



# Double-Pulse Lasers

*Perfect for PIV applications*

Particle Image Velocimetry (PIV) can require nanosecond range double pulse output laser sources with precise delay between pulses. Microvec offers double-pulse laser solutions that include ultra-compact DPSS systems and high-energy flashlamp pumped lasers. The NS-series lasers for PIV applications consists of two parallel independent high-energy Q-switched Nd:YAG lasers with embedded second (third – optionally) harmonic generators.



## KEY BENEFITS

- Compact and portable
- High Energy
- Low cost
- Rugged, misalignment-free design
- 2 year warranty
- Easy integration with PIV system (complete RS-485 control)

## SPECIFICATIONS

		NS-100-DP	NS-200-DP	NS-320-DP
Laser Type		Flashlamp-pumped	Flashlamp-pumped	Flashlamp-pumped
Repetition rate, Hz		25	20	15
Pulse duration (FWHM), ns	1064 nm	≤10	≤10	≤10
Pulse energy per channel, mJ	1064 nm	100	200	320
	532 nm	60	120	200
Max. delay between pulses		80 μs	80 μs	80 μs
Beam diameter (near field), mm		~4	~5	~6.5
Beam divergence, mrad		≤4.0	≤4.0	≤4.0
Pulse-to-pulse energy stability, %RMS		<2.5	<2.5	<2.5
Pulse length, ns		12	10	8
Power supply/cooling system model		LPS-1000	LPS-1000	LPS-1000



FOR MORE INFORMATION VISIT

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