

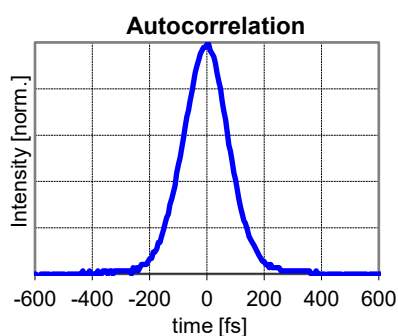
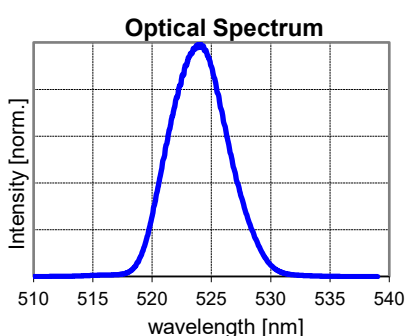
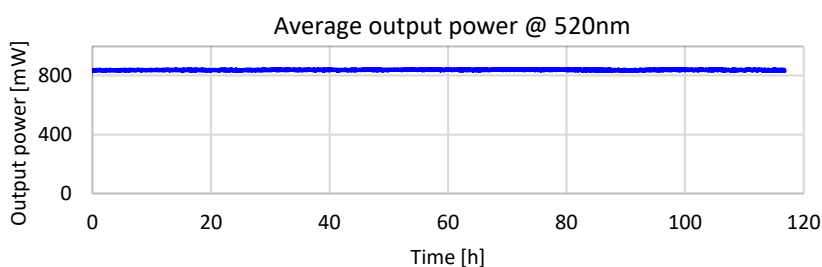
YLMO 520

Femtosecond Fiber Laser for 3D Printing and Microscopy



The YLMO 520 is based on a frequency-doubled ytterbium doped femtosecond fiber laser (YLMO). The system delivers more than 500 mW of average output power at 520 nm, with pulse durations below 150 fs. A versatile design permits simultaneous access of the 1040 nm fundamental, at an arbitrary power splitting ratio. High peak powers, excellent stability, and consistent long-term performance make the YLMO 520 a perfect fit to applications such as multiphoton excitation, pump-probe spectroscopy, or two-photon polymerization. Menlo Systems' femtosecond fiber laser integrates the latest developments in fiber technology and incorporates these enhancements into an easy-to-use product.

PERFORMANCE DATA



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KEY SPECIFICATIONS

- Wavelength 520 nm & 1040 nm
- Output Power
 - >500 mW @ 520 nm
 - >4 W @ 1040 nm
- Repetition Rate 100 MHz
- Pulse Width
 - <150 fs @ 520 nm
 - <100 fs @ 1040 nm

APPLICATIONS

- Two-Photon Polymerization (3D Printing)
- Multiphoton Microscopy
- Pump Probe Spectroscopy

FEATURES

- figure 9[®] Technology
- Reliable Mode-Locking
- Long-Term Stable Operation
- Dual Color Output
- Maintenance Free Operation
- Compact Design and Silent Operation

OPTIONS

- Fast Amplitude Modulation

YLMO 520

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Femtosecond Fiber Laser for 3D Printing and Microscopy

SPECIFICATIONS

YLMO 520

Center Wavelength	520 nm ± 5 nm
Pulse Width (FWHM)	< 150 fs (Gaussian)
Average Power*	> 500 mW (higher output power on request)
Pulse Energy	> 5 nJ
Repetition Rate*	100 MHz
Output Port	free space
Polarization	linear, s-polarized
Beam Divergence	<2 mrad
Beam Quality	M ² <1.2 (typ. <1.1)
Auxiliary Output Port**	free space, > 4W average power, 1040 nm, <100 fs

*Please inquire for your specific combinations of average output power, pulse duration, repetition rate.

**User can switch between 520 nm and 1040 nm port (arbitrary splitting ratios possible).

REQUIREMENTS AND DIMENSIONS

Operating Voltage	100-120 V (50/60 Hz), 220-240 V (50/60 Hz)
Max. Power Consumption	200 W
Operating Temperature	15 °C - 30 °C
Laser Head	265 x 220 x 113 mm ³ / <10 kg
Control Unit	19", 2 HU (449 x 496 x 96 mm ³), <20 kg
Umbilical Cord Length	2 m*
Interfaces	USB, Interlock, Trigger-Out

*Please inquire for your specific umbilical cord lengths.

ORDERING INFORMATION

Product Code	YLMO 520
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Please call for pricing. Specifications are subject to change without notice. Custom modifications are available, please inquire.



Invisible laser radiation
avoid exposure to beam
Class 4 laser

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