KRONOS

Educational Flash Photolysis Spectrometer

Spectral Range
450-750 nm

Microsecond Time Resolution

No Laser Required
USER FRIENDLY

KRONOS is a portable flash photolysis spectrometer designed for transient absorption and emission measurements on the microsecond and longer time scales. It is intended as a chemical kinetics experiment in university or high school teaching laboratories. KRONOS can measure solid and liquid samples in absorption as well as emission modes. KRONOS utilizes a Xe arc flash lamp with bandpass filters as an excitation source.

The photoinduced transient species are studied by passing the output of a white LED through the sample. After passing through the sample, the probe light passes through an interference filter which selects out a 10 nm wide segment of the white light spectrum. The detector voltage output is digitized and transferred to a PC for generation of a kinetic trace and for further manipulations.

Features

- User Friendly
- USB Interface
- VIS Spectral Range
- Microsecond Time Resolution
- High Sensitivity
- No Laser Required
- Safe To Use Without Eye Protection
- Portable
- Comes With Laboratory Manuals
- Comprehensive Software

Ultrafast SYSTEMS

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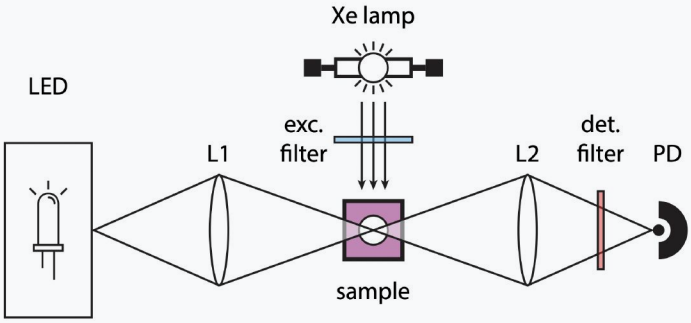
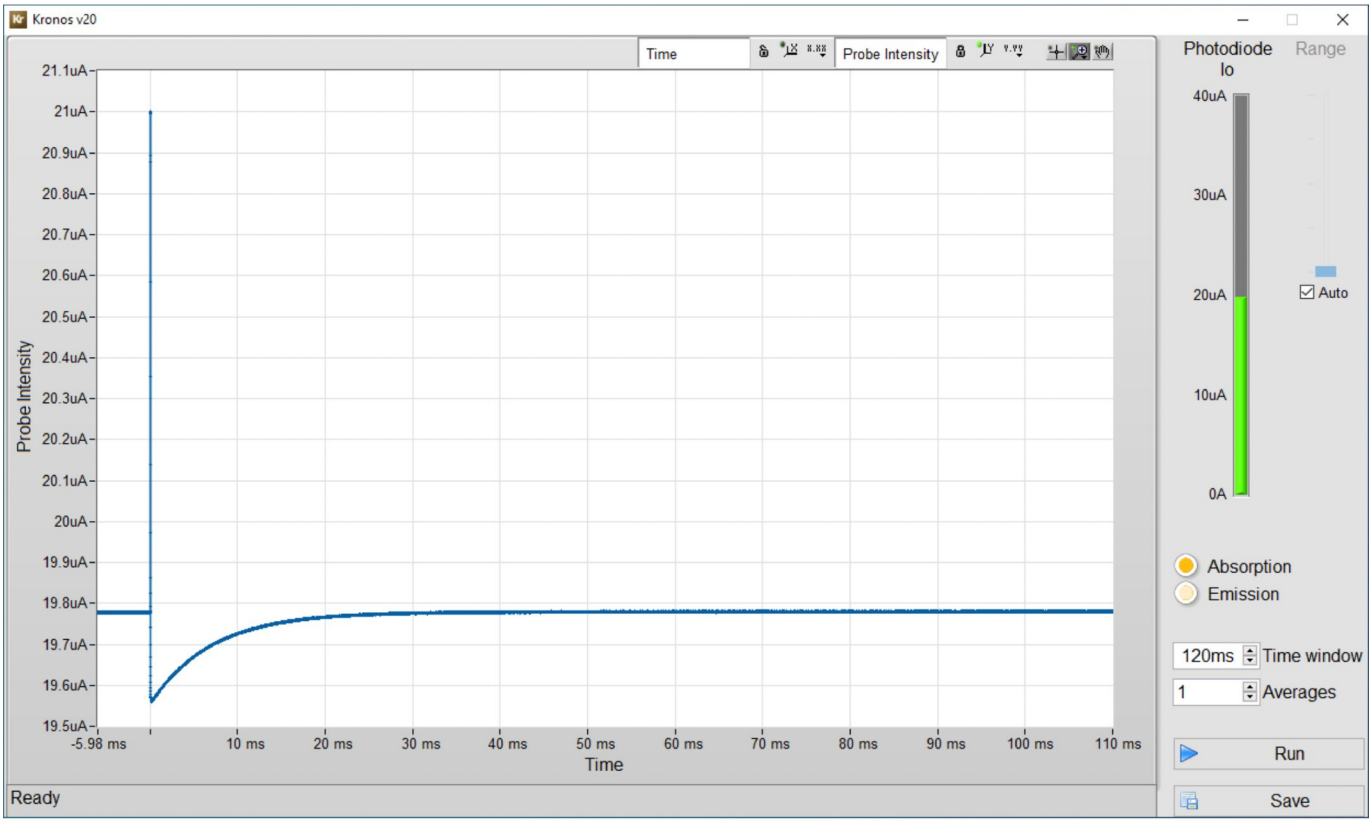
Specifications

- Spectral Range: 450-750 nm
- Detector: Si Photodiode
- Time Resolution: 100 µs
- Built-In Excitation Light Source: Xe Arc Flash Lamp
- Built-In Probe Light Source: Broadband LED



Software



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