



# STS Series Microspectrometers



## Powerful Spectral Analysis in a Tiny Footprint

STS Microspectrometers are remarkably compact and versatile. At less than 50 mm square, 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 the STS series especially attractive for integration into setups and applications where a small footprint is required. Whether you are performing low-concentration absorbance measurements or high intensity laser characterization, STS microspectrometers deliver the performance you need.



## At a Glance:

**Models:** UV (190-650 nm), Vis (350-800 nm) and NIR (650-1100 nm)

**Detector:** 1024-pixel linear CMOS

**Size:** 40 mm x 42 mm x 24 mm

**Weight:** ~60 g

**Integration time:** 10  $\mu$ s-10 s

**Optical resolution:** 1.5 nm-6.0 nm (FWHM), depending on configuration

**SNR:** >1500:1 (full signal)

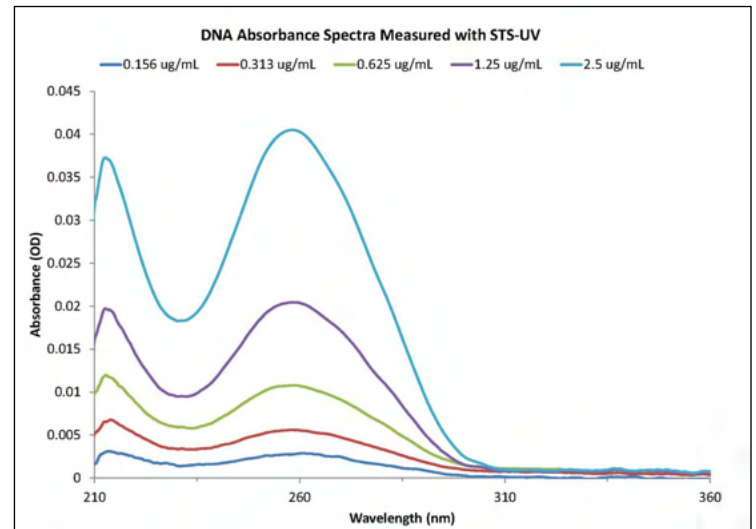
**Dynamic range:** 4600:1 (single acquisition)

**Stray light:** <0.25% at 450 nm



## Small Size. Big Performance.

With a unique optical design and sensitive CMOS array detector, the STS series 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. With three models to choose from -- UV (190-650 nm), Visible (350-800 nm) and NIR (650-1100 nm) -- STS users enjoy an instrument tailored to their application needs.



## Configuration and Integration

By selecting the appropriate entrance slit for your STS microspectrometer, you can optimize the optical resolution of the setup 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 to allow more light into the spectrometer.

STS microspectrometers easily integrate into your small device or sit comfortably next to your process line for quality control measurements. With several software control options, including drivers that allow direct control of the spectrometer, you can successfully adapt and control your STS setup to get the valuable answers you need.

In addition to UV, Vis and NIR models, STS is available as a radiometrically calibrated system (STS-RAD) with direct-attach cosine corrector.