

ELMO

Femtosecond Fiber Laser 1560 nm

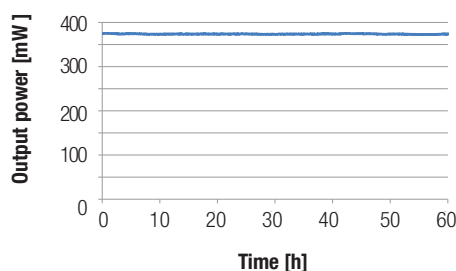


Menlo Systems' fiber-based femtosecond laser sources integrate the latest achievements in fiber technology into easy-to-use products. Menlo Systems' unique figure 9[®] mode locking technology results in reproducible and long-term stable operation. The ELMO with its all-fiber design guarantees excellent stability and low-noise operation. As seed source for fiber 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

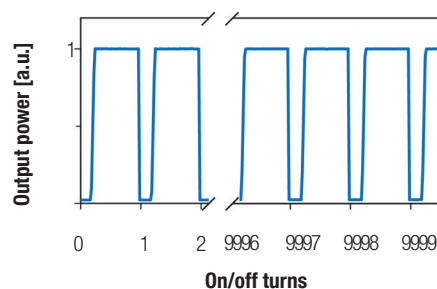
Amplitude noise

< 0.5% rms (over 24h)



Reproducibility

Identical and consistent laser performance



MenloSystems

KEY SPECIFICATIONS

- Wavelength 1560 nm
- Output Power : >330 mW in free space version, up to 200 mW with fiber coupling
- Repetition Rate 50-100 MHz

APPLICATIONS

- Amplifier Seeding
- THz Generation & THz Physics
- Ultrafast Spectroscopy

FEATURES

- High Stability
- Low Amplitude and Phase Noise
- All-PM Solution
- Single Mode-Lock State
- Menlo figure 9[®] Technology

OPTIONS

- **VARIO**
User-Defined Repetition Rate
Factory-set value selectable in the 50-100 MHz range
- **MULTIBRANCH**
Additional Seed Ports
Seeding of multiple amplifiers with optional subsequent frequency conversion to cover multiple wavelengths

Femtosecond Fiber Seed Laser 1560 nm

SPECIFICATIONS	ELMO	ELMO HIGH POWER
Center Wavelength	1560 nm \pm 30 nm	1560 nm \pm 30 nm
Average Power	>1 mW (up to 15 mW)*	>330 mW in free space version** >100 mW in fiber coupled version (up to 200 mW)*
Pulse Width	chirped (<150 fs)*	<90 fs
Output Port	fiber-coupled	free space** or fiber-coupled
Polarization	linear, PM fiber	linear, p-polarized*
Dispersion Management	dispersion can be factory set to achieve short pulses after 1-10 m of additional fiber	
Repetition Rate	100 MHz (50-100 MHz with VARIO)*	
2nd Fiber-Coupled Seed Port	yes	
2nd High Power Output Port	available with MULTIBRANCH	

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

**Free space version (ELMO High Power-FS) with additional compressor module: versatile handheld compressor module can also be mounted in s-polarized orientation. Standard external patch cord length is 0.5 m.

REQUIREMENTS	ELMO	ELMO HIGH POWER
Operating Voltage	12 VDC/2 A***	12 VDC/3 A***
Power Consumption	10 VA	20 VA
Operating Temperature	15 °C - 35 °C	15 °C - 35 °C
Laser Head Dimensions/Weight	195 x 95 x 28 mm ³ / 0.7 kg	195 x 95 x 75 mm ³ / 2.9 kg
Compressor Dimensions/Weight	-	182 x 95 x 32 mm ³ / 1 kg (free space version)
Warm-Up Time	<60 s	<60 s

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

ORDERING INFORMATION

Product Code	ELMO	ELMO High Power (fiber coupled version)
		ELMO High Power-FS (free space version)

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

