

LS-2138-30-T Pulsed Nd:YAG Laser with UV output



Applications:

- Spectroscopy (LIF and LIBS)
- Dye Laser and OPO Pumping
- Biology, medicine
- Cleaning and Ablation
- LIDAR

The LS-2138-30-T our new model high energy UV laser with a pulse repetition rate 30 Hz, small divergence, high stability and output energy up to 180 mJ at 355 nm wavelength.

The double rod laser chamber and rigid folded laser resonator with intracavity telescope work together to create stable, reliable, and highly efficient operation. A one-body power supply and cooling unit with water-to-air heat exchanger are used in LS-2138-30-T.

All laser functions are controlled via a compact remote control and external triggering and synchronization are supported.

Supported options:

- automatic attenuator with regulation from 3% to 100%;
- precise energy control;
- built-in energy measurement system;

Specification

Parameter	Value	
Energy, mJ	355 nm	180
Pulse duration, ns	12–14	
Pulse repetition rate, Hz	30	
Beam divergence, mrad	≤1.5	
Beam diameter, mm	≤6.0	
Jitter*, ns	±1.5	
Energy stability (355 nm, RMS), %	≤1.5	
Size L x W x H, mm (Weight, kg)	Laser head	690×314×143 (20.0)
	Power supply and Cooling system	500×252×550 (25.0)
	Remote control	105 x 175 (0.5)
Power requirements	Single phase, 220±20 V, 50–60 Hz, 15 A	

* with respect to external trigger of Q-switch

