

LS-2138N, LS-2138N-TF, LS-2138N/100

LS-2138N, LS-2138N-TF, and LS-2138N/100 are the modern improved models of LOTIS TII high repetition rate Q-switched lasers for technology, medicine and various kind of scientific applications.

High repetition rate Nd:YAG Laser



Main features:

-New laser head design provides easy switchable of all output wavelengths including 1064 nm without removing protective cover and additional alignment.

-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.

-Full PC-control wavelength switching options are available on request.

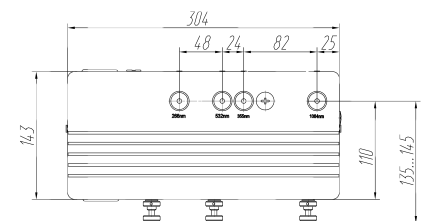
Specifications¹

| Model | LS-2138N | LS-2138N-TF | LS-2138N/100 |
|---------------------------------------|--|--------------------|--|
| Energy, mJ | 1064 nm | 220 | 220 |
| | 532 nm | 115 | 115 |
| | 355 nm | 45 ² | 45 |
| | 266 nm | 30 ² | 30 |
| | 213 nm | 6 ³ | 6 ³ |
| Pulse duration (FWHM, at 1064 nm), ns | 10-12 | | 10-12 |
| Pulse repetition rate, Hz | 50 | | 100 |
| Beam divergence, mrad | ≤1 | | ≤1.5 |
| Beam diameter, mm | ≤5 | | ≤5 |
| Jitter, ns | ±1.5 | | ±1.5 |
| Energy stability 1064nm (RMS), % | ≤1.5 | | ≤1.5 |
| Size L x W x H, mm (Weight, kg) | | | |
| Laser head | 820x304x143(26.0) | 1020x304x143(30.0) | 820x304x143(26.0) |
| Power supply | 446x449x177(22.0) | 446x449x177(22.0) | 446x449x177(23.0) |
| Cooling system | 446x449x266(23.0) | 446x449x266(23.0) | 630x485x310(65.0) |
| Remote control | 130x180(0.5) | 130x180(0.5) | 130x180(0.5) |
| Power requirements | Single phase, 220±20 V, 50/60 Hz, 2000 W | | Single phase, 220±20 V, 50/60 Hz, 3500 W |

¹ All specifications are subject to change without notice

² With external harmonic generator HG-TF

³ With external harmonic generator HG-Fifth



Overall sizes of LS-2138N-TF