LS-2137N, LS-2147N Multi Harmonics Nd:YAG Laser

LS-2137N and LS-2147N are the modern models of the well-known LOTIS multiwaves lasers. Unlike the most of high energy Q-switched Nd:YAG lasers LS-2137N and LS-2147N are lasing at fundamental frequency (FF, 1064 nm), second (SH, 532 nm), third (TH, 355 nm) and forth (FH, 266 nm) harmonics without additional alignment and change of the any laser units or components.

Specification

Parameter		Value	
Energy, mJ		LS-2137N	LS-2147N
	1064 nm	700	850
	532 nm	400	500
	355 nm	140/210*	180/270*
	266 nm	100	120
	213 nm	25**	30**
Pulse duration (FWHM, at 1064 nm), ns		15–17	16-18
Pulse repetition rate, Hz		10 (20***)	
Beam divergence, mrad		≤0.8	
Beam diameter, mm		≤8	
Jitter, ns		±1	
Energy stability 1064nm (RMS), %		<1.0	
Size L x W x H, mm (Weight, kg)			
	Laser head	1020 x 304 x 143 (20.0)	
	Power supply	363 x 365 x 192 (18.0)	
	Cooling system	363 x 365 x 292 (16.0)	
	Remote control	130 x 180 (0.5)	
Power requirements		Single phase, 220±20 V, 50/60 Hz, 10 A	

*High energy TH option
** With harmonic assembly HG-Fifth
***On request
Specifications are subjected to change without notice

Main features:

-New laser head design provides easy switchable output beams at 1064 nm, 532 nm, 355 nm and 266 nm without removing protective cover and additional alignment.

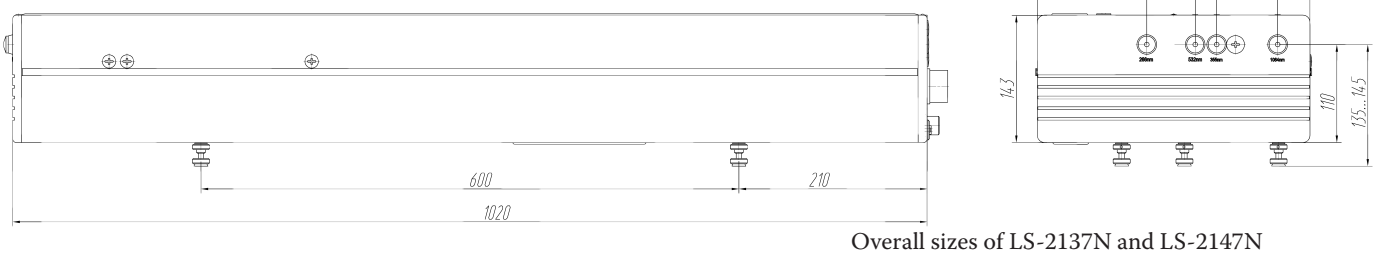
-Full PC-control (models LS-2137MH and LS-2147MH) wavelength switching options are available.

-The telescopic stable resonator has given the benefits of uniform beam quality, high energy and low beam divergence.

-High stability and durability of the output parameters are provided by special temperature control of nonlinear and Q-switched crystals as well as laser resonator special design.

-Due to its pulse duration (~ 15 ns) the lasers are the ideal tool for various research applications like LIDAR, spectroscopy and a pump source for OPO, Cr:Forsterite, Ti:Sapphire and dye tunable lasers.

- Enhanced Third Harmonic (355 nm) energy and integrated Fifth Harmonic (213 nm) options are available by request.



Overall sizes of LS-2137N and LS-2147N