



Innovative Ultrafast Laser Solutions

Magellan-HE

High-Average-Power Amplified Femtosecond Fiber Oscillator

ADVANTAGES

- Direct diode-pumped Yb-doped fiber oscillator
- All-diode-pumped, all-solid-state construction
- Robust, compact all-in-one-box design
- >5 watts average power output
- Single-shot to 25MHz user adjustable repetition rate
- High beam quality
- Low noise, cw-pumped
- High stability and longevity

APPLICATIONS

- Nano-machining, nano-surgery
- Streak camera synchronization
- THz generation
- Photoluminescence Spectroscopy
- Photopolymerization
- Multiphoton Microscopy
- Optical Coherence Tomography
- Amplifier seed oscillator



Magellan-HE is an amplified, direct-diode-pumped Yb-doped fiber oscillator with more than 200nJ pulse energy from single shot to 25MHz.

Magellan-HE is the high energy version of Magellan oscillator series delivering on the promise of fiber laser technology with performance far higher than diode bar pumped Vanadate laser-pumped Ti:Sapphire oscillators and does so at a fraction of the cost, with a much longer lifetime, and at a substantially lower cost-of-ownership. Magellan HE is a fiber-pigtailed, telecom-qualified, direct-diode-pumped oscillator with integrated fiber amplifier in a compact "all-in-one-box" enclosure. It is configured to produce low noise femtosecond pulses with average power of >5W at 25MHz and has the ease-of-operation and reliability you expect from a plug-and-play device.

Magellan-HE is fully customizable and has the capability to provide rep rates between single-shot and 25MHz.

An optional harmonic generators for second, third and fourth harmonics are also available.

Specifications:

Average Power	>5 watts
Repetition Rate	Single-shot to 25MHz ¹
Pulse Energy	>200nJ
Pulse Duration	sub-250fs
Transverse Mode	TEM ₀₀
Beam Quality (M ²)	<1.2
Noise	<1% RMS
Central Wavelength	1030nm
Electrical	110 - 240VAC (8A)
Polarization	Linear, Horizontal
Cooling requirements	None
Laser Head Dimensions	28"L x 18"W x 7.5"H

Notes:

- Other pulse energies are available
- May require additional pulse picker¹
- Custom configurations available. Please contact us at sales@cmxr.com
- Optional harmonic (2nd, 3rd & 4th) generation modules are available
- One-year full system warranty with 5-year full replacement warranty on oscillator
- ¹Optional PulsePicker is available for lower repetition rates



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