

HARPIA | MM

Microscopy Module

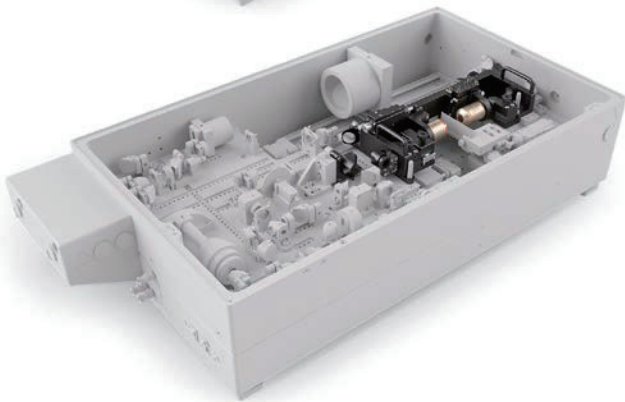
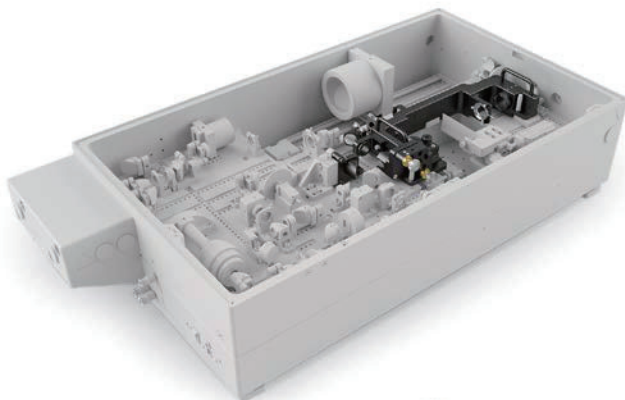
FEATURES

- Sub-5 μm spatial resolution
- Broadband and monochromatic probe options
- Motorized XYZ sample stage
- Transmission, specular and diffuse reflection geometry

SPECIFICATIONS

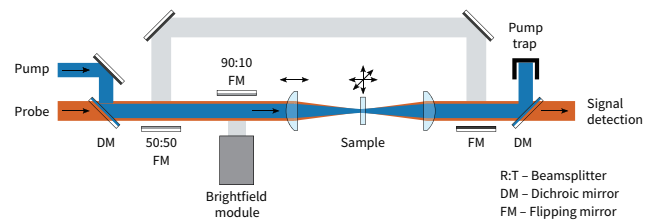
Spatial resolution	5 μm
Working distance	15 mm
Spectral range	470 – 1100 nm
Temporal resolution	500 fs
Sample motion range	13 × 13 × 13 mm

HARPIA-MM is a microscopy module add-on to the HARPIA spectrometer, which enables spatially-resolved pump-probe measurements with a sub-5 μm resolution. The sample can be positioned and scanned in a 13 mm range along XYZ axes using a motorized stage. Microscopic transient transmission and reflection signals can be measured using a broadband or a monochromatic probe. HARPIA-MM allows the acquisition of time-resolved spectra at a fixed position, difference absorption images at a fixed probe delay, and other types of data. Switching between bulk and microscopic pump-probe modes is implemented using self-contained modules, allowing experiment reconfiguration without disturbing the sample. The microscopy module features a brightfield mode to observe the sample and to determine the pump-probe spot location.

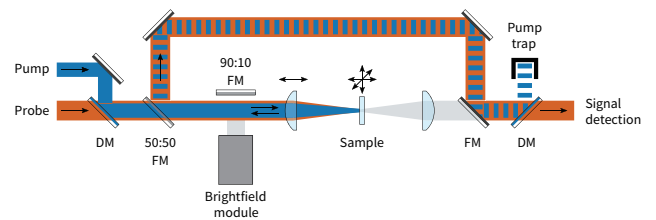


HARPIA with bulk (top) and microscopy (bottom) modules installed

TRANSMISSION MODE



REFLECTION MODE



BRIGHTFIELD MODE

