ELMO 780

Femtosecond Fiber Laser 780 nm

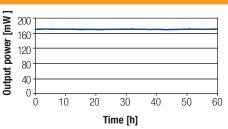


Menlo Systems' fiber-based temtosecond laser sources integrate the latest achievements in fiber technology into easy-to-use products. Menlo Systems' unique figure 9® mode locking technology results in reproducible and long-term stable operation. The ELMO 780 with its modular concept and its compact frequency doubling module is optimized for OEM integration and maximum versatility. The system is maintenance free and engineered for 24/7 operation.

PERFORMANCE DATA

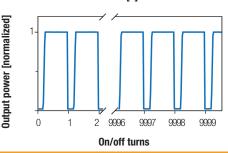
Amplitude noise

< 0.5% rms (over 24h)

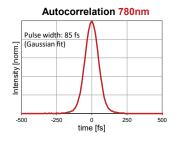


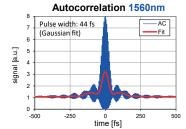
Reproducibility

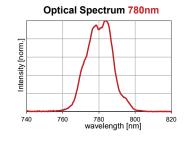
Identical and consistent laser performance

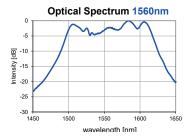


OPTICAL PERFORMANCE









MenioSystems

KEY SPECIFICATIONS

- Wavelength 780 nm
- Output Power >140 mW
- Pulse Length <100 fs
- Repetition Rate 100 MHz
- Smallest Footprint no external control unit
- Detachable SHG unit no heat dissipation in optical setup
- Additional wavelength 1560 nm fiber coupled with >180 mW and < 70 fs pulse length

APPLICATIONS

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

FEATURES

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

OPTIONS

VARIO User-Defined Repetition Rate

Factory-set value selectable in the 50-100 MHz range

MULTIBRANCH Additional Seed Ports

Multiple Ports with optional subsequent frequency conversion to cover multiple wavelengths

DISPERSION PRECOMPENSATION
Dispersion procompansation to

Dispersion precompensation to compensate dispersion of microscope objective and additional optics

ELMO 780



ELM0780 HP

Femtosecond Fiber Laser 780 nm

ELM0780

Center Wavelength 780 nm ± 10 nm

Average Power >75 mW (typ. 85 mW) >140 mW (typ. 165 mW)

Pulse Width <100 fs (typ. 85 fs)

Output Port free space

Polarization linear, p-polarized**

Dispersion Management pigtailed and versatile SHG module with up to 0.5 m optical fiber supply*

Repetition Rate pigtalled and versatile SHG module with up to 0.5 m optical liber supply 100 MHz (50-100 MHz with VARIO)*

Output Port at 1560 nm*** fiber coupled, 1560 nm, >180 mW (typ. 210 mW), <70 fs (typ. 50 fs) after up to 0.8 m detachable polarization maintaining patch cord

2nd Fiber-Coupled Seed Portyes2nd High Power Output Portavailable with MULTIBRANCH

REQUIREMENTS

SPECIFICATIONS

Operating Voltage	100/115/230 VAC ,12V external power supply included	
Power Consumption	20 VA	
Operating Temperature	15 °C - 35 °C	
Laser Head Dimensions/Weight	195 x 95 x 75 mm ³ / 2.9 kg	
SHG Dimensions/Weight	195 x 47 x 28 mm ³ / 0.5 kg	182 x 95 x 32 mm ³ / 1.0 kg
On/ Off Control	either via "Elmo Control" software with USB-connection or remote switching unit	
Warm-Up Time	<60 s	

ORDERING INFORMATION

Product Code ELMO 780	ELMO 780 HIGH POWER
-----------------------	---------------------

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







Menlo Systems GmbH T+49 89 189 166 0 sales@menlosystems.com Menlo Systems US T+1 303 635 6406 ussales@menlosystems.com **Menlo Systems Japan** T+81 907 409 20 21 jpsales@menlosystems.com Menlo Systems China T+86 21 6071 1678 chinasales@menlosystems.com



^{*}Please inquire for your specific combinations of average power, pulse duration and repetition rate. ** the versatile handheld SHG module can also be mounted in s-polarized orientation

^{***} Output wavelength changeable from 780 nm to 1560 nm with additional patch cord