ELMO

Femtosecond Fiber Laser 1560 nm

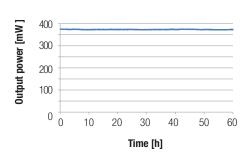


Menlo Systems' fiber-based femtosecond laser sources integrate the latest achievements in fiber technology into easy-to-use products. Menlo Systems' unique figure 9® mode locking technology results in reproducible and long-term stable operation. The ELMO with its all-fiber design guarantees excellent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

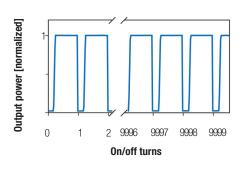
Amplitude noise

< 0.5% rms (over 24h)



Reproducibility

Identical and consistent laser performance



MenioSystems

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
- Pulse Width down to 45 fs.

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 RateFactory-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	ELMO HIGH POWER-FS
Center Wavelength	1560 nm ± 30 nm	1560 nm ± 30 nm	1560 nm ± 30 nm
Average Power	>10 mW	>180 mW	>330 mW
Pulse Width	<150 fs (typ. 100 fs)	<60 fs (typ. 45 fs)	<90 fs (typ. 70 fs)
Output Port	fiber-coupled	fiber-coupled	free space
Polarization	linear, PM fiber	linear, PM fiber	linear, p-polarized
Dispersion Management	dispersion can be factory set to achieve short pulses after 0.5-30m of external fiber	dispersion can be factory set to achieve short pulses after 0.5-30m of external fiber	external patch cord length of 0.5m to external compressor module**
Repetition Rate	100 MHz (50-100 MHz with VARIO)*	100 MHz (50-100 MHz with VARIO)*	100 MHz (50-100 MHz with VARIO)*
2nd Fiber-Coupled Seed Port		yes	yes
2nd High Power Output Port	available with MULTIBRANCH	available with MULTIBRANCH	available with MULTIBRANCH

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

REQUIREMENTS	ELM0	ELMO HIGH POWER	ELMO HIGH POWER-FS
Operating Voltage	12 VDC/1 A***	12 VDC/2 A***	12 VDC/2 A***
Power Consumption	10 VA	20 VA	20 VA
Operating Temperature	15 °C - 35 °C	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 /2.5 kg	195 x 95 x 75 mm ³ /2.5 kg
Compressor Dimensions/Weight	-	-	182 x 95 x 32 mm ³ /1 kg
Warm-Up Time	<60 s	<60 s	<60 s

^{***} External power supply for 100/115/230 VAC included.

ORDERING INFORMATION				
Product Code	ELMO	ELMO High Power	ELMO High Power-FS	

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





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^{**}Free space version with additional compressor module, versatile handheld compressor : module can also be mounted in s-polarized orientation. Standard external patch cord length 0.5m