

Ultrafast Fiber Lasers

LightWire EO-FF50 • EO-FF200

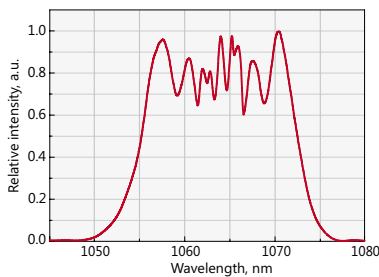
COMPACT FEMTOSECOND FIBER LASERS



- Pulse duration down to 130 fs
- Up to 200 mW output power
- Fiber delivery
- Compact, rugged design
- Low maintenance

APPLICATIONS

- Ultrafast spectroscopy
- Time-domain terahertz spectroscopy



Typical spectrum of EO-FF50 laser

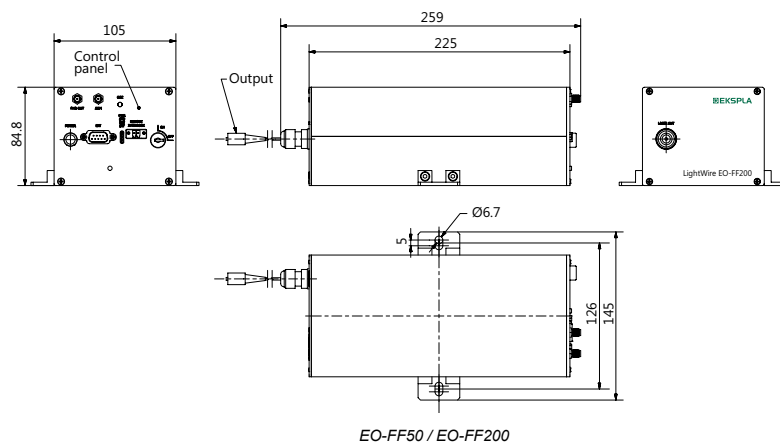
LightWire EO-FF50 is a cost effective turn-key femtosecond fiber laser with fiber delivery of the pulses all the way to your sample. Based on a well-established MOPA scheme, LightWire EO-FF50 model laser ensures a reliable hands free operation due to its all-in-fiber construction.

LightWire EO-FF200 is a higher power and shorter pulse version of the sister model from still very compact and cost effective package. It is especially suited for nonlinear microscopy applications.

SPECIFICATIONS *

Model	LightWire EO-FF50	LightWire EO-FF200
Central wavelength	1064 nm	
Compressed pulse duration	< 160 fs	< 130 fs
Output power	> 40 mW	> 200 mW
Oscillator pulse repetition rate	30 ± 2 MHz	
Pulse repetition rate with pulse picker	30 kHz – 30 MHz	
Pulse energy without pulse picker	> 1 nJ	> 5 nJ
Pulse energy with pulse picker	> 0.5 nJ	> 2.5 nJ
Bandwidth (typical)	15 nm	30 nm
Optical output	0.3 m fiber with FC/APC connector and collimator	
Beam quality	M ² < 1.5	
Pulse train monitoring	photodiode output	
Dimensions (L×W×H)	228×105×85 mm	
Weight	< 2 kg	< 3 kg
Power supply (AC/DC adapter included)	100–240 V, 50–60 Hz AC	
Operating conditions	10–30 °C, humidity – not condensing	

* Due to continuous improvement all specifications are subject to change without notice.



RELATED PRODUCTS

Laser Safety Eyewear
See page 1.16.

