

LS-2134N-TF, LS-2145N-TF

The LS-2134N-TF and LS-2145N-TF 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.

- 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-2134N-TF and LS-2145N-TF 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), integrated Fifth Harmonic (213 nm) and 15 Hz pulse repetition rate options are available on request.



SPECIFICATIONS¹

Model		LS-2134N	LS-2145N	LS-2134N-TF	LS-2145N-TF
Energy, mJ	1064 nm	260	350	260	350
	532 nm	160	210	160	210
	355 nm	-	-	60/80 ²	90/120 ²
	266 nm	-	-	50	70
Pulse duration (FWHM at 1064 nm), ns		13–15			
Pulse repetition rate, Hz		10			
Beam divergence ($\Theta_{0.86}$), mrad		≤ 1.5			
Beam diameter, mm		≤ 6.3			
Jitter ³ , ns		1.0			
Energy stability 1064 nm (StDev), %		≤ 1			
Size L x W x H, mm (Weight, kg)	Laser head	600x274x145 (14)		600x354x145 (17)	
	Power supply LPS-2230M	461x276x504 (26.0)		461x276x504 (26.0)	
	Remote control	105x175 (0.5)		105x175 (0.5)	
Power requirements		Single phase, 100-220V, 50/60 Hz, 1000 W			

¹ All specifications are subject to change without notice

² High energy TH option

³ With respect to external trigger of Q-switch

Overall sizes of LS-2134N-TF, LS-2145N-TF

