

HYPERION *Amplified Femtosecond Laser*

Optimized for
HALCYONE
HELIOS
EOS

Computer-Controlled



HYPERION is a compact amplified femtosecond laser for Ultrafast Systems' time-resolved spectrometers. The laser's robust thermally stabilized monolithic body and direct diode pump architecture provide true turn-key operation and low-cost maintenance.

When coupled to Ultrafast Systems' Apollo OPA, this laser will reliably deliver femtosecond pulses tunable from UV to Mid-IR.

Features

- Simplified integration with Ultrafast Systems' OPAs and spectrometers
- Pulse energy up to 500 μ J
- Pulse duration <290 fs
- Excellent power and beam-pointing stability
- One-box design
- Computer-controlled

Hyperion laser as part of a complete transient absorption setup. Shown on a 4'x8' table.



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Model	6W	10W
Maximum pulse energy	500 μ J	500 μ J
Max. average output power	6W	10W
Pulse duration	<290 fs	
Center wavelength	1040 \pm 10 nm (fixed)	
Repetition rate (user-adjustable)	Single shot - 200 kHz	
Power stability	<0.5% rms over 48 h	
Polarization	linear, vertical	
Beam quality	TEM00, M ² <1.3	
Beam ellipticity	<0.2	
Beam pointing stability	<25 μ rad/ $^{\circ}$ C	
Power supply requirements	single-phase; 100-240 VAC; 50/60 Hz	
Power consumption	<1.5 kW	