

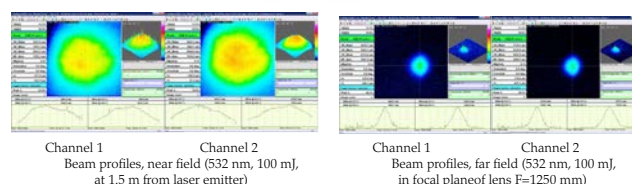
LS-2132PIV AND LS-2145PIV

COMPACT Nd:YAG LASER FOR PARTICLE IMAGE VELOCIMETRY

LS-2132PIV and LS-2145PIV are compact dual pulse lasers 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).



SPECIFICATIONS¹

Model	LS-2132PIV	LS-2145PIV-200	LS-2145PIV-300
Energy at 532 nm, mJ	2x100	2x200	2x300
Pulse duration (FWHM), ns	≤5	6-7	
Pulse repetition rate, Hz	20	15	10
Beam divergence ($\Theta_{0.86}$), mrad	≤3	≤1.5	≤3
Beam diameter, mm	≤5	≤6	≤8
Delay between pulses ³	0-50 ms	0-60 ms	0-100 ms
Jitter ² , ns	±1.0	±1.5	
Energy stability 532 nm (rms), %	<1		
Polarization	Linear horizontal		
Size LxWxH, mm (Weight,kg)			
Laser head	416x176x121 (10.0)	462x234x125 (12.0)	
Power supply and cooling system	445x252x465 (25.0)	445x252x465 (25.0)	
Input Power requirements	Single phase, 100-240 V, 50/60 Hz, universal input 15 A at 100 V 10 A at 220 V		

¹ All specifications are subject to change without notice

² With respect to external trigger of Q-switch

³ Any delay between pulses using external triggering

Overall sizes of LS-2132PIV

