

PIVotal Series Double-Pulse Lasers

Perfect for PIV applications

Particle Image Velocimetry (PIV) can require nanosecond range double-pulse output laser sources with precise delays between pulses. Microvec offers double-pulse, high-energy flashlamp pumped lasers. PIVotal series lasers for PIV applications consist of two parallel independent high-energy Q-switched Nd:YAG laser resonators with embedded second (third/fourth - optionally) harmonic generators.



KEY BENEFITS

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

SPECIFICATIONS

		PIVotal-60	PIVotal-120	PIVotal-200
Laser Type		Flashlamp-pumped	Flashlamp-pumped	Flashlamp-pumped
Repetition Rate		2 x 25 Hz	2 x 20 Hz	2 x 15 Hz
Pulse Length (FWHM)	532 nm	7...10 ns	7...10 ns	7...10 ns
Pulse Energy per channel	532 nm	2 x 60 mJ	2 x 120 mJ	2 x 200 mJ
Pulse Stability	532 nm	+/- 4%	+/- 4%	+/- 4%
Beam Diameter (near field)		4 mm	5 mm	6.5 mm
Beam Divergence		<3 mrad	<3 mrad	<3 mrad
Pointing Stability		<100 µrad	<100 µrad	<100 µrad
Lamp Life:		>100 million	>100 million	>100 million
Timing Jitter:		<1 ns	<1 ns	<1 ns
Voltage:		90 – 250 VAC	90 – 250 VAC	90 – 250 VAC
Frequency:		47 – 63 Hz	47 – 63 Hz	47 – 63 Hz
Power supply/cooling system		LPS-1000	LPS-1000	LPS-1000
Ambient:		15-30 °C	15-30 °C	15-30 °C
Power:		Single Phase	Single Phase	Single Phase

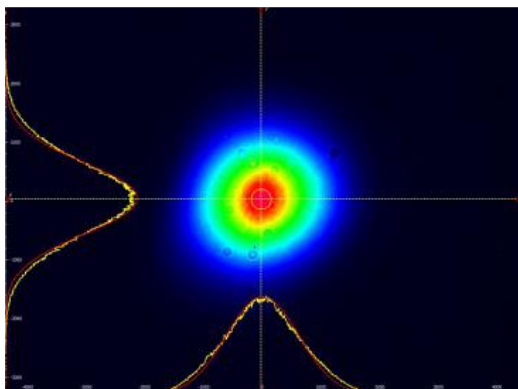
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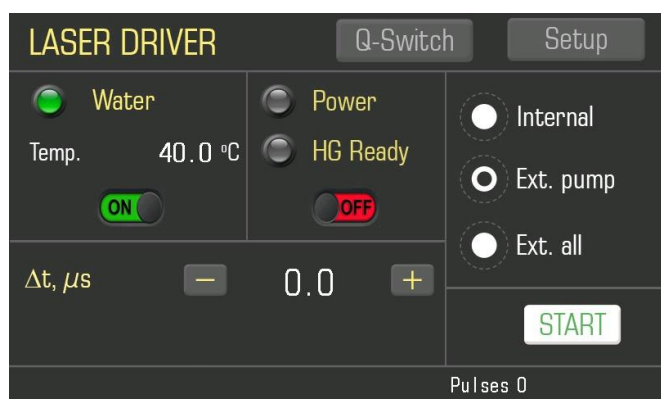


Far field beam profile



PIVotal laser with light sheet optics and guiding arm

OPTIONAL TOUCH SCREEN REMOTE CONTROLLER

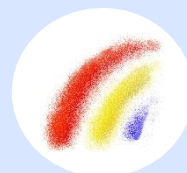


Optional touch screen remote controller allows easy control of the laser



FOR MORE INFORMATION VISIT

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