Ocean SR Series: SR2 Spectrometer

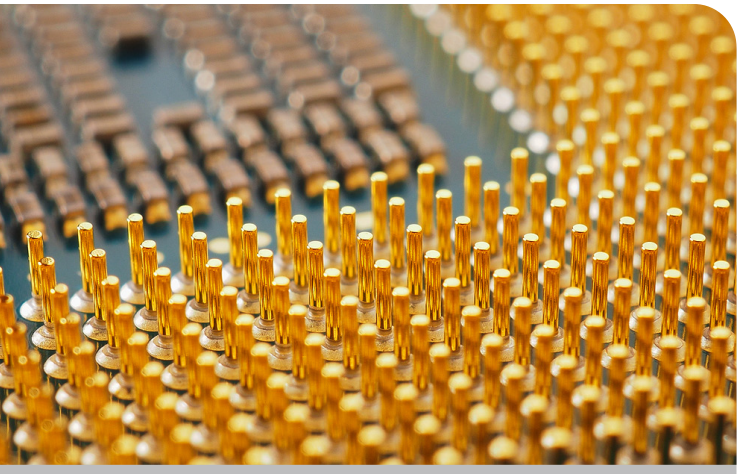
High-speed Spectral Acquisition with Advanced Signal-to-Noise Performance

The SR2 spectrometer is a versatile spectrometer that provides highspeed 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 µs) and SNR provides application versatility without the trade-offs typical of comparable spectrometers.

US +1 727-733-2447
EUROPE +31 26-3190500
ASIA +86 21-6295-6600

info@oceanoptics.com • **www.oceanoptics.com**

OceanOptics



At a Glance

Wavelength range: ~185-1100 nm (configurations available within this range)

Optical resolution (w/25 µm slit): 0.14-1.20 nm (FWHM) (configuration-dependent)

Integration time: 1 µs-2 s

Dynamic range: 3400:1

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

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

Thermal wavelength drift: 0.02 nm/°C

Interfaces: USB, RS-232, Ethernet

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

Temperature (storage): -30 °C to 70 °C

Temperature (operation): 0 °C to 55 °C

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.

10102025