

LS-2147A

HIGH POWER LASER

LS-2147A is new improved model of LOTIS high power lasers. Laser consists of two independent modules: oscillator and power amplifier. The special design of pump chambers suppresses undesired parasitic super luminescence oscillations that limit output energy.

Laser has built-in fundamental frequency (1064 nm), second harmonic (532 nm) and can be supplied with external third, fourth and fifth harmonics units (HG-T, HG-F, HG-5) on request.

Key Features:

- Compact design
- Automatically changing output wavelength with color coded LED indicators of operating mode
- Remote control and PC control of laser parameters (Pockels cell control, oscillator/amplifier delay, pump energy, shot and time counters).
- High energy UV output (355 nm) on request



SPECIFICATIONS¹

Model	LS-2147A
Energy, mJ	
1064 nm	1400
532 nm	700
355 nm	300 ²
266 nm	180 ²
213 nm	40 ²
Pulse duration (FWHM, at 1064 nm), ns	14-16
Pulse repetition rate, Hz	10
Beam divergence, mrad	≤1.5
Beam diameter, mm	≤10
Jitter ³ , ns	±1.0
Energy stability (StdDev), %	≤1.5
Size L x W x H, mm (Weight, kg)	
Laser head	705 x 306 x 143 (38.0)
Power supply	530 x 276 x 330 (20.0)
Cooling system	590x380x740 (37.0)
Remote control	105 x 175 (0.5)
Power requirements	Single phase, 220 V, 50/60 Hz, 2000 W

¹ All specifications are subject to change without notice

² With external harmonic generators

³ With respect to external trigger of Q-switch

