## LS-2136D-4 Double Pulsed High Repetition Rate Nd:YAG Laser



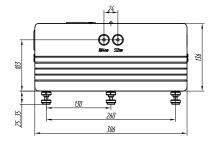
LOTIS TII LS-2136D — new high repetition rate models from the family of LOTIS TII double pulsed Nd:YAG lasers. LS-2136D provides operation two output pulses of equal energy and tunable temporal separation between pulses.

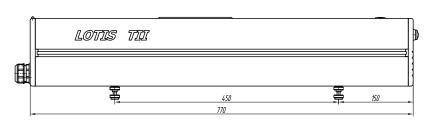
Standard configuration LS-2136D-4 has at output 80 mJ (1064 nm) and 40 mJ (532 nm). More power configuration LS-2136D-5 has up to 105 mJ (1064 nm) and 52 mJ (532 nm).

## **Specification**

| Parameter                             |  | Value   |
|---------------------------------------|--|---|
| Energy, mJ                            | 1064 / 532 nm  | 80 / 40   |
| Pulse duration (FWHM, at 1064 nm), ns |  | 14–16   |
| Pulse repetion rate, Hz               |  | 50  |
| Beam divergence, mrad                 |  | ≤1  |
| Beam diameter, mm                     |  | 4   |
| Delay between laser pulses*, μs       |  | 1-80  |
| Jitter**, ns                          |  | ±1.0  |
| Energy stability*** (1064 nm), %      |  | ±3.0  |
| Size L x W x H, mm (Weight, kg)       | Laser head<br>Power supply<br>Cooling system<br>Remote control | 770 x 306 x 136 (23.0)<br>446 x 449 x 177 (20.0)<br>446 x 449 x 266 (23.0)<br>105 x 175 (0.5) |
| Power requirements                    |  | Single phase, 220±20 V,<br>50–60 Hz, 2000 W   |

<sup>\* 1</sup>  $\mu$ s steps, other steps (1–100 ns) are available on request





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<sup>\*\*</sup> with respect to external trigger of Q-switch

<sup>\*\*\*</sup> shot to shot for 99% of pulses