

# LightWire FF200

Compact  
Femtosecond  
Fiber Laser



## FEATURES

- ▶ 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

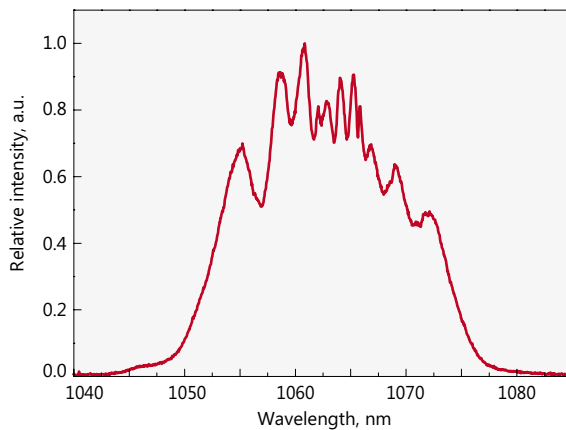
LightWire FF200 is a cost effective turn-key femtosecond fiber laser with fiber delivery of the pulses all the way to your sample. Based on a well-established MOPA scheme,

LightWire FF200 model laser due to its all-in-fiber construction ensures a reliable hands free operation in very compact package.

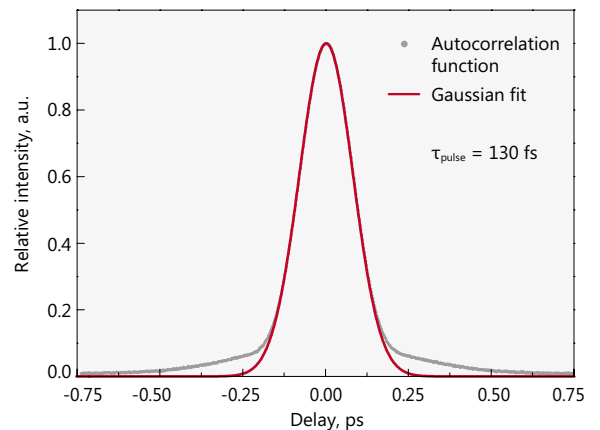
## OPTIONS

- ▶ Pulse picker option  
[code: FF200-AOM]

## PERFORMANCE



Typical spectrum from FF200 laser



Typical autocorrelation from FF200 laser

**SPECIFICATIONS** <sup>1)</sup>

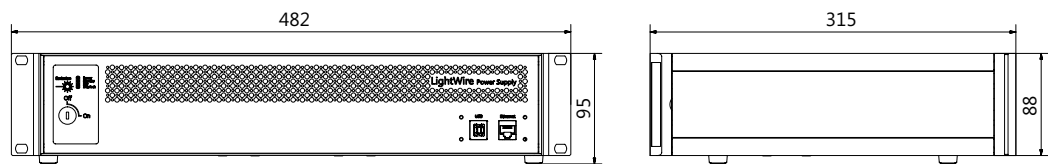
Model	LightWire FF200
Central wavelength	1064 nm
Compressed pulse duration	< 130 fs
Output power	> 200 mW
Oscillator pulse repetition rate	40 ± 2 MHz
Pulse repetition rate with pulse picker	20 kHz – 40 MHz (PRR = PRR <sub>osc</sub> / N, N = 1, 2, 3, ..., 2000)
Pulse energy (without/with pulse picker)	> 5 nJ / > 2.5 nJ
Bandwidth (typical)	30 nm
Optical output	FC/APC connector <sup>2)</sup> or collimated beam (option)
Umbilical	3 m length armored cable Ø5 mm
Beam quality	M <sup>2</sup> < 1.5
Pulse train monitoring	TTL output
Control interface	USB, CAN, RS232, LAN, WLAN
Dimensions of control unit (L × W × H)	315 × 450 × 95 mm (19" rack mountable)
Dimensions of collimator unit (L × W × H)	164 × 73 × 75 mm
Weight	< 10 kg
Power supply	100–240 V, 50–60 Hz AC
Operating conditions	10–30 °C, humidity – not condensing



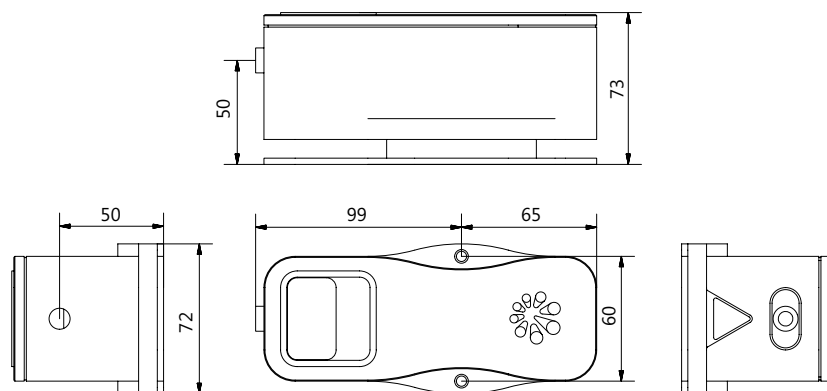
<sup>1)</sup> Due to continuous improvement all specifications are subject to change without notice.

<sup>2)</sup> The connector is not suitable to connect with single mode fiber.

**DRAWINGS**



LightWire FF200 control unit outline drawing



LightWire FF200 laser collimator unit outline drawing