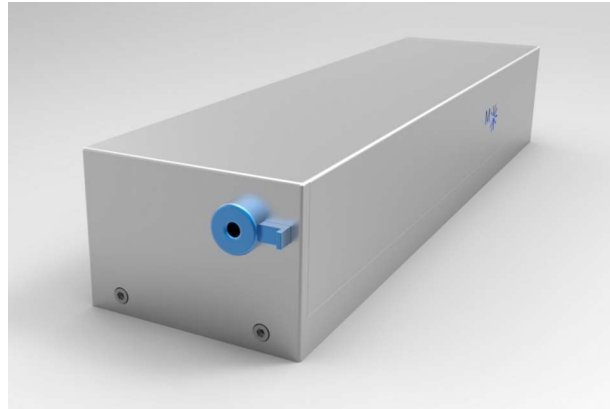




M-FEMTO-LAB Ultrafast Oscillators for Your Research

Laboratory-style femtosecond modelocked laser oscillators



Description For research and academic purposes, these breadboard-style femtosecond modelocked oscillator lasers are based on a diode-pumped Ytterbium solid state laser material and provide pulse durations down to <100fs or up to >1ps. This laser could become your lab engine – it is a lab-type, open-housing (user accessible) modelocked laser oscillator employing a semiconductor saturable absorber mirrors (SeSAMs) for stable and self-starting modelocking. Due to the soliton modelocking mechanism, the laser emits high spectral purity pulses and clean, transform-limited sech^2 -shaped pulses. Included is a 19" rack controller with the laser diode and controller electronics.

Applications

- Seeding of Yb laser amplifiers or large scale Nd:Glass laser amplifiers (1053 nm)
- Pumping of OPOs
- Nonlinear microscopy
- Ultrafast studies
- Supercontinuum generation

Models/Configurations

- Femtosecond models with wavelengths selectable within 1030 – 1053nm.
- Pulse durations can be tailored to customer needs.
- SYNC option available for synchronizing with an external reference clock.
- Inquire about customizations or specifications, low rep rates, other pulse lengths, ...

Specifications	Model: M-FEMTO-LAB ...	PR119, PR184	PR169
Max. average output power		0.2 ~ 5 W	>0.25 W
Wavelength (center)		1030 ~ 1053 nm	1053 nm
Pulse repetition rate* (typ.)		75 MHz	77 MHz
Pulse duration (FWHM)		<100 fs ... 2 ps	200 fs
Beam quality M^2 (typ.)		<1.15	<1.1
Controller unit		19" rack (3 HE)	19" rack (3 HE)
Electrical power requirement		Wall plug	Wall plug
Cooling requirement**		air or closed loop chiller	
Size (l x w x h)***		~566 x 150 x 105 mm ³	
	*Inquire for other rep rates		
	**ambient air 20-28°C (lab conditions)		
	***not including connectors, shutter, etc.		

Dimensions

