

LS-2131M

Compact pulsed Nd:YAG laser

Compact laser specially designed for integration into the systems with weight and dimension limitations.



Main feature of this laser is compact design in combination with wide range of operating modes:

- changeable repetition rate,
- changeable output energy,
- harmonics availability,
- Free-running (long pulse) availability.

Reliability and generation parameters stability achieved by:

- Intelligent sensors and interlock system,
- Integrated output energy monitor (at 1064 nm),
- Effective cooling system with water-to-air heat exchanger combined with laser power supply,
- Thermo stabilization of Q-switch and Second Harmonic crystals.

Specification

Parameter	LS-2131M-10	LS-2131M-20	
Energy, mJ	1064 nm	200	190
	532 nm	125	120
	355* nm	30/40**	30*
	266* nm	40*	30*
Pulse duration (FWHM, at 1064 nm), ns	7-9	7-9	
Pulse repetition rate, Hz	10	20	
Beam divergence, mrad	≤1.5	≤1.5	
Beam diameter, mm	5	5	
Jitter***, ns	±1	±1	
Energy stability 1064nm (rms), %	<1.5	<1.5	
Size L x W x H, mm (Weight, kg)	Laser head	447 x 128 x 75 (5.0)	
	Power supply	391 x 364 x 280 (20.0)	
	Remote control	105 x 175 (0.5)	
Power requirements	Single phase, 220±20 V, 50/60 Hz, 500 W		

* With harmonic generator assembly HG-TF (optional)

**With High Energy unit HG-T-HE (optional)

*** With respect to external trigger of Q-switch

