

HQF Series Lamp-pumped Picosecond Laser with Built-in Energy Detector



Key Features

- ◆ Single pulse energy up to 500mJ
- ◆ Peak power up to 1.5GW
- ◆ Repetition rate up to 10Hz
- ◆ Excellent beam homogeneity
- ◆ Great stability
- ◆ Compact design, sealed package, high reliability

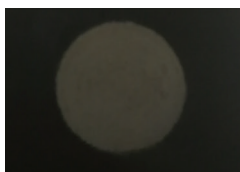
Applications

- Biomedical applications
- Laser ranging
- Differential absorption lidar
- Particle image velocimetry (PIV)
- Laser shock processing (LSP)
- Laser-induced breakdown spectroscopy (LIBS)
- Laser-based ultrasound detection
- Laser-induced fluorescence (LIF)
- Tissue ablation
- Non-linear optics

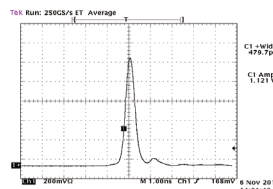
Technical Specifications

Wavelength (nm)	1064 / 532	
Repetition rate (Hz)	1~10	
Pulse energy (mJ)	500mJ@1064nm, 250mJ@532nm	
Energy stability RMS	<2%@1064nm, <3%@532nm	
Other parameters		
Pulse width FWHM (ps)	300	
Beam full divergence (typ., mrad)	Horizontal @1/e ²	<3
	Vertical @1/e ²	<3
Beam diameter (mm)	~11	
Spatial profile	Top hat	
Polarization direction	Vertical	
Electrical supply	220V/110V±10%AC, 50/60Hz	
Power consumption	<800W	
Environment requirements	temperature 18~35°C, humidity <75%	

1. All the data in the above table are the typical values obtained from the tests at room temperature of 25°C, and the final data is subject to the final test report.



Beam profile of the amplified pulse

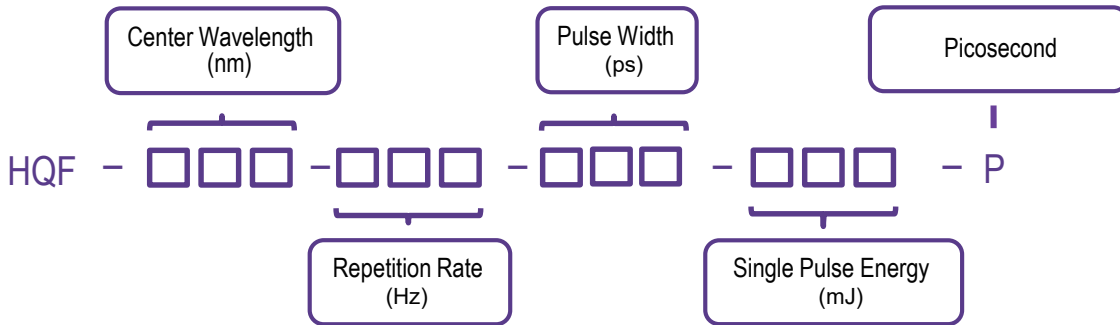


Typical pulsewidth

Order Information

Wavelength (nm)	Part Number	Repetition Rate (Hz)	Pulse Width (ps)	Single Pulse Energy (mJ)
1064/532	HQF-1064/532-10-300-500/250-P	1~10	300	500@1064 250@532

Part Numbering Schema



Mechanical Drawings (in mm)

