

Pulsed Q-Switched Nd:YAG Laser Model LE-QS

EDUCATION RESEARCH TESTING

Features

- Low price
- Compact design
- Transparent case
- Frequency doubling and tripling
- Remote control and RS 232 serial interface
- Five educational lab works in laser engineering and nonlinear optics are available
- University discount



Applications

- Educational and scientific laboratories
- Harmonics generation; raman scattering
- Pumping of tunable dye lasers
- LIF or LIB Spectroscopy



Technical information and Specifications

Laser Head	
Energy per Pulse(at 5Hz)	
Long Pulse Mode	
1064 nm	> 65 mJ
Short Pulse Mode	
1064 nm	> 30 mJ
532 nm	> 10 mJ
Pulse to Pulse Energy Stability (for 95% of pulses at 1064 nm)	< $\pm 3\%$
Pulse Duration(in short pulse mode)	< 12 ns
Pulse Repetition Rate:	0.1-10 Hz
Beam Divergence	< 1.0 mrad
Beam Diameter:	2 mm
Spatial Beam Profile	TEM ₀₀
Power Supply	
Pulse Energy	1-50 J
Pulse Duration	< 150 μ s
Repetition Rate	0.1-10 Hz
Electrical Requirements	Single phase; 110; 220 VAC +/- 10%; 50-60 Hz; 1000W MAX.

The cooling system(optional) uses water-to-air or water-to-water cooling

