Ocean SR Series: SR6 Spectrometer

Great Versatility, High Sensitivity

The **SR6** is a compact, UV-Vis-NIR spectrometer anchored by a robust CCD-array detector and powerful electronics to provide high spectral response, high optical resolution and excellent thermal wavelength stability in a single package. The SR6 is an ideal choice for applications ranging from lab settings with controlled environments to industrial locations where temperature fluctuations can affect instrument performance.

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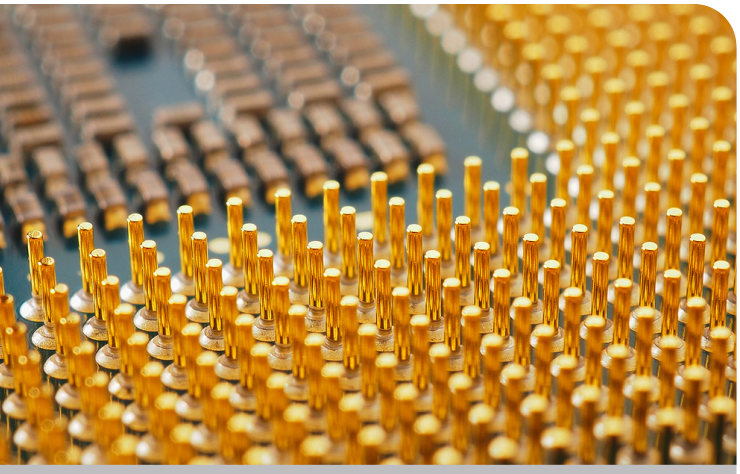
OceanOptics
PART OF OCEAN INSIGHT



At a Glance

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

Optical resolution (w/25 µm slit): 0.50-2.0 nm (FWHM) (configuration-dependent)

Integration time: 7.2 ms-5 s

Dynamic range: 12000:1 (single scan)

Signal to Noise Ratio (max. per second w/ High Speed Averaging Mode): 3500:1

Signal to Noise Ratio (single scan @ 10 ms): 400:1

Thermal wavelength drift: 0.02 nm/° C

Interfaces: USB Type-C; SMA 905; 16-pin Samtec TM; RS-232

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

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

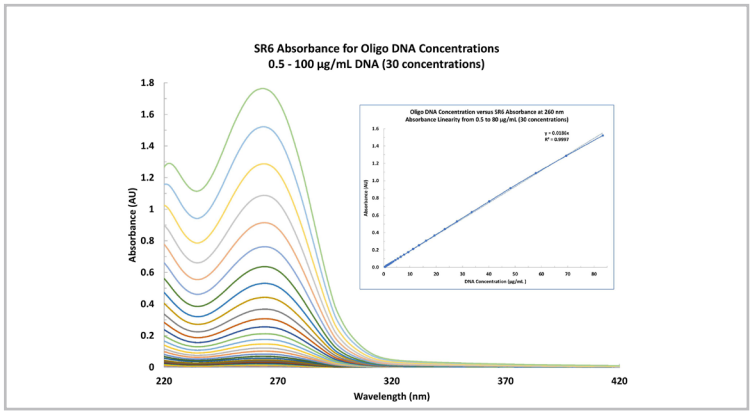
Dimensions: 89.0 mm x 63.5 mm x 31.3 mm

Weight: 275 g

Versatility of the SR6 Spectrometer

The SR6 is a multipurpose spectrometer, valued as a reliable setup for the lab or as a customized system for high-volume industrial and OEM applications. The spectrometer comes in models covering wavelength ranges within ~185-1100 nm, offers entrance slit options in widths from 5 µm to 200 µm, and couples to light sources, optical fibers and sampling optics to optimize configurations for various applications.

The SR6 spectrometers operate with OceanView spectroscopy software and include OceanDirect, a powerful, cross-platform Software Developers Kit with an Application Programming Interface. With its library of functions, OceanDirect allows users to write custom software solutions for their spectrometer, optimize spectrometer performance and access critical data for analysis. OceanDirect also enables High Speed Averaging Mode, a hardware-accelerated signal averaging tool that markedly enhances spectrometer signal to noise ratio (SNR) per unit time. This promotes higher quality spectra and more accurate results.



The SR6 comes in multiple UV models. Here's an example showing absorbance of oligo DNA concentrations.

Additional Functionality with the SR6

The SR6 has trigger mode options that enable actions such as synchronizing spectral acquisition to an external event (e.g., pulsing of a lamp) or timing spectral acquisition to meet certain sampling conditions. Triggering provides accurate timing and synchronization between the SR6 spectrometer and other devices, adding another layer of versatility to your spectral measurements.

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