

# Ocean ST Microspectrometer



## Enhanced Spectral Performance in a Compact Footprint

The **ST** is a powerful microspectrometer that provides excellent UV response, high-speed spectral acquisition, and high signal to noise ratio performance in an ultra-compact footprint. Despite its small size and light weight, Ocean ST delivers full spectral analysis at a performance

level comparable to larger and more expensive spectrometers. This powerful microspectrometer is ideal for both everyday lab use and integration into other devices and setups where space is limited. Applications range from DNA absorbance to color characterization.

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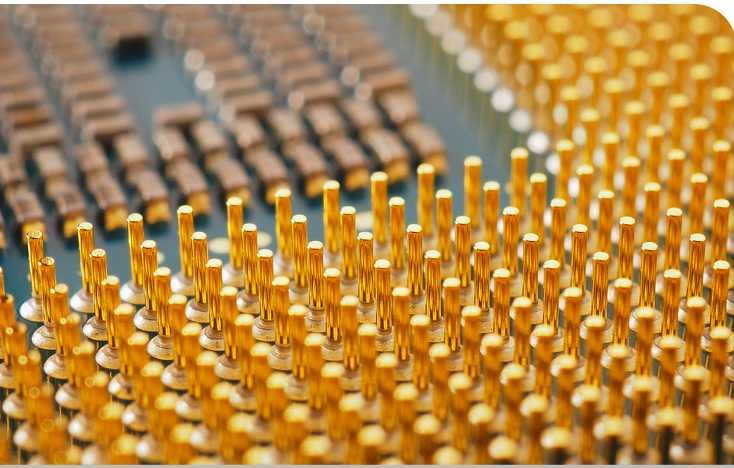
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**OceanOptics**



## At a Glance

**Wavelength range:** 185-650 nm (UV-Vis); 350-810 nm (Vis-NIR); 645-1085 nm (NIR)

**Optical resolution (w/25  $\mu\text{m}$  slit):** 2.2 nm (FWHM) (depending on configuration)

**Signal to noise ratio:** 190:1 (single scan @ 10 ms); 2250:1 (1 second average, non-buffered)

**Integration time:** 3.8 ms-6 s

**Dynamic range:** 1000:1 (single scan)

**Stray light (AU):** 2.0

**Scan rate:** 160 Hz (non-buffered)

**A/D resolution:** 14-bit

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

**Interfaces:** USB, RS-232

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

**Dimensions:** : 42.1 mm (w) x 40.3 mm (d) x 26.6 mm (h)

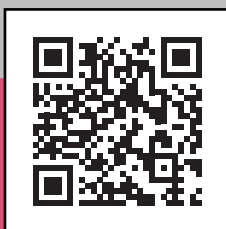
**Weight:** 70.4 g

Ocean ST microspectrometer options are available for UV, visible and shortwave NIR wavelength coverage, offering great application flexibility. Also, the replaceable slit design allows users to optimize the optical resolution and throughput of their setup. Choose a narrow slit width for light-rich applications where resolution is most important. For low-light applications, select a wider entrance slit to allow more light into the spectrometer.

The Ocean ST microspectrometer is compatible with Ocean Optics light sources, accessories and OceanView software, allowing users to mix and match components for different applications. Its rugged design, thermal stability and unit-to-unit reproducibility make the Ocean ST microspectrometer an appealing choice for embedding into other instrumentation, inline process operations, and at-line quality control stations.

## Software Developers Kit Adds Value

Each Ocean ST microspectrometer comes with OceanDirect, a powerful, cross-platform Software Developers Kit (SDK) with an Application Programming Interface (API). With its library of functions, OceanDirect makes it possible for users to optimize spectrometer performance and access critical data for analysis.



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