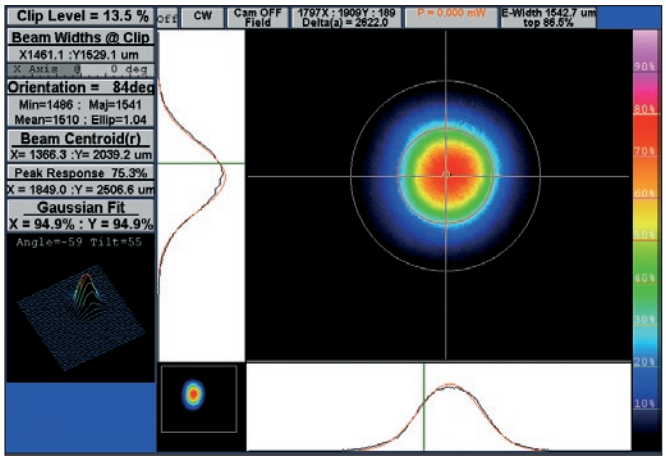
LS-2139 Pulsed Nd:YAG Laser

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 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.

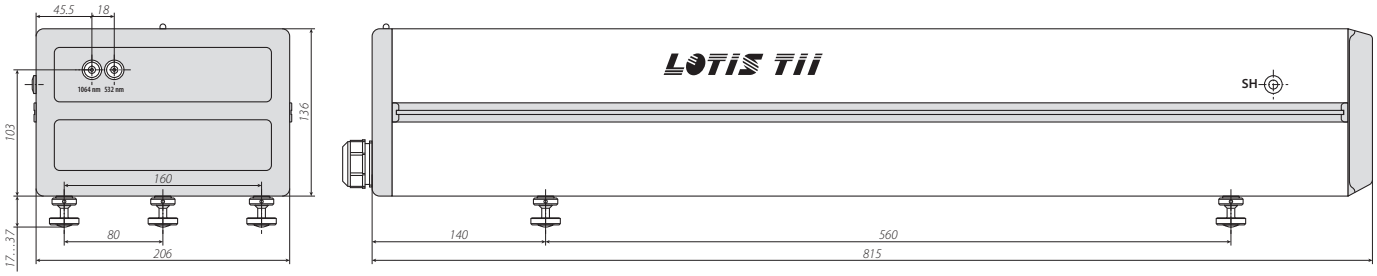


Beam profile (1064 nm) in far field.

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 repetion 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



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