LS-2138 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.

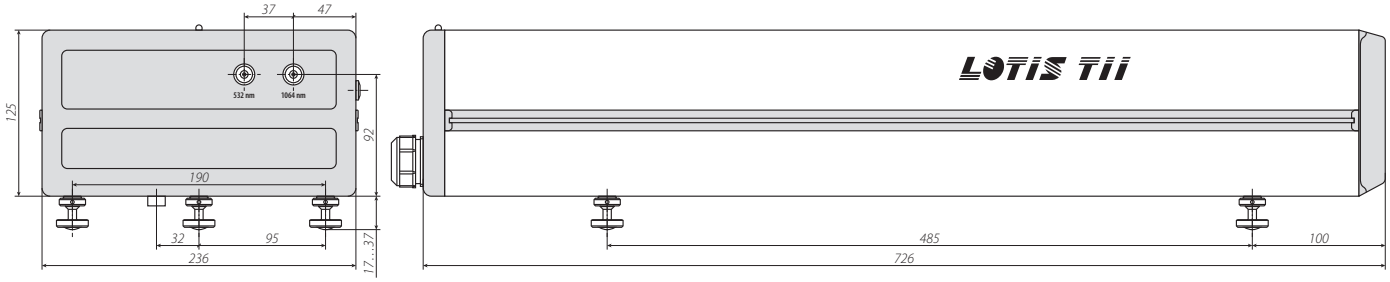
Double rod laser chamber and rigid folded laser resonator with intracavity telescope make available stable, reliable, and high efficiently operation. Single power supply and self-contained cooling unit with water-to-air heat exchanger are used in LS-2138.

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 / 532 nm	220 / 110
Pulse duration (FWHM at 1064 nm), ns		14–16
Pulse repetion rate, Hz		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 Power supply Cooling system Remote control	726 x 236 x 125 (20.0) 446 x 449 x 177 (22.0) 446 x 449 x 266 (23.0) 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



For more information about LOTIS TII and its products visit **www.lotis-tii.com**