

Symphotic TII Corporation

Laser Products Catalog, 2007



“Take a Closer Look”

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Specifications are as of October, 2006 and subject to change without notice. 80040DC

Q-switched Nd:YAG Lasers: LS-2130, LS-2131, LS-2132, LS-2134, LS-2135



The LOTIS TII pulsed Nd: YAG lasers LS-2130–LS-2135 are designed to provide years of trouble free operation in even the most demanding environments.

Our unique folded resonator allows these lasers to feature compact size and highly stable output characteristics. The ruggedly mounted optics are virtually immune to the thermal and physical shocks. Although these lasers are compact in size, all components and service parts are easily accessible. The diffuse close-coupled pumping chamber provides for efficient and uniform pumping of laser rod.

As with all our lasers, these compact lasers have been designed for quick and easy interchange of the flashlamp without readjustment of the laser resonator. The flashlamp operates in idle mode to provide stability and long life. The cooling system consists of hermetic water pump, flow, temperature and level sensors and water-to-air heat exchanger. A commercial off the shelf water purification filter is used for long-term operation.

Key Features:

- Repetition rate: 1 to 20 Hz, Small divergence
- Compact size
- Menu-driven remote control
- RS-232C Interface
- Rugged and reliability



Specifications (as of August, 2006 and subject to change)

Parameter	LS-2130	LS-2131	LS-2132	LS-2134	LS-2135
Energy					
1064 nm	50 mJ	100 mJ	180 mJ	250 mJ	340 mJ
532 nm	25	50	100	150	170
Pulse duration (1064 nm) (FWHM)	9–11 ns	9–11 ns	10–12 ns	10–12 ns	10–12 ns
Pulse repetition rate	1–20 Hz	1–20 Hz	1–15 Hz	1–15 Hz	1–10 Hz
Beam divergence	1.0 mrad	1.5 mrad	2.0 mrad	2.5 mrad	2.5 mrad
Beam diameter, mm	3 mm	4 mm	5 mm	6.3 mm	8 mm
Jitter	±1.0 ns(w.r.t external trigger of Q-switch)				
Energy Stability,	±2.5 % (shot to shot for 99 % of pulses)				
Dimensions	LxWxH, mm (weight, kg)			LxWxH, in. (weight, lbs)	
Laser Head	567 x 152 x 90 (9.5)			22.3 x 6 x 35.5 (21)	
Power Supply	363 x 364 x 192 (15.5)			14.3 x 14.3 x 7.6 (34)	
Cooling System	363 x 364 x 192 (12.5)			14.3 x 14.3 x 7.6 (27.5)	
Remote Control	130 x 180 (0.5)			5 x 7 (1)	
Power requirements	Single phase 220±20 V, 50–60 Hz, 500 W				