



Ocean SR2 Spectrometer

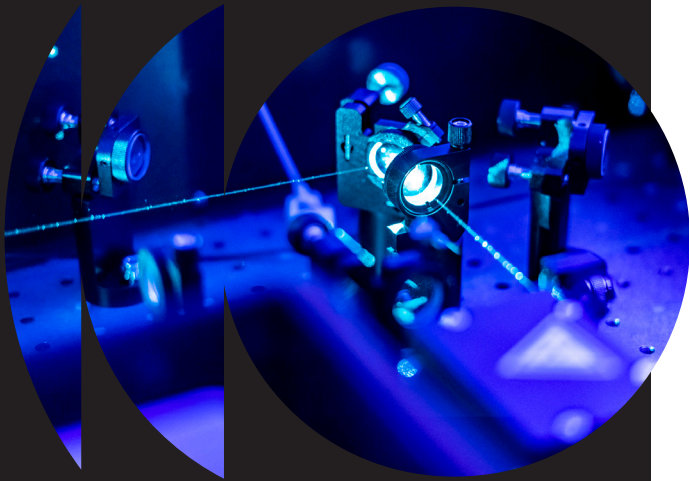


High-speed Spectral Acquisition with Advanced Signal-to-Noise Performance

The Ocean SR2 spectrometer is a versatile spectrometer that provides high-speed spectral acquisition and delivers best-in-class signal-to-noise ratio (SNR) performance. The Ocean SR2 spectrometer is ideally suited for applications including laser characterization, plasma monitoring, and absorbance measurements that benefit from the instrument's high SNR (380:1) performance. Ocean SR2's combination of speed (integration times to 1 μ s) and SNR provides application versatility without the trade-offs typical of comparable spectrometers.

**APPLIED
SPECTRAL
KNOWLEDGE**

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At a Glance

Detector: Proprietary 2098-pixel CCD array
Dimensions: 89.0 mm x 63.5 mm x 31.3 mm (w/o ports)
Weight: 275 g
Wavelength range: 185-1100 nm (configurations available within this range)
Configurations: UV, Visible, NIR, UV-Vis and Vis-NIR
Optical resolution (w/25 μm slit): 1.08 nm (FWHM)
Signal-to-noise ratio: 380:1 (single scan)
Dynamic range: 3400:1 (single scan)
Integration time: 1 μs -1.9 s
Scan rate: 480 Hz (non-buffered)
Thermal stability: 0.05 pixels/ $^{\circ}\text{C}$
A/D resolution: 16-bit
Interfaces: GPIO-4; power (5VDC); Lamp-enable; Single and Continuous strobe
Connectors: USB Type-C; SMA 905; 16-pin Samtec TM

Ocean SR2 Offers Great Versatility

Ocean 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 Ocean SR2 spectrometer is compact and remarkably versatile, and is compatible with Ocean Insight light sources, accessories and OceanView software, allowing users to optimize setups for different applications.

Software Developers Kit Adds Value

Each Ocean 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 Ocean SR2, please contact an Ocean Insight Application Scientist today.