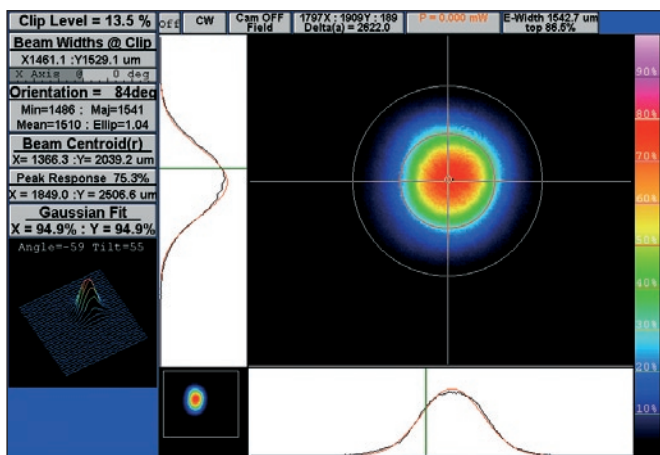


LS-2139 Pulsed Nd:YAG Laser



The unique design of power supply and laser cavity provides high output parameters and reliability. The totally self-contained cooling system with water-to-air heat exchanger allows laser operation in different environment conditions.

LOTIS TII LS-2139 utilizes a special stable resonator configuration providing thermal lens and birefringence



Beam profile (1064 nm) in far field.

compensation. All cavity spaces are sealed, thus preventing the encroaching of harmful contamination onto optical surfaces.

Controls are available either through a menu-driven remote control or via RS232 interface. All parameter sets can be stored and recall for different operation modes.

Specification

Parameter		Near TEM ₀₀	TEM ₀₀
Energy, mJ	1064 / 532 nm	75 / 40	45 / 25
Pulse duration (FWHM at 1064 nm), ns		15–18	15–18
Pulse repetition rate, Hz		100	100
Beam divergence (full angle for 86 % of energy), mrad		≤0.7	≤0.5
Beam diameter, mm		≤4.0	≤2.5
Jitter*, ns		≤±1.5	≤±1.5
Energy stability** (1064 nm), %		≤±3.0	≤±2.5
Size L x W x H, mm (Weight, kg)	Laser head	815 x 206 x 136 (22.0)	
	Power supply	446 x 449 x 177 (22.0)	
	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, 2000 W	

* with respect to external trigger of Q-switch

** shot to shot for 99% of pulses

