

Ocean HR6 Spectrometer



High Sensitivity with Great Resolution

The Ocean HR6 is a high sensitivity, high resolution spectrometer with excellent signal to noise ratio (SNR) performance for applications including absorbance of proteins and emission of broadband sources. Ocean HR6 is compact, robust and offers excellent thermal wavelength stability to ensure accurate results, even

in changing ambient conditions. Like other HR series spectrometers, Ocean HR6 models cover UV-Vis, Vis-NIR and extended-range options within the wavelength range from ~190-1100 nm, with a choice of slit width sizes to help users manage throughput and optical resolution.

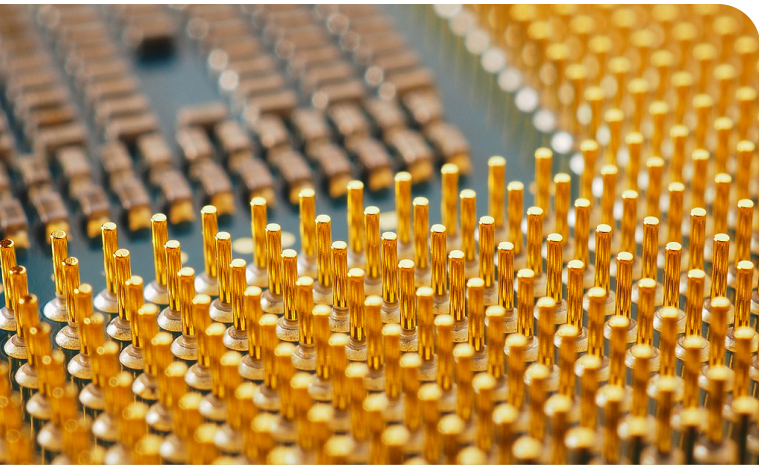
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Ocean HR6



At a Glance

Dimensions:

149 mm (w) x 106 mm (d) x 48 mm (h)

Weight: 931 g

Wavelength range: UV-Vis, Vis-NIR
and extended range versions

Optical resolution (w/25 μm slit):
<1.0 nm (FWHM) (depending on configuration)

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

Dynamic range: 15000:1 (single scan)

Integration time: 7.2 ms-5 s

Thermal stability (wavelength drift)*:
0.05 pixels/ $^{\circ}\text{C}$

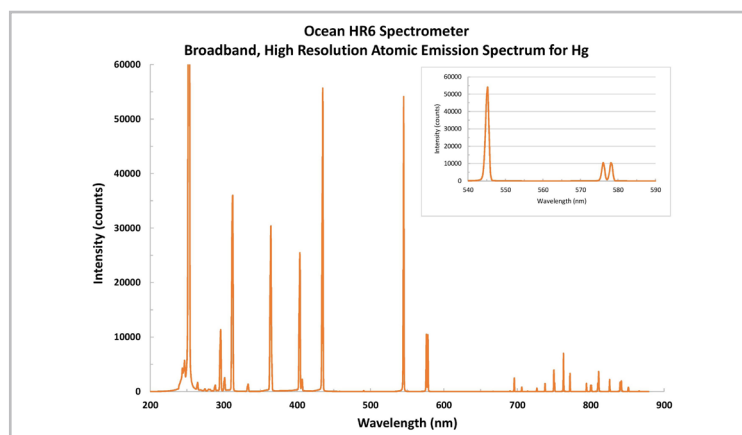
Interchangeable slits: Yes (5, 10, 25, 50, 100,
200 μm options)

Connectors: USB-C; SMA 905; 16-pin Samtec
TFM-108-02-L-DH accessory connector

* Achieved with a UV-visible HR6 spectrometer
model.

Ocean HR6 Anchors Your Spectral Setup

The Ocean HR6 spectrometer couples with SMA 905-terminated light sources, optical fibers and sampling accessories, allowing users to optimize setups for each application. If your measurements require sub-nanometer resolution of spectral features, Ocean HR6 is an excellent choice. For example, Ocean HR6 demonstrates high absorbance linearity when measuring biomolecules, which allows users to accurately measure samples over a wide range of concentration levels. It also eliminates the need for sample dilution steps that run the risk of introducing errors into the measurement process, promotes higher quality spectra and more accurate results.



The Ocean HR6 provides broadband, high resolution performance for emission and other measurements.

Software Developers Kit Adds Value

Each Ocean HR6 spectrometer comes with OceanDirect, a powerful, cross-platform Software Developers Kit with an Application Programming Interface. OceanDirect allows users to optimize spectrometer performance, access critical data for analysis, and enable High Speed Averaging Mode, a function available with our newer-model spectrometers that dramatically improves spectrometer SNR performance.



For more information on the Ocean HR6, please contact
an Ocean Optics Application Scientist today.