

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 2 mJ
- Pulse duration <290 fs
- Excellent power and beam pointing stability
- Monolithic thermally stabilized body
- Computer-controlled

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



Model	3W	6W	10W
Maximum pulse energy	2 mJ	400 μ J	400 μ J
Max. average output power	3W	6W	10 W
Pulse duration	<290 fs		
Center wavelength	1030 nm		
Repetition rate (user-adjustable)	Single shot - 200 kHz		
Power stability	<0.5% rms over 48 h		
Polarization	linear, vertical		
Beam quality	TEM00, $M^2 < 1.2$		
Beam ellipticity	<0.1		
Beam pointing stability	<25 μ rad/ $^{\circ}$ C		

Mechanical/Electrical

Power supply requirements	single-phase; 100-240 VAC; 50/60 Hz
Power consumption	<1.5 kW
Laser Head Dimensions, mm	654 x 298 x 265
Controller Rack Dimensions, mm	553 x 500 x 663



Optimized For
**HALCYONE
HELIOS
EOS**

