



FS-G-1030/1~100  $\mu$  J/ 1~10W

## FEMTOSECOND PULSED LASER AT 1030nm

Solid-state Femtosecond pulsed laser at 1030nm is made features of short pulse duration, high pulse energy, high stability and good beam quality, which is used in sapphire marking, ceramic cutting, semiconductor cutting, film scribing, physics experiment, etc.



### SPECIFICATIONS

Wavelength (nm)	1030 $\pm$ 5
Average power (W)	10 (10W@200kHz); 5(5W@50kHz)
Single pulse energy ( $\mu$ J)	50 (50 $\mu$ J @200kHz); 100 (100 $\mu$ J @50kHz)
Rep. rate (MHz)	50kHz-1MHz
Pulse duration (fs)	<800fs or 800fs-10ps adjustable
Peak power (MW)	62.5MW @200kHz; 125MW@50kHz
Ave power stability (over 4 hours)	<1%
Warm-up time (minutes)	<10
Transverse mode	TEM <sub>00</sub>
Beam quality(M <sup>2</sup> )	<1.3
Beam divergence, full angle (mrad)	<1.0
Beam diameter at the aperture (1/e <sup>2</sup> ,mm)	<3
Polarization ratio	>100:1
Beam height from base plate (mm)	On request
Cooled method	Water cooled
Operating temperature (°C)	15~35
Power supply (220/110VAC)	On request
Expected lifetime (hours)	10000
Warranty period	1 year



FS-G-1030/100-600  $\mu$  J/ 10-40 W

## FEMTOSECOND PULSED LASER AT 1030nm

Solid-state Femtosecond pulsed laser at 1030nm is made features of short pulse duration, high pulse energy, high stability and good beam quality, which is used in sapphire marking, ceramic cutting, semiconductor cutting, film scribing, physics experiment, etc.



### SPECIFICATIONS

Wavelength (nm)	1030 $\pm$ 5
Average power (W)	40 (400W@200kHz); 30(100W@500kHz)
Single pulse energy ( $\mu$ J)	200 (200 $\mu$ J @200kHz); 600 (600 $\mu$ J @50kHz)
Rep. rate (MHz)	50kHz-1MHz
Pulse duration (fs)	<800fs or 800fs-10ps adjustable
Peak power (MW)	250MW @200kHz; 750MW@50kHz
Ave power stability (over 4 hours)	<1%
Warm-up time (minutes)	<10
Transverse mode	TEM <sub>00</sub>
Beam quality(M <sup>2</sup> )	<1.3
Beam divergence, full angle (mrad)	<1.0
Beam diameter at the aperture (1/e <sup>2</sup> ,mm)	~3
Polarization ratio	>100:1
Beam height from base plate (mm)	On request
Cooled method	Water cooled
Operating temperature (°C)	15~35
Power supply (220/110VAC)	On request
Expected lifetime (hours)	10000
Warranty period	1 year