

# Femtosecond Fiber Laser

## LIGHTWIRE FF3000 SERIES



### FEATURES

- Up to 3 W output power
- <250 fs pulse duration
- $M^2 < 1.3$  beam quality
- 1064 nm central wavelength
- Low maintenance

### APPLICATIONS

- Ultrafast spectroscopy
- Time domain terahertz spectroscopy
- Nonlinear microscopy
- Photopolymerization
- Pumping of femtosecond parametric systems

For the applications where power or pulse energy of the standard femtosecond oscillators is not enough but high repetition rate is desired, **LightWire FF3000 series laser** provides optimal solution. Higher pulse energy can give your non-linear

experiments a required boost to achieve better signal to noise ratio. The laser comes with pulse duration and dispersion pre-compensation adjustment for the precisely tailored femtosecond pulses at your sample.

### SPECIFICATIONS

Model	LightWire FF3000
Central wavelength	1064 nm
Compressed pulse duration	<250 fs
Pulse duration adjustment	250 fs – 1 ps
Output power	>3 W
Pulse energy	70 nJ
Dispersion pre-compensation	variable in a range $\pm 140000 \text{ fs}^2$
Optical output	collimated beam
Pulse repetition rate	40 MHz <sup>1)</sup>
Beam quality	$M^2 < 1.3$
Pulse train monitoring	electrical SMA connector
Synchronization	TTL signal with low jitter (<20 ps)
Dimensions (D×W×H)	364×271×192 mm (laser head); 250×200×192 mm (compressor)
Weight	<10 kg (laser head); <5 kg (compressor)
Power supply	100-240 V, 50-60 Hz AC
Operating conditions	10-40 °C, humidity – not condensing

<sup>1)</sup> Other repetition rates are available on request