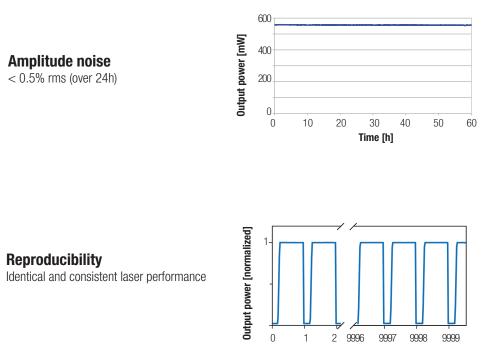
# **C-Fiber**

### 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<sup>®</sup> design results in reproducible and long-term stable operation. It is based on the well-established Nonlinear Amplifying Loop Mirror (NALM) 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. Complete synchronization solution is available with laser and synchronization electronics. All components from one supplier with full automation guarantees hands off operation and more time for your experiments.

#### PERFORMANCE DATA



On/off turns

## **MenioSystems**

#### **KEY SPECIFICATIONS**

- Wavelength 1560 nm
- Output Power >500 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
- Menlo figure 9<sup>®</sup> Technology

#### **OPTIONS**

- SYNC100 Repetition Rate Synchronization Tunable cavity length by high-bandwidth piezo-controlled synchronization
- RRE-SYNCRO
   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 ampli

Seeding of multiple amplifiers with optional subsequent frequency conversion to cover multiple wavelengths

## **C-Fiber** Femtosecond Fiber Laser 1560 nm

SPECIFICATIONS	C-FIBER	<b>C-FIBER HIGH POWER</b>
Center Wavelength	1560 nm ± 20 nm	1560 nm ± 20 nm
Average Power	>100 mW	>500 mW
Pulse Energy	>1 nJ	>5 nJ
Pulse Width	<90 fs	
Repetition Rate	100 MHz (50-250 MHz with VARIO)*	
Repetition Rate Instability	<1 ppm over 20 hours at constant temperature	
Timing Jitter	<2 fs [rms, 10 kHz 1 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	n.a.	102 mm
*Please inquire for your specific combinations of average	power, pulse duration and repetition rate.	·

#### REQUIREMENTS

100/115/230 VAC		
	50 to 60 Hz	
	120 VA	
no wa	no water cooling is required	
actively	actively temperature stabilized	
	15 °C - 35 °C	
413 x 90 x 178 mm <sup>3</sup> / 7 kg	413 x 120 x 178 mm <sup>3</sup> / 10 kg	
448 x 132 x 437 mm <sup>3</sup> / 10 kg	448 x 132 x 437 mm <sup>3</sup> / 12 kg	
	<60 s	
	no wa actively 413 x 90 x 178 mm <sup>3</sup> / 7 kg	

## ORDERING INFORMATION Product Code C-Fiber C-Fiber HIGH POWER

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



#### **MenioSystems**

Menio Systems GmbH T+49 89 189 166 0 sales@meniosystems.com Menio Systems US T+1 303 635 6406 ussales@meniosystems.com Menio Systems Japan T+81 907 409 20 21 jpsales@meniosystems.com

Menlo Systems China T+86 21 6071 1678 chinasales@menlosystems.com

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