



## Sub-Nanosecond

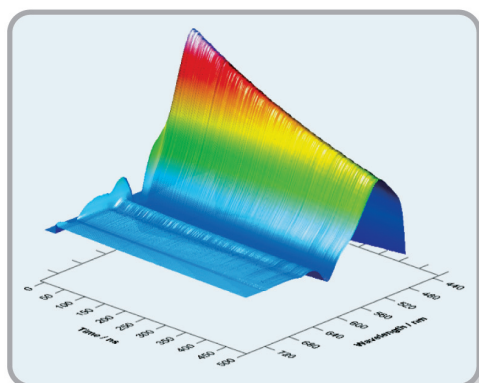
### Transient Absorption Spectrometer

**EOS** is a broadband pump-probe sub-nanosecond transient absorption spectrometer with an extended time window. Its patented design utilizes a photonic crystal fiber for probe light generation. Researchers using femtosecond transient absorption for studying ultrafast kinetics of photoinduced processes can now extend the time window of investigation beyond several nanoseconds.

**EOS**, with its ~500 ps time resolution and the electronically controlled pump-probe delay is a perfect solution, and in combination with **HELIOS** provides continuous temporal coverage from femto- to milliseconds and beyond.

## Specifications . . .

- **Probe Spectral Range: UV-NIR (350-1600 nm)**
- **Spectral Resolution: VIS – 1.5 nm, NIR – 3.5 nm**
- **Time Resolution – 500 ps**
- **Time Window – 400 Microseconds (With 1 kHz Lasers)**
- **Data Format: 3-D Wavelength-Time-Absorbance Data Matrix In A Form of An ASCII CSV File, Which Can Be Easily Processed With Surface Xplorer Or Third Party Software**
- **Detectors: Fiber Coupled Multichannel High Speed Spectrometers With kHz Scan Rates**
- **Software: EOS 2.x LabView Based Software For Instrument Control And Data Acquisition – The Software Allows For Full Experiment Automation And Has Two Levels of User Access**
- **Dimensions: W-24" x L-36" x H-10" (W-610 x L-915 x H-250mm)**



*We have been extremely happy with the EOS from Ultrafast Systems. For groups already equipped with a femtosecond amplified Ti:sapphire laser system, EOS offers a cost-effective, elegant, and high S/N solution for measuring transient spectra and kinetics beyond 1 ns.*

*The ability to study systems from femtoseconds to tens of microseconds (and longer) is important for many problems, including charge separation and recombination dynamics in photovoltaic and photocatalytic nanomaterials.*

*Dr. Tim Lian  
Emory University*

## Features

User Friendly Software

Broad Probe Spectral Range (UV-NIR)

Time Resolution – 500 ps

Multi kHz Data Acquisition Rates

Fiber Coupled High-Speed Multichannel Detectors

Time Window - 400 Microseconds (With 1 kHz Lasers)

Can Be Fully Integrated With **HELIOS**