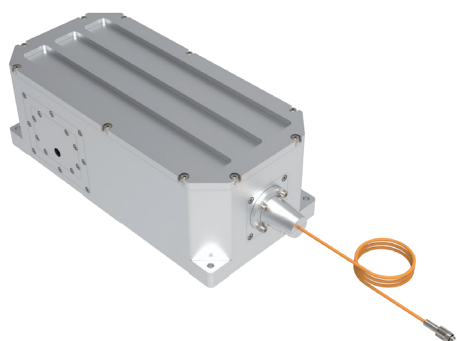


HQE Series Diode-Pumped Solid-State Long-Pulse Laser



The HQE Series Diode-Pumped Long-Pulse 2940 nm Er:YAG Laser consists of a laser module unit and an energy detection module. It delivers an output wavelength of 2940 nm. Adopting self-developed high-peak-power diode lasers as the pump source, it is capable of high-energy laser output with superior beam quality. Optimized resonator design enables compact footprint. It finds broad applications in the biomedical field. Customization for free-space output is available. Supporting accessories including light-guide arm, control display, power supply and water chiller can be provided.

Key Features

- ◆ Power: 5 W
- ◆ Repetition rate up to 50 Hz
- ◆ Excellent beam spot uniformity
- ◆ Superior stability
- ◆ Compact structure with sealing treatment, high reliability

Applications

Analytical instruments
Biomedical
Materials processing

Technical Specifications

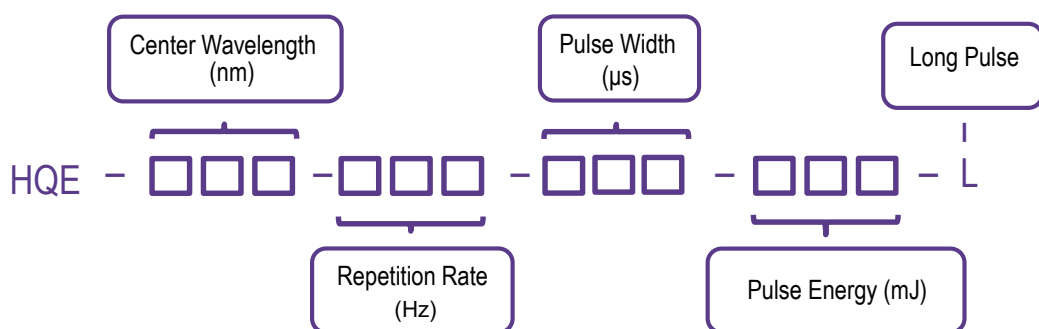
Optical Parameters		
Wavelength (nm)		2940
Wavelength tolerance (nm)		±5
Max. repetition rate (Hz)		50
Max. output Power (W)		5
Pulse energy (mJ)		250@20Hz
Pulse width (μs)		80~300
Energy stability (RMS)		<3%
Beam full divergence (typ., mrad)	Horizontal @1/e ²	4
	Vertical @1/e ²	6
Beam NA		<0.2 (Core diameter 450 μm)
Cooling		Water cooled
Output mode		Fiber delivery
System Parameters		
Supply power voltage		100~240 VAC, 50/60 Hz
Power consumption (W)		500
Laser head dimensions (W×H×L,mm)		320×150×114
Operating environment		Temperature < 30 °C, Humidity < 60%

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.

Order Information

Wavelength(nm)	Part Number	Repetition	Pulse Width(μs)	Pulse Energy(mJ)
2940	HQE-2940-20-200-250-L	20	200	250

Part Numbering Schema



Mechanical Drawings (in mm)

