

LS-2136 Pulsed Nd:YAG Laser



LOTIS TII LS-2136 laser is a high repetition rate Q-switched Nd:YAG laser emitting at the fundamental (1064 nm) and second (532 nm) harmonic.

The telescopic stable resonator has given the benefits of uniform beam quality, high energy and low beam divergence. The intracavity mode controlling telescope compensates the thermal lensing of the Nd:YAG rod and limits the irreducible beam divergence of laser by decreasing the transverse mode content of the beam.

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

The digital display remote control can be programmed to run in either auto or manual modes. It gives you fingertip control of all laser functions.

Specification

Parameter	Value	
Energy, mJ	1064 / 532 / 355 / 266 nm	140 / 75 / 25* / 18*
Pulse duration (FWHM at 1064 nm), ns		15–18
Pulse repetition rate, Hz		1–50
Beam divergence (full angle for 86 % of energy), mrad		0.7
Beam diameter, mm		≤5.0
Jitter**, ns		±1.5
Energy stability*** (1064 nm), %		±3.0
Size L x W x H, mm (Weight, kg)	Laser head	815 x 206 x 136 (21.0)
	Power supply	446 x 449 x 177 (20.0)
	Cooling system	446 x 449 x 266 (23.0)
	Remote control	105 x 175 (0.5)
Power requirements		Single phase, 220±20 V, 50–60 Hz, 1500 W

* with Harmonic Generator Assembly HG-TF

** with respect to external trigger of Q-switch

*** shot to shot for 99% of pulses

