

Ocean SR Series: SR2 Spectrometer



High-speed Spectral Acquisition with Advanced Signal-to-Noise Performance

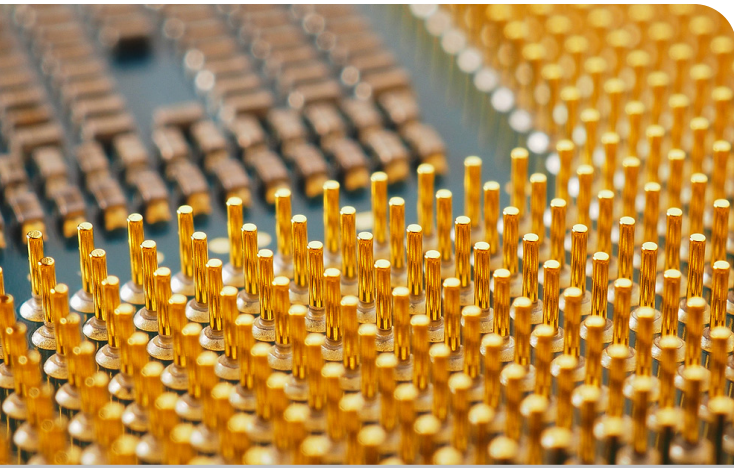
The **SR2** spectrometer is a versatile spectrometer that provides high-speed spectral acquisition and delivers best-in-class signal-to-noise ratio (SNR) performance. The SR2 spectrometer is ideally suited for applications including laser characterization, plasma monitoring, and absorbance measurements that benefit from the

instrument's high SNR performance (25800:1 maximum SNR per second w/High Speed Averaging Mode). The SR2's combination of speed (integration times to 1 μ s) and SNR provides application versatility without the trade-offs typical of comparable spectrometers.



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At a Glance

Wavelength range: ~190-1050 nm
(configurations available within this range)

Optical resolution (w/25 μm slit): 0.43-2.0 nm
(FWHM) (configuration-dependent)

Integration time: 1 μs -2 s

Dynamic range: 3400:1 (single scan)

**Signal to Noise Ratio (max. per second w/
High Speed Averaging Mode):** 25800:1

Signal to Noise Ratio (single scan@ 10 ms):
380:1

Thermal wavelength drift: 0.02 nm/ $^{\circ}\text{C}$

Interfaces: USB Type-C; SMA; 16-pin
Samtec TM; RS-232

Temperature (storage): -30 $^{\circ}\text{C}$ to 70 $^{\circ}\text{C}$

Temperature (operation): 0 $^{\circ}\text{C}$ to 55 $^{\circ}\text{C}$

Dimensions: 89.0 mm x 63.5 mm x 31.3 mm

Weight: 275 g

SR2 Offers Great Versatility

The SR2 is highly configurable and is produced using industry-leading manufacturing techniques, ensuring excellent thermal stability and low unit-to-unit variation. Preconfigured models are available with entrance slits in widths of 5 μm to 200 μm , providing users with a range of optical resolution (FWHM) and signal-throughput options to meet various requirements. The SR2 spectrometer is compact and remarkably versatile, and is compatible with Ocean Optics light sources, accessories and OceanView software, allowing users to optimize setups for different applications.

Software Developers Kit Adds Value

Each SR2 spectrometer comes with OceanDirect, a powerful, cross-platform Software Developers Kit (SDK) with an Application Programming Interface (API). With its library of functions, OceanDirect provides users the capability to optimize spectrometer performance and access critical data for analysis.

Also, SNR can be dramatically enhanced using the High Speed Averaging Mode available in OceanDirect. Visit our website for details.

For more information on the SR2, please contact an Ocean Optics Application Scientist today.