



Irybus FL Product Line

Irybus-FL-300 femtosecond fiber laser series

Key features

- Wavelength 1030 nm - 1040 nm
- Bandwidth < 20 nm
- Femtosecond pulse-widths
- Maintenance-free
- Air cooled
- OEM applications



FL-300 is a powerful femtosecond fiber laser with high frequency pulses. Amplifier compact size, no need to make adjustments when installed and air-cooling system allow to use FL-300 laser for industrial (OEM) and scientific purposes. Laser characteristics are optimal to perform ophthalmic surgery, spectroscopy and micromachining. FL-300 laser consists of two units (an oscillator and an amplifier), which are connected with optical and electrical interfaces, and the laser is shipped with all the technical documentation and controlling software. Oscillator unit may be used as a master oscillator for ultra narrow laser pulses with single-mode fiber output, if needed.

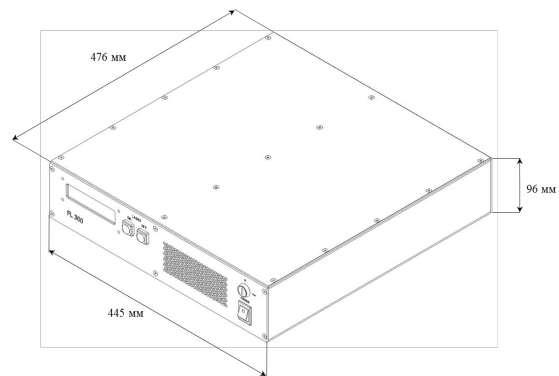
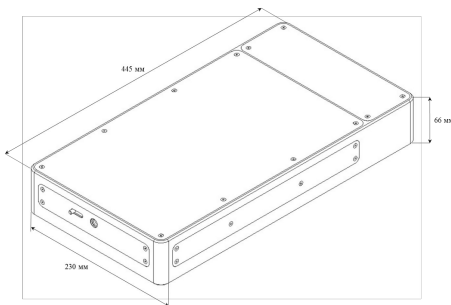
Applications

- Tissue Ablation
- Ophthalmology
- Material processing
- Two-photon polymerization
- Harmonic generation
- Multiphoton microscopy
- Non-linear and "pump-probe" spectroscopy
- Optical coherent tomography
- Fundamental study

Irybus-FL-300 specification

Parameter	Value	Unit
Central wavelength	1030, 1035, 1040	nm
Bandwidth (FWHM)	< 20	nm
Average output power	1 - 2	W
Nominal Pulse Energy	1 - 2	μJ
Power stability	< 1.5 (8 hours)	% rms
Max repetition rate	1	MHz
Pulse Duration	< 350	fs
Peak power	> 5.7	MW
Polarization	Linear	
Optic output	Collimated	
Beam Size (V x H)	< 2.5	mm
Beam Divergency	< 1	mrad
Cooling	Forced air	
Operating voltage	220 - 240 V, 50 - 60 Hz, Single Phase	mm
Dimensions (WxHxL)	Control Unit: 445 x 96 x 476 Head: 230 x 66 x 445	
Weight	20	kg

- Optromix fiber systems can be customized by request.
- Optromix provides 1 year warranty for all systems.



Information in this document is a subject to change without notice.

