

Femtosecond laser FL-300



Applications

- Ophthalmology
- Material processing
- Multiphoton polymerization
- Microstructures fabrication
- Multiphoton microscopy
- Harmonic generation
- Femtochemistry
- Fundamental studies

Key Features

- Compact all-fiber femtosecond laser
- Wavelength 1035 nm
- Pulse duration <300 fs
- Nominal pulse energy up to 2 μ J
- Air-cooled
- Maintenance-free



Femtosecond laser FL-300

TYPE	FL-300 plus	FL-300
Central wavelength	1035 nm	
Bandwidth ¹	<20 nm	
Average output power	1-2 W	
Pulse energy	<2 μ J	40-70 nJ
Repetition rate	1-30 MHz	30 MHz
Pulse duration	<300 fs	
Power stability	<2 (8 hours)% rms	
Beam size ²	<2.5 mm	
Beam divergency	<1.5 mrad	
Polarization	linear	
Spatial mode	TEM00	
Cooling	forced air	
Operating voltage	220 V \pm 10%, 50/60 Hz, single phase	
Power consumption	<200 W	
Environment	20-28 $^{\circ}$ C	
Laser Unit Size	483 x 138 x 411 mm	
Head Size	235 x 60 x 503 mm	
Weight	20 kg	

1) FWHM

2) the $1/e^2$ level of the radiation intensity maximum value

