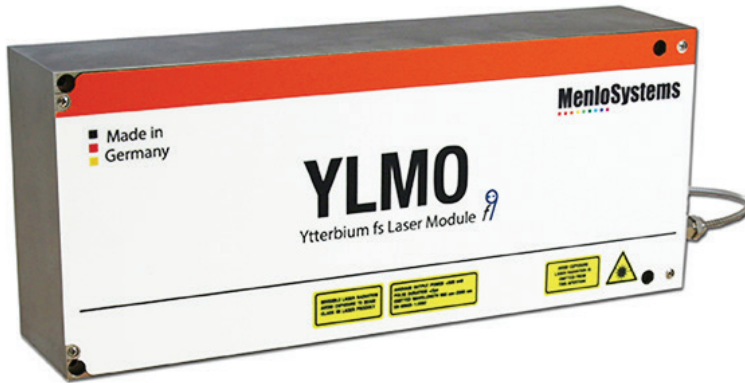


# YLMO

## Femtosecond Fiber Seed Laser 1030 nm



## MenloSystems

### KEY SPECIFICATIONS

- Wavelength 1030 nm
- Output Power >2W
- Repetition Rate 50-100 MHz

### APPLICATIONS

- Amplifier Seeding for
  - High Harmonic Generation
  - Attosecond Science
  - Ultrafast Spectroscopy
  - Material Processing
  - Ophthalmology

### FEATURES

- High Stability
- Low Amplitude and Phase Noise
- All-PM Solution
- Single Mode-Lock State
- figure 9® Technology
- Laser Output in Less than 60 Seconds after Pressing On-Button

### OPTIONS

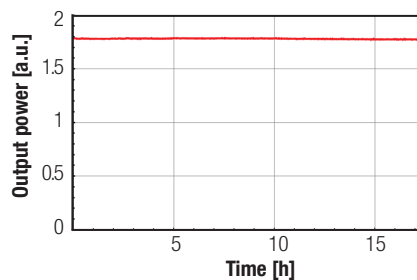
- **VARIO**  
**User-Defined Repetition Rate**  
Factory-set value selectable in the 50-100 MHz range
- **MULTIBRANCH**  
**Additional Seed Ports**  
Seeding of multiple amplifiers

Menlo Systems' fiber-based femtosecond laser sources integrate the latest achievements in fiber technology into easy-to-use products. Menlo Systems' unique figure 9® mode locking technology results in reproducible and long-term stable operation. The YLMO with its PM-fiber design guarantees excellent stability and low-noise operation. As seed source for amplifiers the oscillator is maintenance free, user installed and ready to use at the press of a single button. In short: An OEM laser engineered for 24/7 operation.

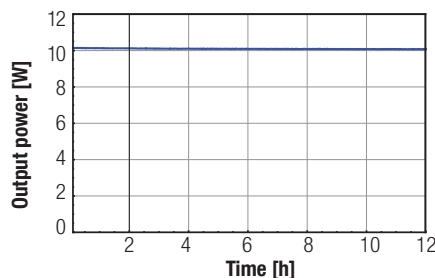
### PERFORMANCE DATA

#### Amplitude noise

YLMO Seed Laser  
< 0.5% rms (over >15h in ambient temperature)

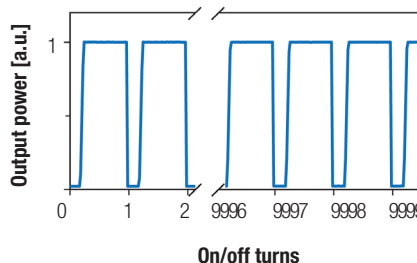


YLMO with Amplifier  
< 1% rms (over >12h in ambient temperature,  
YLMO seeding Menlo BlueCut)



#### Reproducibility

Identical and consistent laser performance



## Femtosecond Fiber Seed Laser 1030 nm

SPECIFICATIONS	YLMO	YLMO HIGH POWER	YLMO-2W*
Center Wavelength	1030 nm $\pm$ 10 nm**	1030 nm $\pm$ 10 nm**	1030 nm $\pm$ 10 nm**
Average Power	>5 mW	>200 mW	>2 W
Pulse Energy	>100 pJ	>4 nJ	>20 nJ
Bandwidth	10 nm (other bandwidths on request)		
Pulse Width	chirped (bandwidth limited pulses with <150 fs on request)		<150 fs
Repetition Rate	50 MHz (50-100 MHz with VARIO)***	50 MHz (50-100 MHz with VARIO)***	100 MHz***
Output Port	fiber-coupled, SC/APC	fiber-coupled, SC/APC	free space
Polarization	linear, PM fiber	linear, PM fiber	linear

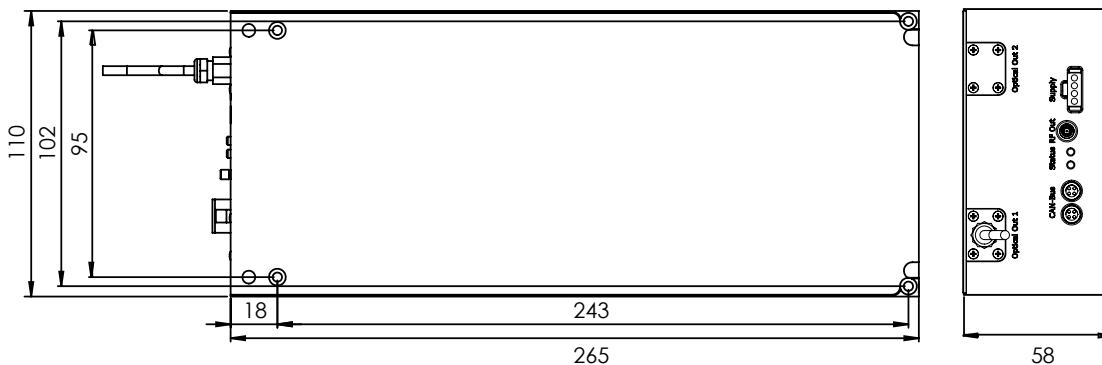
\*Delivered with additional electronic unit 19", 2HE \*\*Other wavelengths on request \*\*\*Please inquire for your specific combinations of average power, pulse duration, repetition rate and external fiber length.

### REQUIREMENTS

Operating Voltage	5 VDC, 12 VDC/2 A**	5 VDC, 12 VDC/2 A**	100/115/230 VAC
Power Consumption	10 VA	10 VA	120 VA
Operating Temperature	15 °C - 35 °C		
Laser Head Dimensions/Weight	265 x 110 x 58 mm <sup>3</sup> / 3 kg	265 x 110 x 58 mm <sup>3</sup> / 3 kg	265 x 110 x 76 mm <sup>3</sup> / <5 kg
Warm-Up Time	<60 s		

\*\* Power supply for 100/115/230 VAC can be provided as option.

### TECHNICAL DRAWING



Please contact us for technical drawings for YLMO-2W.

### ORDERING INFORMATION

Product Code	YLMO	YLMO HIGH POWER	YLMO-2W
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Please call for pricing. Specifications are subject to change without notice. Custom modifications are available, please inquire.

