

## Innovative Ultrafast Laser Solutions

### ADVANTAGES

- Direct diode-pumped Yb-doped fiber design
- Robust, distributed design
- Flexible parameter space
- High beam quality
- Modular & compact
- OEM-ready

### APPLICATIONS

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

# Solas - Micro

High repetition rate Yb-fiber lasers for microscopy and micromachining



SOLAS-Series is a family of OEM-ready fiber lasers based on a novel oscillator architecture that provides significantly improved reliability and stability.

These lasers were developed for multi-photon microscopy and high-fidelity micromachining. The miniature size of this Solas - Micro is ideal for OEM integration into setups that require minimal user supervision or interaction.

The software controlled, user adjustable laser parameters can be interfaced with either a microscope or micromachining workstation for seamless, unified operation.

Its modular and distributed architecture is designed to be user-friendly and service-free for easier integration with experimental setups and micromachining workstations.

SOLAS-Series lasers provide reproducible high quality and clean femtosecond pulses on a 24/7 basis for your demanding applications.

## Specifications:

Average Power	>2W, other power levels are available
Repetition Rate	100kHz to 2MHz user adjustable (other rep rates are available upon request)
Pulse Energy	>1uJ (100kHz to 2MHz)
Pulse Duration	Sub-200fs
Transverse Mode	TEM <sub>00</sub>
Beam Quality (M <sup>2</sup> )	<1.2 (all available repetition rates)
Noise	<1% RMS (all available repetition rates)
Central Wavelength	1035nm
Electrical	110VAC or 240VAC (built-in UPS)
Polarizations	Linear, Horizontal or Vertical
Cooling Requirements	Closed-loop chiller included in the controller
Laser Head Dimensions	46cmx28cmx15cm(H)
Control Cabinet Dimensions	65cmx58cmx85cm(H)
User Interface/Connectivity	Touchscreen (tablet) computer, Ethernet, Web-enabled

### 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](mailto:sales@cmxr.com)
- 1-year system warranty and 5-year oscillator warranty



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