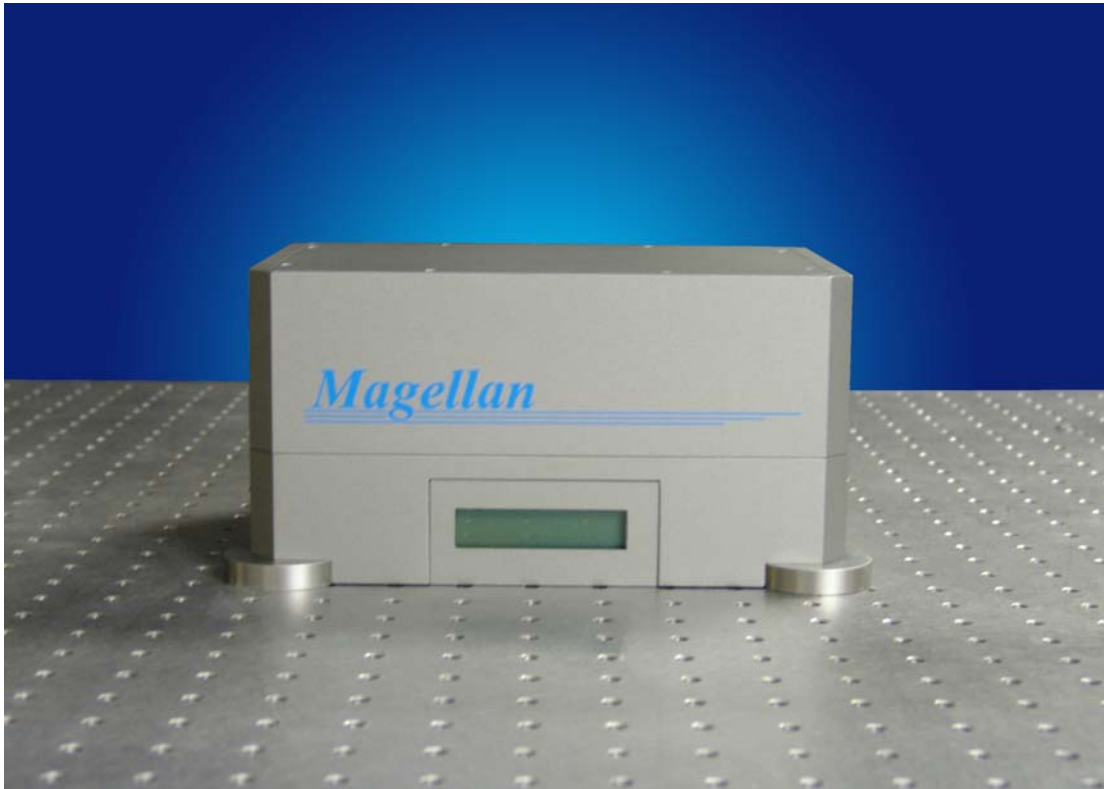


## Magellan™ Femtosecond/Picosecond Fiber Oscillator



- ❖ **Yb-doped fiber laser**
- ❖ **Single-element diode pump**
- ❖ **Compact, robust design**
- ❖ **Operates from 1.025-1.035 microns**
- ❖ **nJ level pulse energies**
- ❖ **Extremely low noise**
- ❖ **Free-space output port**
- ❖ **Ideal for**
  - **OCT**
  - **THz generation**
  - **microscopy**
  - **photopolymerization**

Magellan is a Yb-doped fiber laser oscillator producing nJ level pulses at a wavelength of 1.03 microns. Magellan is able to deliver higher pulse energy from an oscillator without encountering non-linear effects that cause the pulse to degrade. Consequently, it is now possible to achieve up to a ten-fold improvement in power output from a source without having to incur the complexity of postpulse amplification. The result is a compact, robust source of picosecond or femtosecond pulses with the low noise, ease-of-operation, and reliability of a single-element, telecom-qualified, diode-pumped fiber oscillator. The standard configuration consists of a free-space propagating output port. Optional accessories will include extensions for OCT, THz generation, multi-photon microscopy and multi-photon photopolymerization.

## Performance Parameters:

### Femtosecond Version:

Pulse energy: > 1 nJ/pulse  
Pulse width: < 200 fs

### Picosecond (Option):

Pulse energy: > 2 nJ/pulse  
Pulse width: ~ 3 ps

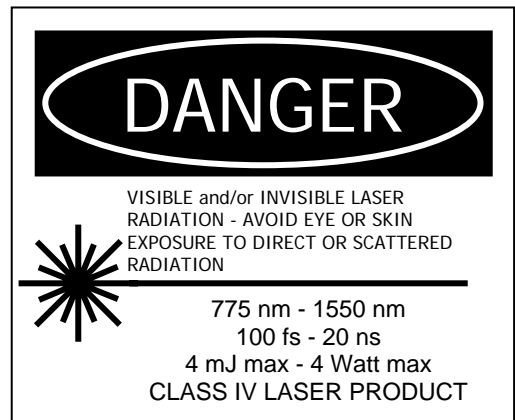
### General:

Center wavelength: fixed between 1.025-1.035 microns  
Transverse mode: TEM<sub>00</sub>  
Repetition rate: nominal 37 MHz  
Average power output: 37 mW  
Beam diameter: 1.8 mm +/- 0.2 mm  
Beam divergence: < 2 mrad  
Dimensions: 225 x 160 x 117.28 mm  
Electrical: 100- 240 Volts, 2 amps  
Compressed Output  
    Beam height 88.9 mm  
Uncompressed Output  
    Beam height 82.55 mm

### Warranty

Oscillator parts, including the diode laser, are warranted for 40,000 hours or five (5) years, whichever comes first. For details, contact our sales department (sales@cmxr.com).

<sup>2</sup>Contact Clark-MXR at [sales@cmxr.com](mailto:sales@cmxr.com) for further details



Version 070107  
Due to space limitations, only basic information and specification parameters are listed on this sheet.  
For more details, please visit our web site at <http://www.cmxr.com>.

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