

HARPIA

Microscopy Module



The microscopy module is an add-on to a standard HARPIA-TA body and enables spatially-resolved pump-probe measurements with a sub-5 μm resolution. Broadband and monochromatic probe beam options are supported. The user can switch between bulk and microscopic pump-probe modes without disturbing the sample by swapping self-contained bulk and microscopy modules that are mounted on kinematic bases. A 3D motorized stage allows the sample to be positioned and scanned in a $13 \times 13 \times 13 \text{ mm}^3$ volume. Samples of various thicknesses can be accommodated using an optional motorized objective stage. The sample holder comes with cassettes for various sample types and sizes. The module can be configured in either transmission or reflection geometry, and the sample can be observed using a conventional brightfield mode to determine the pump-probe spot position.



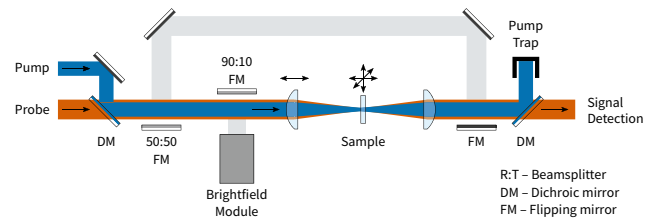
SPECIFICATIONS

Spatial resolution	5 μm
Working distance	15 mm
Spectral range	480 – 1100 nm
Temporal resolution	500 fs
Sample motion range	$13 \times 13 \times 13 \text{ mm}^3$

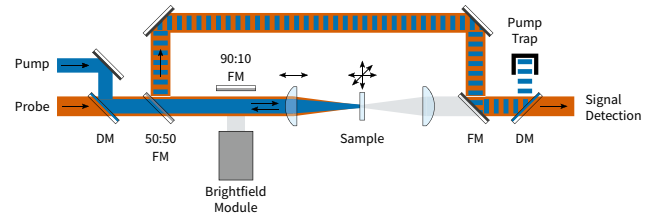


Switching between bulk and microscopic pump-probe modes can be done without disturbing the sample

TRANSMISSION MODE



REFLECTION MODE



BRIGHTFIELD MODE

