

C-Fiber

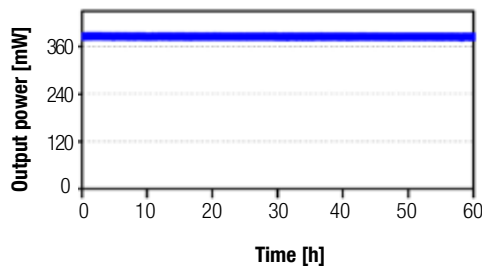
Femtosecond Fiber Laser 1560 nm



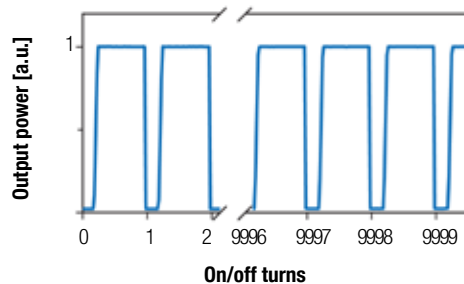
Menlo Systems' fiber-based femtosecond laser sources integrate the latest achievements in fiber technology into easy-to-use products. Menlo Systems' unique Figure 9 design results in reproducible and long-term stable operation. It is based on the well-established nonlinear optical loop mirror (NOLM) mode locking mechanism. Both oscillator and amplifier use polarization maintaining (PM) fiber components only, ensuring excellent stability and low-noise operation. The laser is maintenance free, user installed and ready to use at the press of a single button. Customize your laser with the available options to match the requirements of your application.

PERFORMANCE DATA

Amplitude noise
< 0.5% rms (over 24h)



Reproducibility
Identical and consistent laser performance



MenloSystems

KEY SPECIFICATIONS

- Wavelength 1560 nm
- Output Power >350 mW
- Pulse Length <90 fs
- Repetition Rate 50-250 MHz

APPLICATIONS

- Synchronization and Timing
- Ultrafast Spectroscopy
- Supercontinuum Generation
- Material Characterization
- Testing at Telecom Wavelengths

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

OPTIONS

- **SYNC100**
Repetition Rate Synchronization
Tunable cavity length by high-bandwidth piezo-controlled synchronization
- **RRE-SYNCR0**
Repetition Rate Stabilization
Feedback electronics to phase lock pulses to an external clock (see separate data sheet for more details)
- **VARIO**
User-Defined Repetition Rate
Factory-set value selectable in the 50-250 MHz range
- **MULTIBRANCH**
Additional Seed Ports
Seeding of multiple amplifiers with optional subsequent frequency conversion to cover multiple wavelengths

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C-Fiber

Femtosecond Fiber Laser 1560 nm

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SPECIFICATIONS	C-FIBER	C-FIBER HIGH POWER
Center Wavelength	1560 nm ± 20 nm	
Average Power	>100 mW	>350 mW
Pulse Energy	>1.0 nJ	>3.5 nJ
Pulse Width	<90 fs	
Repetition Rate	100 MHz (50-250 MHz with VARIO)*	
Repetition Rate Instability	<1 ppm over 90 hours at constant temperature	
Timing Jitter	<2 fs [rms, 10 kHz.. 10 MHz]	
Output Port	fiber-coupled (FC/APC)	free space
Additional Fiber-Coupled Seed Port	1 (up to 4 with MULTIBRANCH)	
Polarization	linear, PM fiber	linear, s-polarized
Beam Height	-	55 mm

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

REQUIREMENTS

Operating Voltage	100/115/230 VAC	
Frequency	50 to 60 Hz	
Power Consumption	120 VA	
Cooling Requirements	no water cooling is required	
Laser Head Stabilization	actively temperature stabilized	
Operating Temperature	22 °C ± 5 °C	
Laser Head Dimensions/Weight	413 x 90 x 178 mm ³ / 7 kg	413 x 120 x 178 mm ³ / 10 kg
Control Unit Dimensions/Weight	448 x 132 x 437 mm ³ / 10 kg	448 x 132 x 437 mm ³ / 12 kg
Warm-Up Time	<60 s	

ORDERING INFORMATION

Product Code	C-Fiber	C-Fiber HIGH POWER
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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 3B laser

MenloSystems

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