

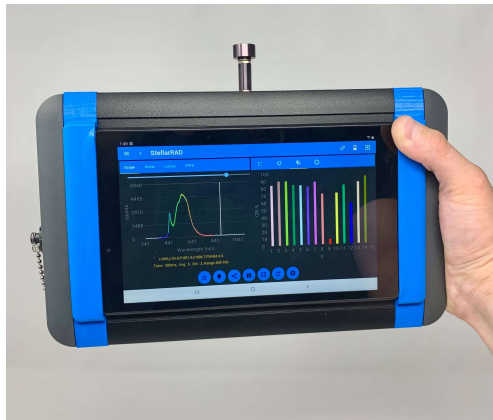
TECHNICAL SPECIFICATION SHEET

MINI RUGGED SPECTROMETER SYSTEMS

A UNIVERSE OF SPECTROMETER SYSTEMS

Stellar-RAD Handheld SpectroRadiometer for Light Measurements

The StellarRAD is a rugged, turn-key solution for portable light measurement. With a research-grade spectrometer this system is easy-to-use for lab or field testing of lights with no additional set-up required. The NIST traceable system can measure spectral irradiance, illuminance, CCT, xy chromaticity, CRI, PAR and much more!



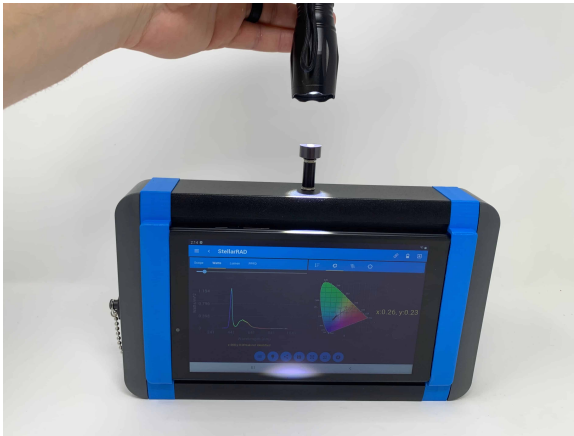
Portable Light Measurement- Great for LED, OLED, Solar, displays, architectural, stage, & studio lighting

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 StellarRAD 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 StellarRAD 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 **StellarRAD** can be configured to your needs.

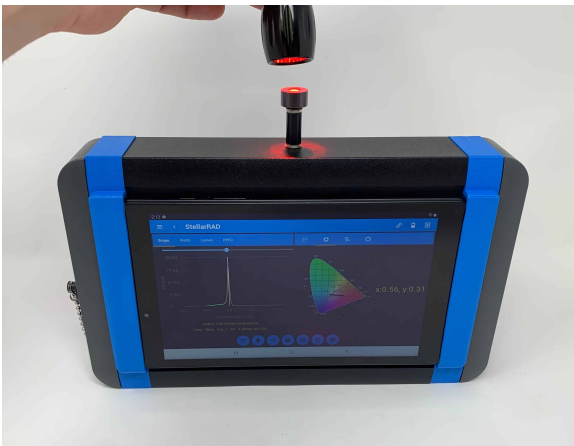
- Reliably measure light output in Lumens/m² (Lux) Watts/m², microwatts/cm², Lumen or Watt flux, PAR, mcd, and Footcandles
- 1931 CIE Chromaticity diagram for xy chromaticity, Dominant Wavelength, Purity, and Correlated Color Temperature (CCT), CRI and CQS
- Includes NIST Certificate of Traceability and delivered with all calibrations preloaded and ready to use.
- UV(250-1100nm) upgrades available; includes UVa, UVb, UVc, ratios, and power.
- Includes Solar Monitoring App with solar and grow light classification
- Add lens, aperture, and collimating tube attachments for increased functionality
- StellarRAD+Color Handheld Colorimeter upgrade now available!

Specifications		StellarRAD	
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 ²	Color Accuracy:	+/-0.001 (reference standard lamp)
Receptor Type:	Cosine corrected for Irradiance	CCT Accuracy:	+/- 2%
Integration time:	10ms to 60s	Tablet Specs:	Android
Digitizer Resolution:	16bit	Software included:	StellarRAD App

STELLAR-RAD SPECTRORADIOMETER APPLICATIONS



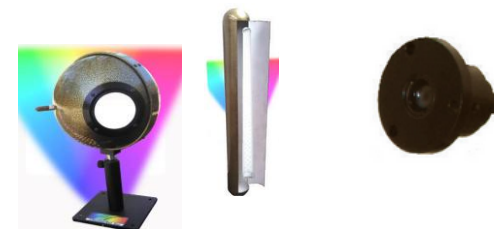
White LED Color : white light comes in a variety of flavors - warm, cool, incandescent, LEDs. The StellarRAD automatically calculates CCT and CRI. Easily distinguish and compare white LEDs.



LED Quality Control: With so many LEDs being manufactured around the world you need a reliable instrument to test your incoming products. Checking the power and wavelength accuracy of specification and/or consistency is important!

Additional Accessories include:

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



The intuitive StellarRAD software interface allows system control of advanced light measurement parameters such as spectral irradiance, illuminance, and PAR.

Capture snapshots or continuous mode spectra.

Easily save and export your data and full spectral graph as an .IRR text data file, screenshot, and/or PDF report with all parameters listed.



Any Light Emission!

Any type of light emission can be measured by pointing the StellarRAD's cosine receptor toward the light source, setting the best exposure time and system settings, and pressing capture. Even a candle flame!