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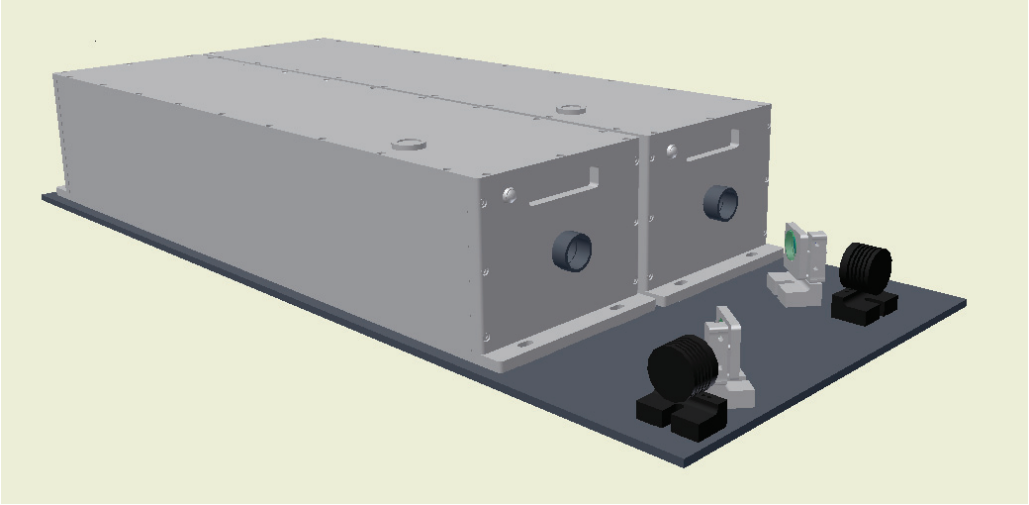
UpTek Solutions Corp.

Myron PIV



FEATURES

- Flexible configuration for combined and independent laser operations
- No DI water requirement
- Field-proven long-life diode module
- Rugged design, high reliability
- Up to 20 KHz operating repetition rate
- Multi-mode and TEM00 mode output
- Smooth beam profile at focus
- Ideal for Particle Image Velocimetry (PIV) and Industrial applications

APPLICATIONS

- PIV
- Ultrafast pumping
- Material processing
- Micromachining

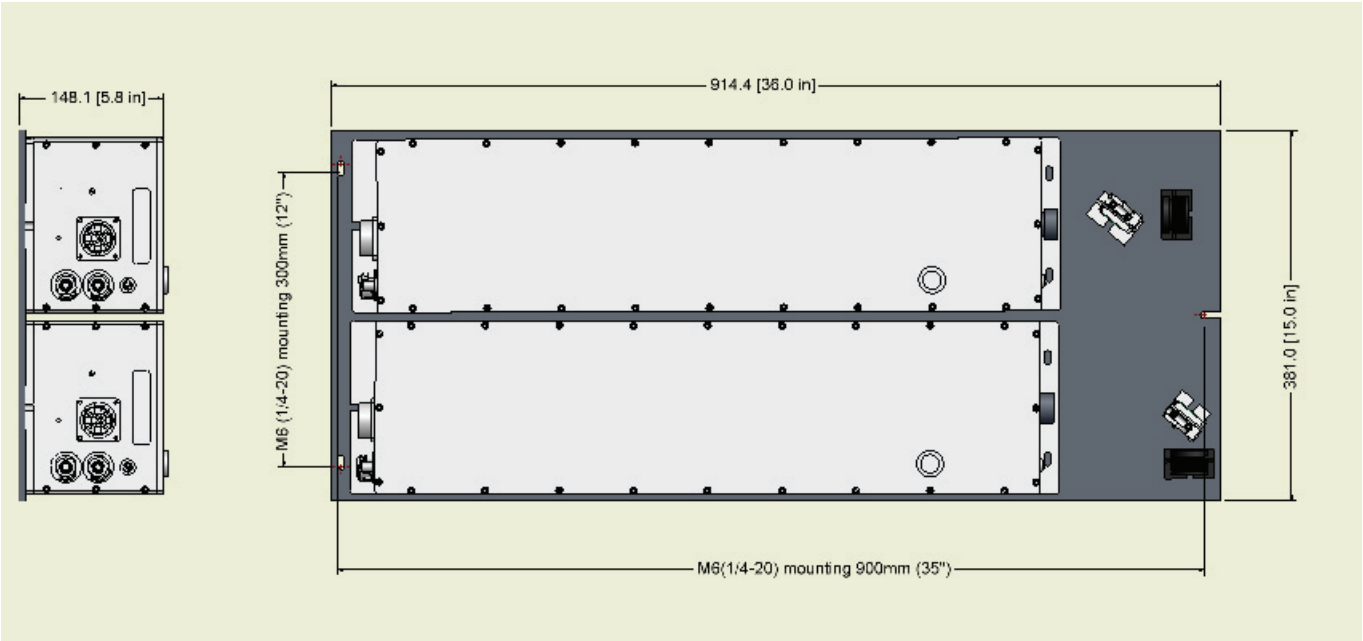
The Myron PIV combines two independent diode-pumped, Q-switched second harmonic Nd;YAG lasers onto one laser beam. It features field-proven long-life diode module and no DI water requirement for water chiller. The rugged enclosure design, optimum cavity design and PRF adjustment result in excellent output stability over a large dynamic range as well as super reliability for long-term operation. The Myron PIV is available in both TEM00 and Multi-mode output. Two laser heads design make the PIV system flexible in combined and separated laser application to provide one high-power or two synchronized half-power laser output. In either case, two laser beams are synchronized with adjustable beam delay.

Two Myron lasers are identical in optical design giving temporally and spatially matched laser pulses for the highest cross-correlation performance. Each laser can be independently triggered via TTL pulses. The external beam combination makes easier optics access and more flexible laser applications.

Myron PIV provides optimum solutions for scientific as well as industrial customers for applications, such as PIV, ultrafast amplifier pumping, material processing, micromachining, etc.

UpTek Solutions
Ultrafast Laser and Applications

	Myron PIV-MM	Myron PIV-00
Average Power	>58 W @ 10KHz	> 38W @ 10 KHz
Repetition Rate	4- 20 KHz	4-20 KHz
Wavelength	532 nm	532 nm
Pulse width	<120 ns	<90 ns
Spatial Mode	M^2 <10	M^2 <1.2 (TEM_{00})
Beam Size ($1/e^2$)	~ 1 mm	~ 1 mm
Energy Stability	<2 % RMS	<2 % RMS
Polarization	Cross Polarization	Cross Polarization



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