



STS-UV Microspectrometer

UV Spectral Analysis in a Tiny Footprint

The STS-UV Microspectrometer offers powerful performance in a small footprint. At just 50 mm square and weighing ~60 g (2 oz.), the STS delivers optical resolution, sensitivity and stability comparable to much larger, more expensive spectrometers. Its rugged design and great unit-to-unit reproducibility make STS especially attractive for integration into devices and other applications where a small footprint is required. Whether you are performing low-concentration absorbance measurements or high intensity laser characterization, the STS-UV delivers the performance you need.





At a Glance

Size: 50 x 50 mm

Weight: 60 g

Wavelength range: 190-650 nm

Signal-to-noise ratio: >1500:1

Dynamic range: 4600:1

Photometric repeatability (absorption)*:

Absorption	Photometric Repeatability
0.005 Abs	± 0.0001 Abs.
0.5 Abs	± 0.0002 Abs.
1.0 Abs	± 0.0005 Abs.
1.5 Abs	± 0.0008 Abs.

Wavelength accuracy**: ± 0.13nm

*Photometric repeatability measured at 260 nm. The standard deviation of 10 individual measurements is reported.

**Wavelength accuracy measured at 546.08 nm using the HG-1 Mercury Argon Calibration Source.

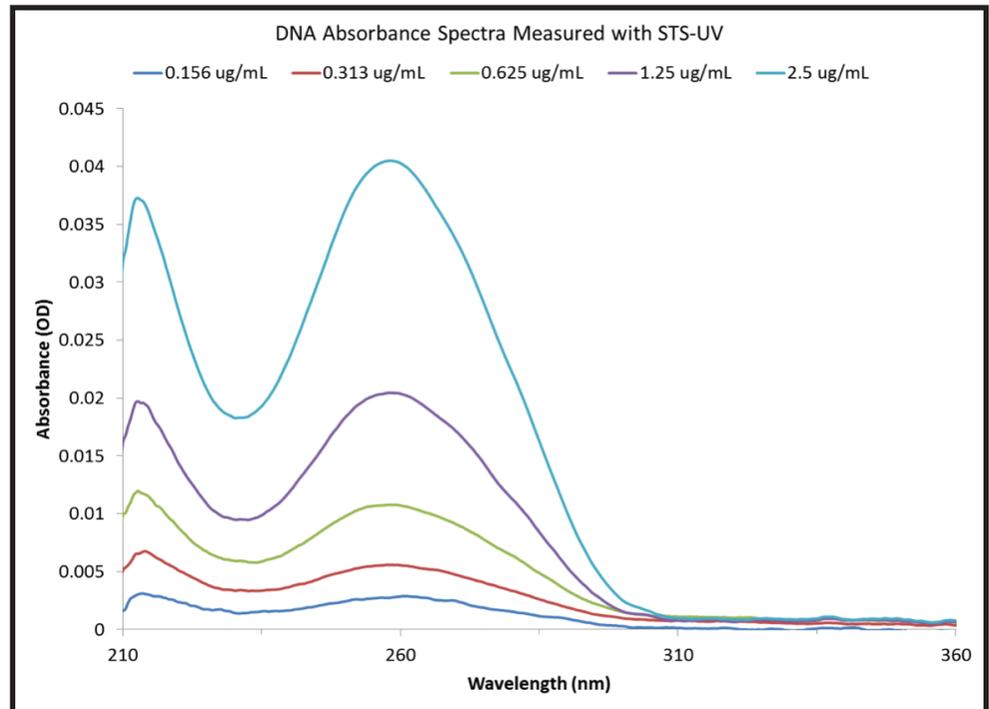


Learn more online at www.oceanoem.com

Contact an Ocean Optics Application Scientist for details and pricing

Small Size. Big Performance.

The STS-UV is small, but its performance is comparable to spectrometers more than twice its size. Using a unique optical design and a CMOS array detector, the STS-UV delivers a high signal-to-noise ratio (>1500:1) and a wide dynamic range (4600:1), making it ideal for measurements from low-concentration absorption to high intensity light and laser characterization. Reliability was designed into the STS-UV, where a high thermal stability and low baseline drift ensure your data stays accurate, even under changing environmental conditions.



This spectrum shows the performance of the STS-UV for absorption measurements of low concentration DNA solutions.

Configuration and Integration

By selecting the appropriate entrance slit for your STS-UV the resolution of the measured spectrum can be optimized for your application. Choose a narrow slit for light-rich applications where resolution is most important. For low-light applications, select a larger entrance slit allowing more light into the spectrometer.

The STS-UV easily integrates into your small device or sits comfortably next to your process line for quality control measurements. With several software control options, including drivers that allow direct control of the spectrometer, the STS works with your existing systems to help you get the valuable answers you need.

Ocean Optics offers a complete line of light sources and sampling accessories to complement the STS-UV. Contact an OEM Sales Engineer today to get started.



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