

Innovative Ultrafast
Laser Solutions

ADVANTAGES

- Direct diode-pumped Yb-doped fiber design
- Robust, solid-state construction
- Flexible parameter space
- High beam quality
- Modular & compact
- 25MHz repetition rate
- High stability and longevity

APPLICATIONS

- Multi-photon microscopy
- High-fidelity micromachining
- 3D Tomography
- Micro/Nano Patterning
- High power laser seeding
- Ultrafast electron microscopy (SUEM)
- Photopolymerization

Magellan-5

High repetition rate, high average power Yb-fiber oscillator



Magellan-5 is an amplified, direct diode-pumped Yb-doped fiber oscillator.

Magellan delivers on the promise of fiber laser technology with performance far higher and with a much longer lifetime than diode-pumped solid-state oscillators and does so at a fraction of the cost.

The Magellan oscillator is a fiber-pigtailed, telecom qualified direct-diode pumped oscillator in a compact enclosure. Magellan-5 is the combination of a fiber oscillator and a fiber amplifier to produce 5W average power at the native rep rate of ~25MHz producing low noise short femtosecond pulses.

Magellan-5 laser provides reproducible high quality and clean femtosecond pulses on a 24/7 basis for your demanding applications.

Specifications:

Average Power	5W
Repetition Rate	25MHz
Pulse Energy	200nJ
Pulse Duration	Sub-150fs
Transverse Mode	TEM ₀₀
Beam Quality (M ²)	<1.2
Noise	<1% RMS
Central Wavelength	1035nm
Electrical	110VAC or 240VAC
Polarizations	Linear, Horizontal
Cooling Requirements	None
Beam diameter	1.8 +/- 0.2mm
Beam divergence	<2 microrad

Notes:

- OEM-ready for embedded applications
- All major laser parameters are customizable
- Optional harmonic generation (2nd, 3rd and 4th) modules are available
- Synchronization options available
- Custom configurations available. Please contact us at sales@cmxr.com
- 1-year system warranty and 5-year oscillator warranty



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