

HARPIA

Extended Spectroscopic Systems

new



Capabilities of HARPIA-TA spectrometer can be further expanded by HARPIA-TF and HARPIA-TB extensions. Fundamentally, the all-integrated HARPIA system can be viewed as a miniaturized lab facilitating all the most popular time-resolved spectroscopy experiments in a single package. The all-inclusive HARPIA system can provide an extensive comprehension of the intricate photophysical and photochemical properties of the investigated samples.

Switching between different experimental realizations is fully automated and requires very little user interference. The optical layout of HARPIA system is refined to offer both an incredibly small footprint (see the dimensions below) and an easy and intuitive user experience. Despite its small size, HARPIA is easily customizable and can be tailored for specific measurement needs. All the experiments that the HARPIA system provides are managed by a new and improved user application with experiment guiding wizards, measurement presets, and development kit for custom applications.

HARPIA setup unifies multiple time-resolved spectroscopy capabilities, including:

- Femtosecond transient absorption
- Femtosecond transient reflection
- Femtosecond multi-pulse transient absorption/reflection measurements
- Femtosecond fluorescence upconversion
- Hundred picoseconds-to-microsecond time-correlated single photon counting (TCSPC)
- Automated measurements of intensity dependence of transient absorption and time-resolved fluorescence signal
- Possibility to perform time resolved femtosecond stimulated Raman scattering (FSRS) experiments

Available HARPIA configurations

HARPIA

Ultrafast Transient Absorption, TCSPC and Fluorescence Upconversion Spectroscopic System



HARPIA

Ultrafast Multi-pulse Transient Absorption Spectroscopic System



HARPIA

Ultrafast Multi-pulse Transient Absorption, TCSPC and Fluorescence Upconversion Spectroscopic System

