



STS-RAD MICROSPECTROMETER

Spectral Irradiance in a Tiny Footprint

The STS-RAD Microspectrometer offers powerful performance in a small footprint. At just 50 mm square and weighing ~60 g (2 oz.), the STS delivers optical resolution, sensitivity and stability comparable to much larger, more expensive spectrometers. Its rugged design and great unit-to-unit reproducibility make STS especially attractive for integration into devices and other applications where a small footprint is required. Whether you are performing low-concentration absorbance measurements or high intensity laser characterization, the STS-RAD delivers the performance you need.



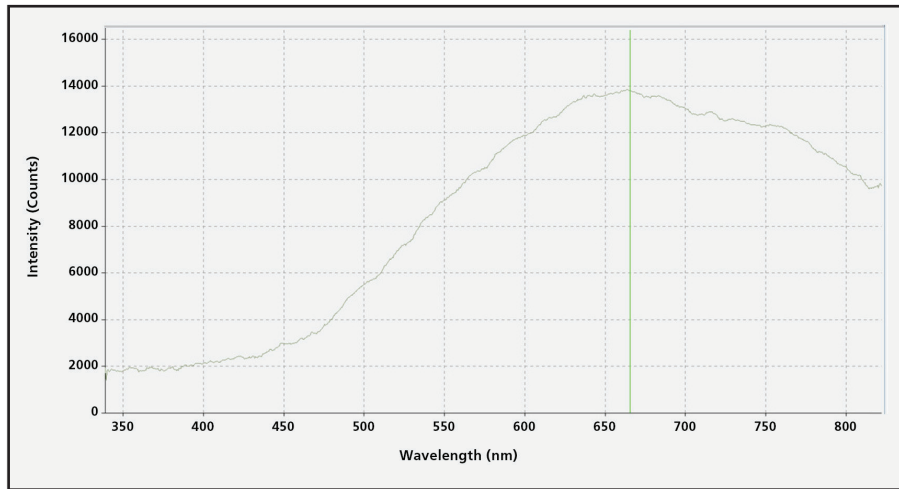
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Small Size. Big Performance.

The STS-RAD is small, but its performance is comparable to spectrometers more than twice its size. Using a unique optical design and a CMOS array detector, the STS-RAD delivers a high signal-to-noise ratio (>1500:1) and a wide dynamic range (4600:1), making it ideal for measurements from low-concentration absorption to high intensity light and laser characterization. Reliability was designed into the STS-RAD, where a high thermal stability and low baseline drift ensure your data stays accurate, even under changing environmental conditions.



Relative intensity measurement of quartz tungsten halogen transfer standard lamp

Configuration and Integration

By selecting the appropriate entrance slit for your STS-rad the resolution of the measured spectrum can be optimized for your application. Choose a narrow slit for light-rich applications where resolution is most important. For low-light applications, select a larger entrance slit allowing more light into the spectrometer.

The STS-RAD easily integrates into your small device or sits comfortably next to your process line for quality control measurements. With several software control options, including drivers that allow direct control of the spectrometer, the STS works with your existing systems to help you get the valuable answers you need.

The STS is also available in Visible (350-800 nm), UV (190-650 nm) and NIR (650-1100 nm) versions. Ocean Optics offers a complete line of light sources and sampling accessories to complement your STS spectrometer. Contact us today to configure the best system for your application.

Specifications

Spectral range:	350-800 nm
Dimensions:	40 mm x 42 mm x 24 mm
Weight:	60 g
Signal-to-noise:	>1500:1
Dynamic range:	4600:1

Photometric repeatability (absorption)*

Absorption	Photometric Repeatability
0.005 Abs	± 0.0001 Abs.
0.5 Abs	± 0.0002 Abs.
1.0 Abs	± 0.0005 Abs.
1.5 Abs	± 0.0008 Abs.

Wavelength accuracy**: ± 0.13 nm

*Photometric repeatability measured at 260 nm. The standard deviation of 10 measurements is reported.

**Wavelength accuracy measured at 546.08 nm using the HG-1 Mercury Argon Calibration Source.



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