

Ocean SR6 Spectrometer



Great Versatility, High Sensitivity

The Ocean SR6 is a compact, UV-Vis-NIR spectrometer anchored by a 3648-element CCD-array detector and powerful electronics to provide high spectral response, high optical resolution and excellent thermal wavelength stability in a single package. Ocean SR6 is an ideal choice

for applications ranging from lab settings with controlled environments to industrial locations where temperature fluctuations can affect instrument performance.

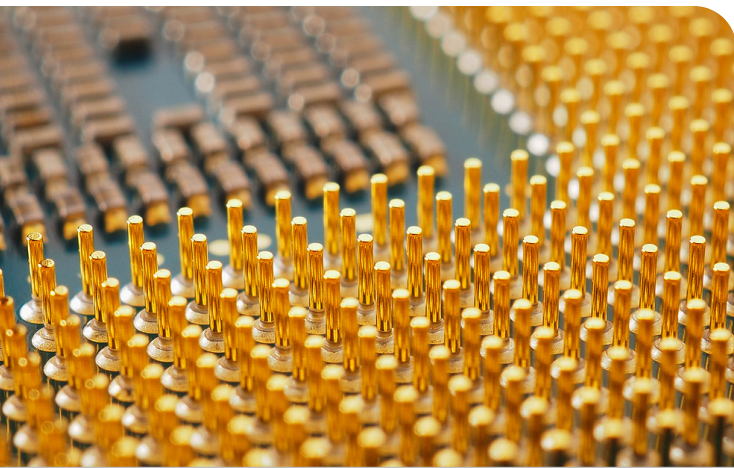
US +1 727-733-2447

EUROPE +31 26-3190500

ASIA +86 21-6295-6600

info@oceanoptics.com • www.oceanoptics.com

Ocean SR6



At a Glance

Dimensions: 88.1 mm x 63.5 mm x 31.4 mm

Weight: 254 g

Wavelength range: ~190-1100 nm
(configuration-dependent)

Optical resolution (w/25 μm slit):
1.36 nm (FWHM)

Signal-to-noise ratio: 3500:1 (per second,
with High Speed Averaging Mode)

Dynamic range: 12000:1 (single scan)

Integration time (min.): 7.2 ms-5 s

Stray light: 1.7 AU (w/UV-visible model)

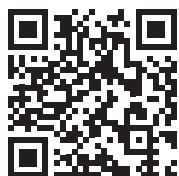
Scan rate (w/o High Speed Averaging Mode):
73 scans/second

Thermal stability: 0.03 pixels/ $^{\circ}\text{C}$

A/D resolution: 16-bit

High Speed Average Mode: Yes

Connector: USB Type-C; TFM-108-02-L-DH

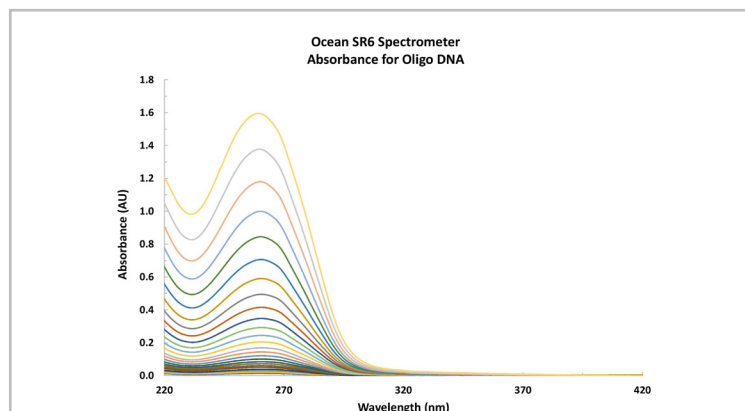


For more information on the Ocean SR6, please contact an Ocean Optics Application Scientist today.

Versatility of the Ocean SR6s

Ocean SR6 is a multipurpose spectrometer, valued as both a one-off 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 ~190-1100 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.

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

Additional Functionality with Ocean SR6

Ocean 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 Ocean SR6 spectrometer and other devices, adding another layer of versatility to your spectral measurements.