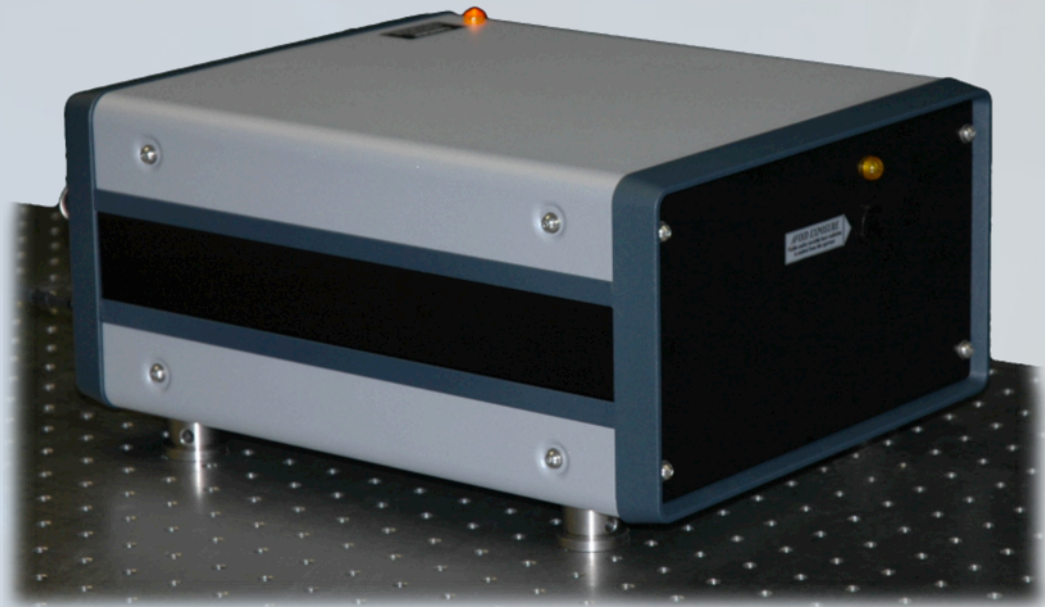


Magellan II™

Femtosecond/Picosecond Fiber Oscillator



- **Yb-doped fiber gain medium**
⇒ *high stability*
- **Single-emitter diode pump**
⇒ *long life*
- **Compact, all-in-one-box design**
⇒ *easy to use*
- **Operates from 1.025-1.035 μm**
⇒ *ideal for bio applications*
- **25 MHz repetition rate**
⇒ *longer sample relaxation time*
- **nJ level pulse energies**
⇒ *access to nonlinear effects*
- **Extremely low noise**
⇒ *high signal-to-noise ratio*
- **Free-space or fiber output**
⇒ *flexible delivery*
- **Optional SHG**
⇒ *access to visible wavelength*
- **Ideal for**
 - TPEF
 - OCT
 - THz generation
 - Microscopy
 - Photopolymerization
 - Amplifier seed oscillator

Magellan II™ delivers on the promise of fiber laser technology with performance comparable to diode-bar-pumped Vanadate laser-pumped Ti:Sapphire oscillators – and does so at a fraction of the cost, with much longer lifetime, and substantially lower cost-of-ownership.

Magellan II™ is a fiber-pigtailed, telecom-qualified, direct-diode-pumped oscillator (no intermediate Vanadate pump laser) in a compact “all-in-one-box” enclosure. It can be configured to produce low noise picosecond or femtosecond pulses and has the ease-of-operation, and reliability you expect from a plug-and-play device.

Free-space propagating output coupling is standard. Fiber output coupling and/or harmonic generator are optional.

Performance Parameters:

Femtosecond Version

Pulse energy: >1 nJ/pulse
Pulse width: < 200 fs
Average power: 25 mW

Picosecond (Option)

Pulse energy: >2 nJ/pulse
Pulse width: ~ 3 ps
Average power: 50 mW

Amplified (Option)

Pulse energy: ~10 nJ/pulse
Pulse width: < 200 fs
Average power: 250 mW

General

- Center wavelength: fixed between 1.025 and 1.035 microns
- Transverse mode: TEM₀₀
- Repetition rate: nominal 25 MHz
- Beam diameter: 1.8 mm +/- 0.2 mm
- Beam divergence: < 2 mrad
- Dimensions: 13 x 10 x 6.2 in³
- Electrical: 100 - 240 Volts, 2 amps

Warranty

Diode is warranted for 40,000 hours or five (5) years, whichever comes first.

Please contact us for more information.

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For more details, please visit our web site at <http://www.cmxr.com>.



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