Lights – Solar Simulators  
Environmental Research**



**Transmission/ absorbance of filters in room lighting with CIE  
Field Installations & lamp QC**



**Overlay of different LED's in a batch: testing centroid, FWHM, area of curve, etc.**

## Additional Accessories include:

- 2", 6", & 12" integrating spheres for TOTAL LUMEN measurement
- Integrating tube for fluorescent lighting
- Lenses & Apertures for Radiance and extreme bright light measurements

