LS-2132 PIV

Lotis tii

Compact Nd:YAG Laser for Particle Image Velocimetry

LS-2132 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, beam quality.
- -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.

- Internal probes of 1064 nm energy (option).

- Compatible with C-mount (option).



Specification

Parameter	LS-2132 PIV
Energy at 532 nm, mJ	100 (each pulse)
Pulse duration (FWHM), ns	≤5
Pulse repetition rate, Hz	20
Beam divergence (θ6), mrad	≤3
Beam diameter, mm	≤5
Separation between pulses	1 μs-50 ms (step 1 μs)
Jitter, ns	±1
Energy stability (rms), %	<1
Polarization	Linear horizontal
Size L x W x H, mm	
Laser head Power supply and cooling system	176 x 416 x 121 (10 kg) 252 x 445 x 465 (25 kg)
Input Power requirements	Single phase, 100-240 V, 50/60 Hz, universal input 15A at 100V 10A at 220V

Specification is subject to change without notice

LOTIS TII /// Nd:YAG Lasers



Channel 1

Beam profiles, near field (532 nm, 100 mJ, at 1,5 m from laser emitter aperture)





Channel 2

Channel 2

Beam profiles, far field (532 nm, 100 mJ in focal plane of lens F=1250 мм)



For more information about LOTIS TII and its products visit www.lotis-tii.com

Copyright © 2014 LOTIS TII Ltd. All rights reserved. LOTIS TII, the LOTIS TII logo are trademarks of LOTIS TII Ltd. All technical parameters are based on LOTIS TII's standard testing methods. Subject to change without notice. This material is provided for informational purpose only.