

# HARPIA

## Extended Spectroscopic Systems



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.

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

- Femtosecond transient absorption / 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
- Time resolved femtosecond stimulated Raman scattering (FSRS) experiments
- Flash photolysis

## Available HARPIA configurations

### HARPIA

Ultrafast Transient Absorption, TCSPC and Fluorescence Upconversion Spectroscopic System



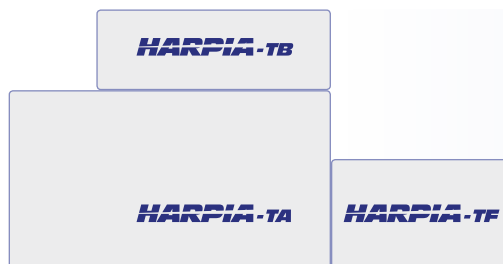
### HARPIA

Ultrafast Multi-pulse Transient Absorption Spectroscopic System



### HARPIA

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



ULTRAFAST LASERS

OSCILLATORS

HARMONICS GENERATORS

OPTICAL PARAMETRIC AMPLIFIERS

SPECTROMETERS

AUTOCORRELATORS