

# LS-2138OPO Pulsed Nd:YAG Laser with Increased Energy



*LOTIS TII LS-2138 utilizes all advantages of our LS-2136 and LS-2137 lasers: pulse repetition rate up to 50 Hz, small divergence, output energy up to 220 mJ, friendly used operation.*

Double rod laser chamber and rigid folded laser resonator with intracavity telescope make available stable, reliable, and high efficiently operation. Single power supply and self-contained cooling unit with water-to-air heat exchanger are used in LS-2138.

As well as external trigger and synchronization facilities, all the laser functions are controlled via compact remote control. This features a scrolling menu with an adjusting thumbwheel, clear LCD and audible tone to indicate changed settings.

## Specification

Parameter	Value	
Energy, mJ	1064 / 1577 nm	200 / 30
Pulse duration (FWHM at 1064 nm), ns	12–18	
Pulse repetition rate, Hz	50	
Beam divergence (full angle for 86 % of energy), mrad	≤1.5	
Beam diameter, mm	≤5.0	
Jitter*, ns	±1.0	
Energy stability** (1064 nm), %	±3.0	
Size L x W x H, mm (Weight, kg)	Laser head	785 x 235 x 140 (29.0)
	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, 1000 W	

\* with respect to external trigger of Q-switch

\*\* shot to shot for 99% of pulses

