

LS-2147/2 Pulsed Nd:YAG Laser



LOTIS TII model LS-2147/2 combines the compactness of LS-2134 laser with the increased energy and small divergence due to the intracavity telescope and special double rod laser pumping chamber which allows operation in the mode of oscillator-amplifier with a single power supply and a cooling system.

Using the unique laser chamber design reduces undesired parasitic oscillations that can limit output energy.

The closed and rigid folded structure of laser emitter provides small dimensions, stable and dust free operation of laser components.

There is no need for external water supply since the cooling system is totally self-contained with water-to-air heat exchanger.

Specification

Parameter	Value	
Energy, mJ	1064 / 532 nm	850 / 470
Pulse duration (FWHM at 1064 nm), ns	16–18	
Pulse repetition rate, Hz	1–10	
Beam divergence, mrad	≤0.7	
Beam diameter, mm	≤8.0	
Jitter*, ns	±1.5	
Energy stability** (1064 nm), %	±3.0	
Size L x W x H, mm (Weight, kg)	Laser head	876 x 236 x 136 (33.0)
	Power supply	363 x 364 x 192 (16.5)
	Cooling system	363 x 364 x 280 (15.5)
	Remote control	105 x 175 (0.5)
Power requirements	Single phase, 220±20 V, 50–60 Hz, 750 W	

* with respect to external trigger of Q-switch

** shot to shot for 99% of pulses

