

# T-Light T-Light 780

## FEMTOSECOND FIBER LASER

1560 nm

780 nm

**New!** 70 fs @780 nm

T-Light, the robust turn-key femtosecond fiber laser offers exceptional performance for a variety of applications from multiphoton microscopy to micro material processing.

With its 24h/7d operation cycle the fiber laser is ideal for OEM integration. T-Light is the best choice if you look at a space critical and cost sensitive environment.

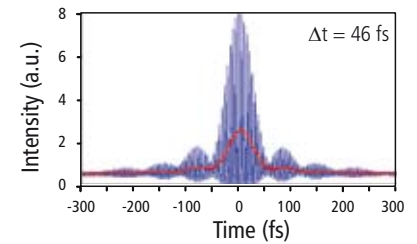
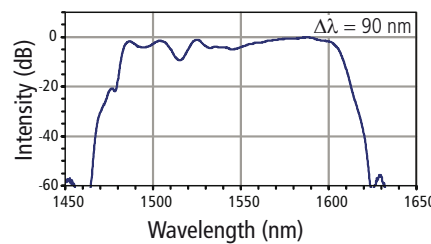
### FEATURES & BENEFITS

- Compact design
- Truly turn-key operation by self-starting mode-locking mechanism
- Free space or fiber-coupled output
- Long life time
- Excellent price/performance ratio

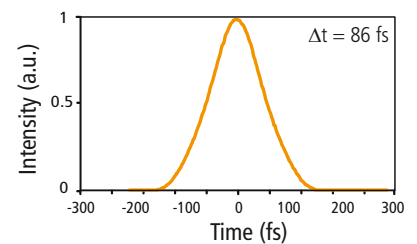
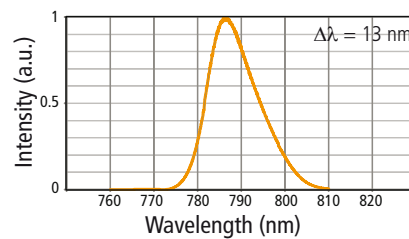
### APPLICATIONS

- Amplifier seeding
- Ultrafast spectroscopy
- Material characterization
- Microfabrication
- Bioimaging
- THz physics

### T-Light: SPECTRUM AND PULSE WIDTH



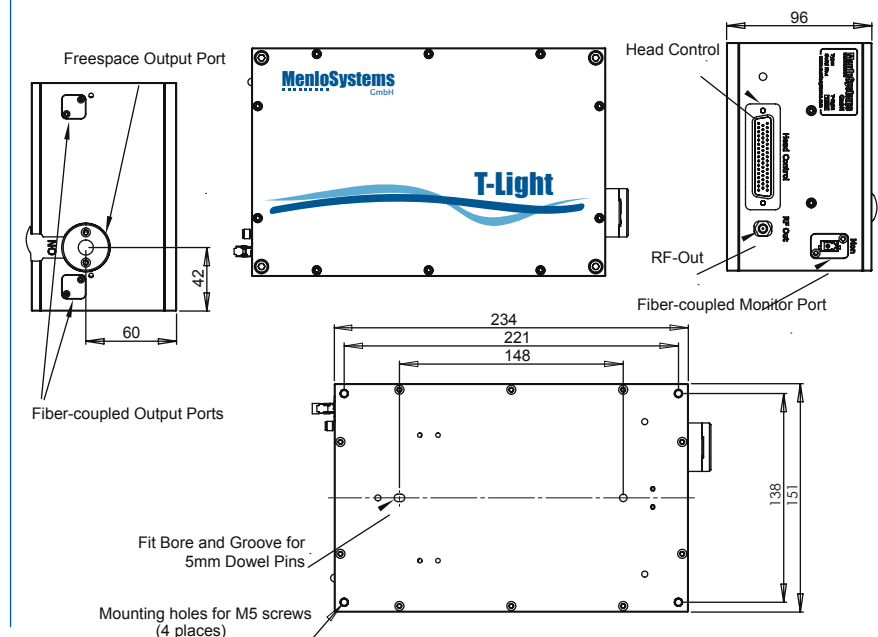
### T-Light 780: SPECTRUM AND PULSE WIDTH



T-Light 780 with Control Unit



T-Light and Light 780 Laser Head



# T-Light T-Light 780

## FEMTOSECOND FIBER LASER

### SPECIFICATIONS

	T-Light	T-Light 780
Wavelength	1560 nm +/- 20 nm	780 nm +/- 10 nm
Average Output Power	>150 mW	>65 mW
Pulse Width	<90 fs	100 - 120 fs
Compressed Pulse Width	N/A	<70 fs*
Spectral Width	>40 nm	10 - 12 nm
Repetition Rate	100 MHz +/- 1 MHz	
Repetition Rate Instability	<1 ppm	
OUTPUT PORT - standard	free space, linearly polarized	
Beam Height	60 mm	
OUTPUT PORT - optional configuration	fiber-coupled FC/APC**	N/A

\* T-Femtosecond pulse compressor unit.

\*\*Two fiber-coupled output ports, FC/APC, PM fiber, linearly polarized. Total average power >80 mW, pulse length <90 fs (after 1 m patch cord). Power ratio between the two ports is tunable.

### UTILITY AND ENVIRONMENTAL REQUIREMENTS

Operating Voltage	110/115/230 VAC
Frequency	50 to 60 Hz
Power Consumption	120 VA
Cooling Requirements	no water cooling is required
Laser Head Stabilization	actively temperature stabilized
Range of Operating Temperature	25 ± 6 °C
<b>Dimensions</b>	
Laser Heads	151 x 234 x 96 mm <sup>3</sup>
Control Electronics	448 x 132 x 437 mm <sup>3</sup>
<b>Weight</b>	
Laser Heads	5 kg
Control Electronics	10 kg
Length of Connecting Cable	2 m

### ORDERING INFORMATION (EUROPEAN PRICING)

T-Light	fs fiber laser, >150 mW @ 1560 nm	EUR 28,500
T-Light 780	fs fiber laser, >65 mW @ 780 nm	EUR 35,500
<b>OPTIONAL UNITS</b>		
T-Femtosecond	pulse compressor unit for pulse length <70 fs, transmission 90%	EUR 3,100

For OEM quantities please call for pricing. Prices and specifications are subject to change without notice.

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Invisible laser radiation  
avoid direct eye exposure  
Class 3B Laser