

T-Light

Femtosecond Fiber Laser 1560 nm



The T-Light is a robust and compact turn-key femtosecond fiber laser. It offers exceptional performance for a variety of applications, from ultrafast spectroscopy to THz physics. The laser design is based on polarization (PM) maintaining fiber components, which is the key to stable operation. Menlo Systems' unique Figure 9 mode locking technology ensures reproducible and long-term stable operation. The result is a reliable fiber laser source, designed for 24/7 operation.

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KEY SPECIFICATIONS

- Fiber-Coupled Output with >100 mW Optical Power
- Pulse Length <90 fs after External PM Patch Cord

APPLICATIONS

- THz Generation & THz Physics
- Ultrafast Spectroscopy
- Material Characterization

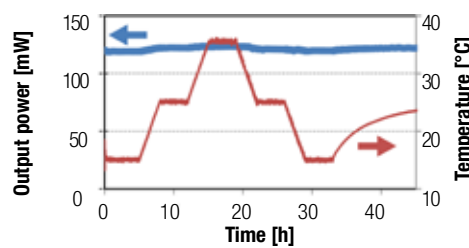
FEATURES

- Excellent Price/Performance Ratio
- Compact Design
- All-PM Solution
- Laser Output in Less than 60 Seconds
- Free Space or Fiber-Coupled Output
- Long Life Time

PERFORMANCE DATA

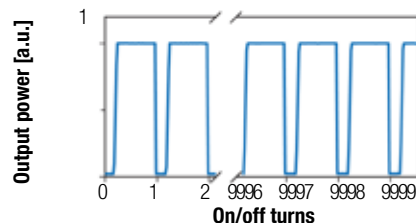
Amplitude noise

< 0.2% / °C peak to peak with temperature cycling from 15 to 35°C



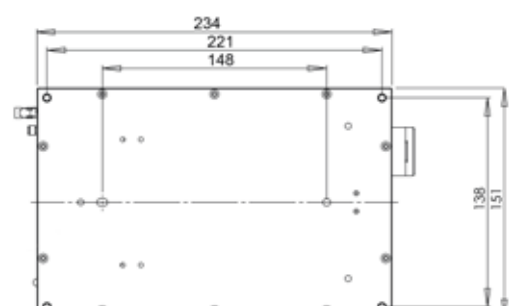
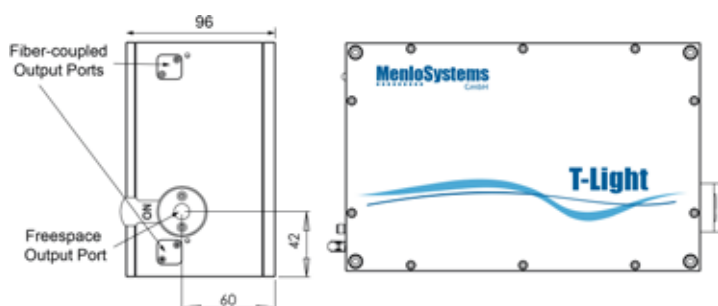
Reproducibility

Identical and consistent laser performance



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LASER HEAD



all sizes in mm

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SPECIFICATIONS

T-LIGHT

T-LIGHT FC

SPECIFICATIONS	T-LIGHT	T-LIGHT FC
Center Wavelength	1560 nm ± 20 nm	
Average Power	>120 mW	>100 mW
Pulse Width	<90 fs	<90 fs *
Repetition Rate	100 MHz	
Repetition Rate Instability	<1 ppm over 90 hours at constant temperature	
Output Port	free space	fiber-coupled (FC/APC)**
Polarization	linear, s-polarized	linear, PM fiber
Beam Height	60 mm	-

* After 2.5 m external PM patch cord. Inquire for other user-defined fiber lengths.

** Two fiber coupled output ports with user-defined splitting ratios available.

REQUIREMENTS

Operating Voltage	110/115/230 VAC
Frequency	50 to 60 Hz
Power Consumption	45 VA
Cooling Requirements	no water cooling is required
Laser Head Stabilization	actively temperature stabilized
Operating Temperature	15 °C - 35 °C
Laser Head Dimensions/Weight	151 x 234 x 96 mm ³ / 4.5 kg
Control Unit	integrated in laser head, remote control panel is included
Warm-Up Time	<60 s

ORDERING INFORMATION

Product Code	T-Light	T-Light FC
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Please call for pricing. Specifications are subject to change without notice. Custom modifications are available, please inquire.

MenloSystems



Invisible laser radiation
avoid exposure to beam
Class 3B laser

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