

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 |
| | 532 nm | 160 |
| | 355 nm | 60/80* |
| | 266 nm | 50 |
| Pulse duration (FWHM at 1064 nm), ns | 14–16 | |
| Pulse repetition 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 | 600x354x145 (17) | |
| Power supply | 391x364x192 (16.0) | |
| Cooling system | 391x364x280 (15.5) | |
| Remote control | 130x180 (0.5) | |
| Power requirements | Single phase, 220±20 V, 50–60 Hz, 750 V*A | |

*High energy TH option

** Option is available on request

