STS-RAD Microspectrometer

Spectral Irradiance in a Compact Footprint

STS-RAD is a radiometrically calibrated spectrometer with direct-attach cosine corrector to collect signal from 180° FOV. This small-footprint instrument (40 mm x 42 mm x 24 mm) is a convenient option for applications including solar irradiance measurement and characterization of lasers, LEDs and emissive displays. Models are available for the UV (210-600 nm) and Visible (350-800 nm) wavelength ranges.

ASK APPLIED SPECTRAL KNOWLEDGE

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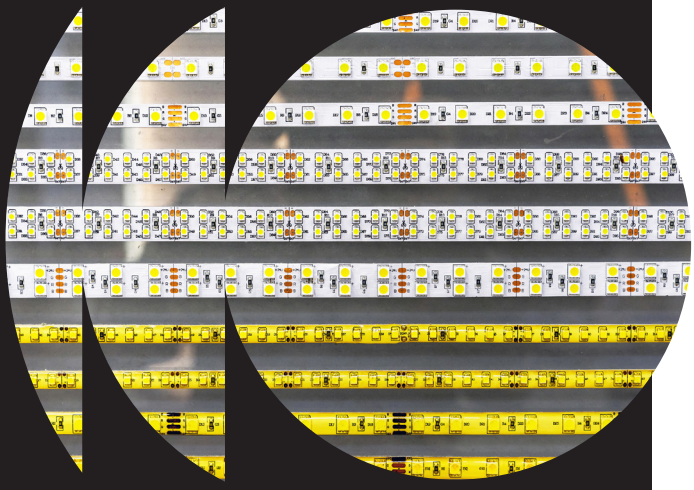

At a Glance:

Spectrometer options: UV (210-600 nm) and Visible (350-800 nm)
Detector: CMOS
Entrance slit: 25 µm (UV), 50 µm (VIS)
Integration time: 10 µs-10 s
Optical resolution: 3.0 nm (FWHM)
SNR: >1500: (full signal)
Dynamic range: 4600:1
Sampling: direct-attach cosine corrector (optical diffuser)

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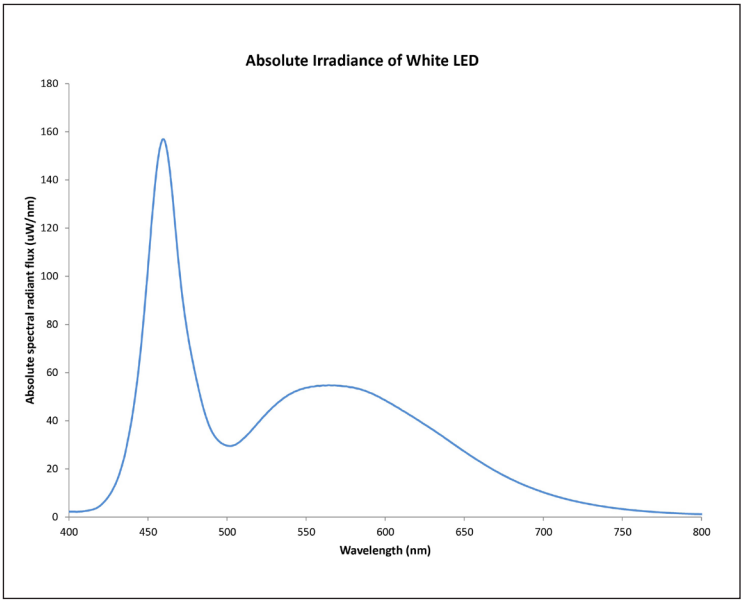
Strong Performance, Reliable Results

The STS-RAD is small, but its performance is comparable to spectrometers more than twice its size. Its optical resolution (3.0 nm FWHM) allows for highly accurate light measurement, and the data recorded is consistent and reliable every time. You can trust STS-RAD results whether testing at low or high lux levels, and under various conditions.



The spectral output of a white LED measured using an STS-RAD micro-spectrometer

STS-RAD Applications

STS-RAD spectrometers are ideal for applications ranging from LED and laser characterization to upwelling/downwelling solar radiation measurements. Setups can be easily integrated into your handheld device or configured as part of a process line for quality control measurements.

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