orange

Femtosecond Fiber Laser 1040 nm & 515 nm

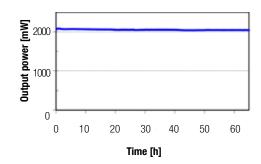


Menlo Systems' fiber-based femtosecond laser sources integrate the latest achievements in fiber technology into easy-to-use products. Menlo Systems' unique Figure 9 design results in reproducible and long-term stable operation. It is based on the well-established nonlinear optical loop mirror (NOLM) mode locking mechanism. Both oscillator and amplifier use polarization maintaining (PM) fiber components only, ensuring excellent stability and low-noise operation. The second harmonic generation is a highly efficient module for maximum performance. 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

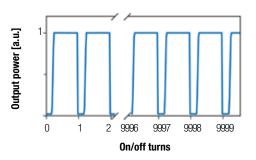
Amplitude noise

< 0.5% rms (over 24h)



Reproducibility

Identical and consistent laser performance



MenioSystems

KEY SPECIFICATIONS

- Wavelength 1040 nm
- Output Power >1 W
- Pulse Length <150 fs
- Repetition Rate 50-250 MHz

APPLICATIONS

- Amplifier Seeding
- THz Generation & THz Physics
- Ultrafast Spectroscopy
- Multi-Photon Excitation
- 2-Photon Polymerization and 3D Printing

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

CHIRPED PULSES

Picosecond pulses for seeding applica-

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 amplifiers with optional subsequent frequency conversion to cover multiple wavelengths



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(구)에이어エ텍	
FiberAll www.FiBERALL.co.kr 광통신 전문 쇼핑몰! 파이버을!	

ORANGE	ORANGE HIGH POWER	ORANGE 515	
1040 nm ± 10 nm	1040 nm ± 10 nm	515 nm ± 10 nm	
>40 mW	>1 W	>250 mW	
>0.4 nJ	>10 nJ	>2.5 nJ	
<150 fs			
100 MHz (50-250 MHz with VARIO)*			
<1 ppm over 90 hours at constant temperature			
fiber-coupled (FC/APC)	free space	free space	
-	-	free space, 1040 nm, >1 W*	
1 (up to 4 with MULTIBRANCH)			
linear, PM 980 fiber	linear, p-polarized	linear, s-polarized	
-	75 mm	75 mm	
WITH OPTION CHIRPED PULSES			
1-4 ps	30-50 ps	-	
fiber-coupled (FC/APC)	fiber-coupled (FC/APC)	-	
linear, PM 980 fiber	linear, PM 980 fiber	- -	
	1040 nm ± 10 nm >40 mW >0.4 nJ <1 pp fiber-coupled (FC/APC) - linear, PM 980 fiber - WITH OPTION 1-4 ps fiber-coupled (FC/APC)	1040 nm ± 10 nm	

^{*}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			
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 120 x 178 mm ³ / 9 kg	500 x 580 x 140 mm ³ / 35 kg	500 x 759 x 140 mm ³ / 45 kg	
Control Unit Dimensions/Weight	449 x 435 x 132 mm ³ / 10 kg	449 x 509 x 266 mm ³ / 24 kg	449 x 509 x 266 mm ³ / 24 kg	
Warm-Up Time		<60 s		

^{*} User can switch between 515 nm and 1040 nm port.

ORDERING INFORMATION			
Product Code	orange	orange HIGH POWER	orange 515

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





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