

LS-2145 PIV

Compact Nd:YAG Laser for Particle Image Velocimetry

LS-2145 PIV is a compact dual pulse laser with precise tuning delay between output pulses for PIV and other kinetic applications.

Main features:

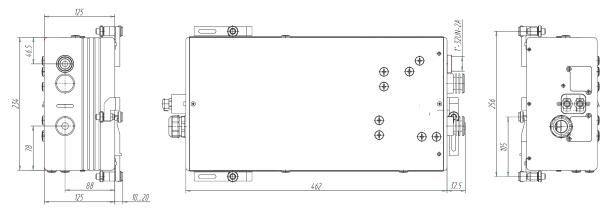
- -Small foot-print laser head design.
- -Integrated one-body power supply and cooling system with water-to air heat exchanger.
- -Output of two pulses with equivalent energy.
- -Precise tuning of two pulses delay from 1 microsecond to 50 milliseconds using internal control.
- -Any delay between pulses using external control and built-in TTL interface.
- -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.
- Built-in variable attenuator (option) of output energy.
- Compatible with C-mount (option).



Specification

| Specification | |
|---|--|
| Parameter | LS-2145 PIV |
| Energy at 532 nm, mJ | ≥300 (each pulse) |
| Pulse duration (FWHM), ns | 6-7 |
| Pulse repetition rate, Hz | 10 |
| Beam divergence (θ _{0.86}), mrad | ≤2.5 |
| Beam diameter, mm | ≤6 |
| Separation between pulses | 1 μs-100 ms |
| Jitter, ns | ±1 |
| Energy stability (rms), % | <1 |
| Polarization | Linear horizontal |
| Size L x W x H, mm | |
| Laser head Power supply and cooling system | 234x 462 x 125 (12 kg) 252 x 445 x 465 (25 kg) |
| Input Power requirements | Single phase, 100-240 V, 50/60 Hz, universal input 15A at 100V |

Specification is subject to change without notice



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