HQF Series Lamp-Pumped Long Pulse 2940nm Er:YAG Laser

HQF series lamp pumped long pulse 2940nm Er:YAG laser consists of a laser module unit, energy detection module. This laser emits near-to-mid-infrared light (2940nm Erbium laser), which coincides with the strongest absorption peak of hydroxyapatite (OH^-) and water molecules. This lamp pumped long pulse laser delivers high energy output, exceptional stability and superior beam uniformity, making it an ideal solution for medical and aesthetic applications. Optional accessories include output fibers, articulated arms, control panels, power supplies, and water chillers.

Key Features

- Maximum single pulse energy up to 1000mJ
- Built-in energy detector
- Built-in shutter

Applications

Periodontics

Implantology

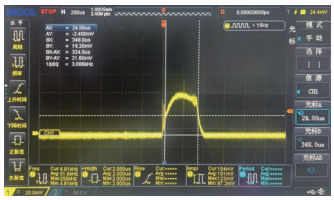
Skin Rejuvenation

Technical Specifications

Wavelength (nm)	2940
Single Pulse Energy (mJ)	500mJ@20Hz, 1000mJ@10Hz
Pulse Width (μs)	50~1000
Power (W)	9
Other Optical & System Parameters	
Beam Mode	Multi-mode
Output Method	Articulated arm output / Fiber output
Laser energy stability (St)	±20% max.
Laser energy reproducibility (Rp)	±20% max.
Aiming Beam Wavelength	532±20nm
Aiming Beam Power	>2mW
Working Conditions	Ambient temperature: 10°C~30°C
	Relative humidity: 10%~73% (non-condensing)
	Atmospheric pressure: 86kPa~106kPa
	Power supply: 220V/110V±10%AC, 50/60Hz

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

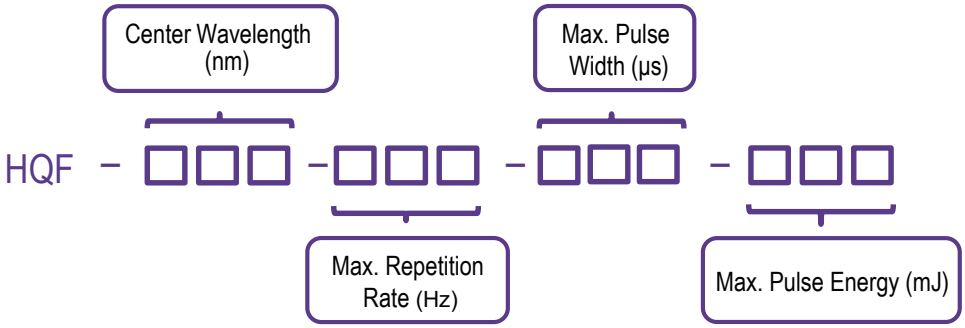


Typical pulse (2940nm)

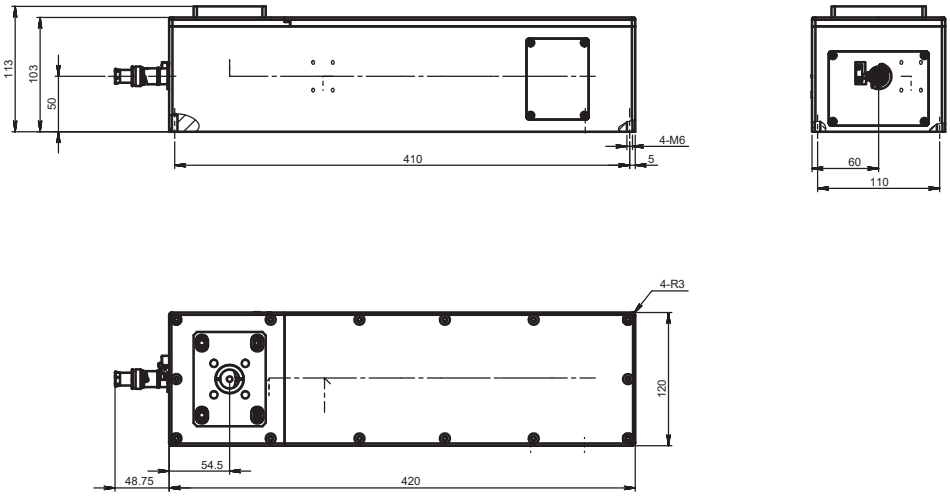
Order Information

Wavelength (nm)	Part Number	Max. Repetition Rate (Hz)	Max. Pulse Width (μs)	Max. Pulse Energy (mJ)
2940	HQF-2940-20-1000-1000	20	1000	1000

Part Numbering Schema



Mechanical Drawings (in mm)



Compatible Accessories Available

Articulated arm

power supply