## LS-2134TF, LS-2145TF Nd:YAG Q-switched laser



The LS-2134TF and LS-2145TF are our latest designs featuring the high reliability and simplicity found in our compact laser series LS-2134, LS-2145, and with improved output parameters as well as built-in UV converters.

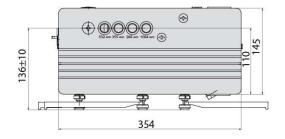
## Main features:

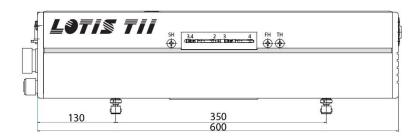
- The telescopic stable resonator has given the benefits of uniform beam quality, high energy and low beam divergence.
- New laser head design provides easy switchable output beams at 1064 nm, 532 nm, 355 nm and 266 nm without removing protective cover and additional alignment. Both PC-control and manual wavelength switching options are available.
- High stability and durability of output parameters is provided by special temperature control of nonlinear and Q-switched crystals as well as laser resonator special design.
- LS-2134TF and LS-2145TF due to its increased pulse duration are the ideal tool for various research applications like LIDAR, spectroscopy and a pump source for OPO, Cr:Forsterite and Ti:Sapphire tunable lasers.
- Enhanced high energy Third Harmonic (355 nm) and integrated Fifth Harmonic (213 nm) options are available by request.

## Specification

Parameter		LS-2134TF	LS-2145TF
Energy, mJ	1064 nm	260	350
	532 nm	160	230
	355 nm	60/80*	90/120*
	266 nm	50	70
Pulse duration (FWHM at 1064 nm), ns		14–16	
Pulse repetion rate, Hz		1; 2; 5; 10 (15)**	
Beam divergence, mrad		≤1.5	
Beam diameter, mm		≤6.3	
Jitter, ns		1.0	
Energy stability 1064 nm (rms), %		<1	
Size L x W x H, mm (Weight, kg)			
	Laser head Power supply Cooling system Remote control	600x354x145 391x364x192 ( 391x364x280 ( 130x180 (0.5)	16.0)
Power requirements		Single phase, 220±20 V, 50–60 Hz, 750 V*A	

<sup>\*</sup>High energy TH option





<sup>\*\*</sup> Option is available on request