

I can certainly say that the attention to detail paid when developing the HELIOS instrument has paid off in terms of convenience and reliability.

Since the moment we've had the HELIOS installed it has become one of the most used pieces of equipment in our labs and has certainly rewarded the investment we've put in.

Dr. Joel Hales

*Senior Research Scientist
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Features

User Friendly Software

Broad Probe Spectral Range (UV-NIR)

Multi kHz Data Acquisition Rates

Fiber Coupled High-Speed
Multichannel Detectors

All Reflective Continuum Generator

Minimized Chirp of The Probe Pulse

Time Window - Up To 8 ns

Probe Reference Option

Reflection Mode Option

Can Be Fully Integrated
With EOS



Femtosecond

Transient Absorption Spectrometer

HELIOS is a broadband pump-probe femtosecond transient absorption spectrometer. A complete turnkey system, **HELIOS** comprises an optical unit and a PC containing the necessary data acquisition hardware and software (Helios 4.x). **HELIOS** is designed to work with an amplified Ti:Sapphire femtosecond laser. **HELIOS** comes with advanced data analysis software, **SURFACE XPLORER**, capable of various types of data processing including Global Analysis.

With its broad spectral coverage from UV to NIR and a time window of up to 8 ns, **HELIOS** will produce superb spectral and kinetic data needed for your investigations of photoexcitation events with ultrafast time resolution.

Specifications . . .

- **Probe Spectral Range: UV-NIR (350-1600 nm)**
- **Spectral Resolution: VIS – 1.5 nm, NIR – 3.5 nm**
- **Time Window: Up To 8 ns**
- **Intrinsic Time Resolution: 7 fs, 2 fs Optional**
- **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: HELIOS 4.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)**

