

LS-2136D-4 Double Pulsed High Repetition Rate Nd:YAG Laser



LOTIS TII LS-2136D — new high repetition rate models from the family of LOTIS TII double pulsed Nd:YAG lasers. LS-2136D provides operation two output pulses of equal energy and tunable temporal separation between pulses.

Standard configuration LS-2136D-4 has at output 80 mJ (1064 nm) and 40 mJ (532 nm). More power configuration LS-2136D-5 has up to 105 mJ (1064 nm) and 52 mJ (532 nm).

Specification

Parameter	Value	
Energy, mJ	1064 / 532 nm	80 / 40
Pulse duration (FWHM, at 1064 nm), ns	14–16	
Pulse repetition rate, Hz	50	
Beam divergence, mrad	≤1	
Beam diameter, mm	4	
Delay between laser pulses*, μs	1–80	
Jitter**, ns	±1.0	
Energy stability*** (1064 nm), %	±3.0	
Size L x W x H, mm (Weight, kg)	Laser head	770 x 306 x 136 (23.0)
	Power supply	446 x 449 x 177 (20.0)
	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	

* 1 μs steps, other steps (1–100 ns) are available on request

** with respect to external trigger of Q-switch

*** shot to shot for 99% of pulses

