

LightWire
EO-FP10 • EO-FP100

COMPACT PICOSECOND FIBER LASERS



- 2 ps or 8 ps pulse duration
- 1064 nm or 1030 nm output wavelength
- 30 MHz repetition rate
- Up to 60 mW output power
- Spectral bandwidth close to transform limit

APPLICATIONS

- Seeding of solid state and fiber amplifiers
- Metrology

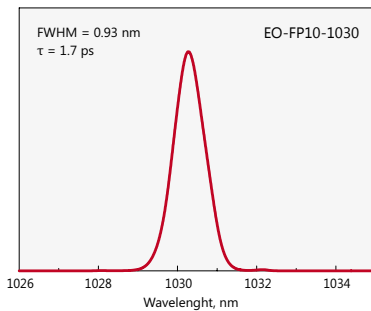
LightWire EO-FP200 is the highest power version in FP family. Integrated pulse picker and control of nonlinearity allows to achieve transform limited pulses with the energy up to 100 nJ directly from the fiber making this model perfect choice for seeding linear Nd doped solid state ampli-

fiers. Due to high peak power (12 kW) of the emitted picosecond pulses, EO-FP200 alone or with an optional harmonic module can be also used as a source for ultrafast metrology applications like gated Raman spectroscopy and fluorescence life-time measurements.

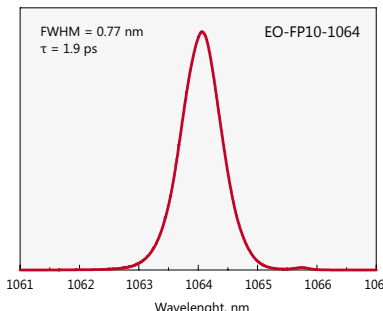
SPECIFICATIONS *

Model	LightWire EO-FP10	LightWire EO-FP100
Central wavelength	1030 nm or 1064 nm tunable ± 0.2 nm	1064 nm tunable ± 0.2 nm
Pulse duration	< 2 ps	< 7 ps
Bandwidth	< 1 nm	< 0.4 nm
Oscillator pulse repetition rate	30 \pm 2 MHz	
Pulse repetition rate with pulse picker	30 kHz – 30 MHz	
Output power	> 2 mW at 1064 nm > 1 mW at 1030 nm	> 60 mW
Pulse energy without pulse picker	> 70 pJ at 1064 nm > 35 pJ at 1030 nm	> 2 nJ
Pulse energy with pulse picker	50% throughput	
Polarization	linear, >100:1 extinction	
Optical output	fiber with FC/APC connector and collimator	
Beam quality	$M^2 < 1.1$	
Pulse train monitoring	photodiode output	
Laser head dimensions (L \times W \times H)	228 \times 104 \times 85 mm	
Weight (laser head)	< 2 kg	
Power supply	100–240 V, 50–60 Hz AC	
Operating conditions	10–30 °C, humidity – not condensing	

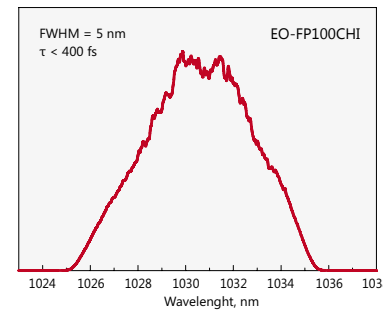
* Due to continuous improvement all specifications are subject to change without notice.



1030 nm 1.7 ps pulses



1064 nm 1.9 ps pulses



Chirped 9 ps pulses at 1030 nm. Compressible to <400 fs

Typical spectra of different EO-FP10 and EO-FP100CHI laser configurations

RELATED PRODUCTS

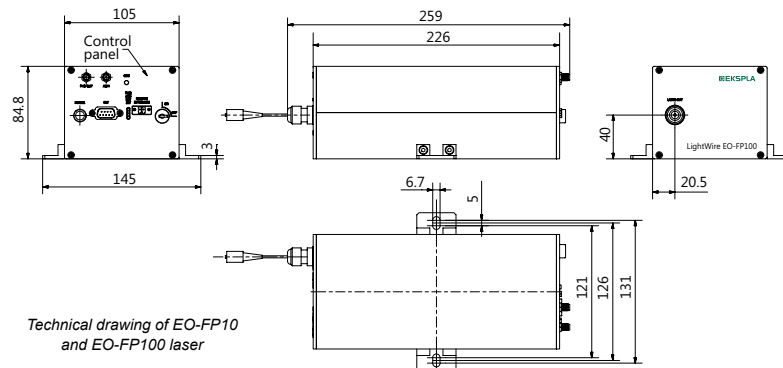
Laser Safety Eyewear

See page 1.16.



Visualizers

See page 1.16



Technical drawing of EO-FP10 and EO-FP100 laser