

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, measurements

that benefit from the instrument's high SNR (380:1) performance. 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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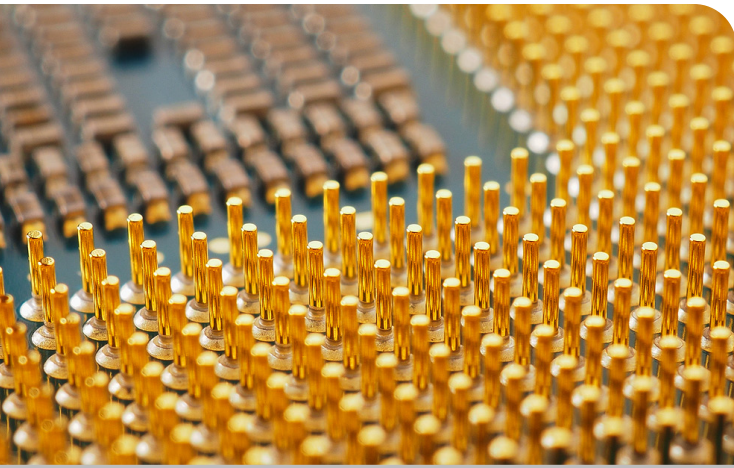
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OceanOptics



At a Glance

Wavelength Range: ~185 - 1100 nm

Optical Resolution (w/25 μm slit): 0.14-1.20 nm

Dynamic Range: 3400:1

Integration Time: 1 μs - 2 s

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

Signal-to-Noise Ratio (single scan): 380:1

Scan Rate: 630 scans / second

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

Interfaces: USB, RS-232, Ethernet

Connector: USB Type-C, Samtec TFM-108-02-L-DH, RJ45

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

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

A/D Resolution: 16

High Speed Average Mode: Yes

Dimensions: 88.1 mm x 63.5 mm x 31.4 mm

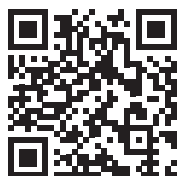
Weight: 254 g

SR2 Offers Great Versatility

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.