

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
- Ultrafast electron microscopy (SUEM)
- Photopolymerization

SOLAS-Series

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.

These lasers were developed for multiphoton microscopy and high-fidelity micromachining. The miniature size of this laser series is ideal for OEM integration into setups that require minimum user supervision or interaction.

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

It's 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 ₀₀
Beam Quality (M ²)	<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
- 1-year system warranty and 5-year oscillator warranty



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