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UpTek Solutions Corp.

Myron

Diode-pumped, Q-Switched Nd:YAG Green Laser

FEATURES

- No DI water requirement
- Field-proven long-life diode module
- Rugged design, high reliability
- Up to 20 KHz operating repetition rate
- Average output up to 30 W
- Multi-mode and TEM00 mode output
- Smooth beam profile at focus
- Ideal for Ti:Sapphire pumping at high-repetition rate

APPLICATIONS

- Ultrafast pumping
- PIV
- Material processing
- Micromachining

The Myron is a diode-pumped, Q-switched second harmonic Nd:YAG laser. It features a field-proven long-life diode module and no DI water requirement for water chiller. The rugged enclosure design, optimized cavity design and PRF adjustment result in excellent output stability over a large, dynamic range as well as increased reliability for long-term operation. The Myron is available in both TEM00 and Multi-mode output. The Myron-20-0 offers >20 W TEM00 at 532 nm. The Myron-30-M delivers >30W multi-mode 532 nm output.

The Myron can be used not only for Ti:sapphire pumping at a high repetition rate (much like UpTek Solutions' Phidia-10 series), but also for material processing due to its smooth TEM00 beam profile. The Myron series provides optimum solutions for scientific as well as industrial customers for numerous applications, such as ultrafast amplifier pumping, PIV, material processing, micromachining, etc.

	Myron-30-M	Myron-20-0
Average Power	>30 W @ 10KHz	>20W @ 10 KHz
Repetition Rate	1- 20 KHz	1-20 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	Linear, Horizontal	Linear, Horizontal

UpTek Solutions
Ultrafast Laser and Applications

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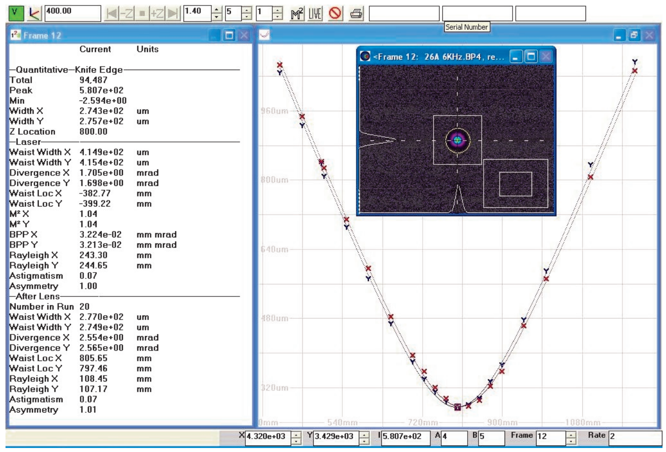
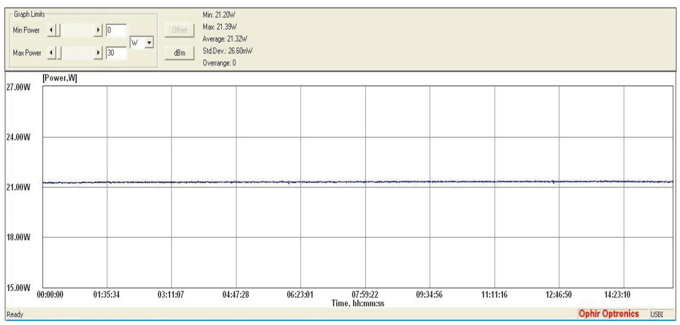
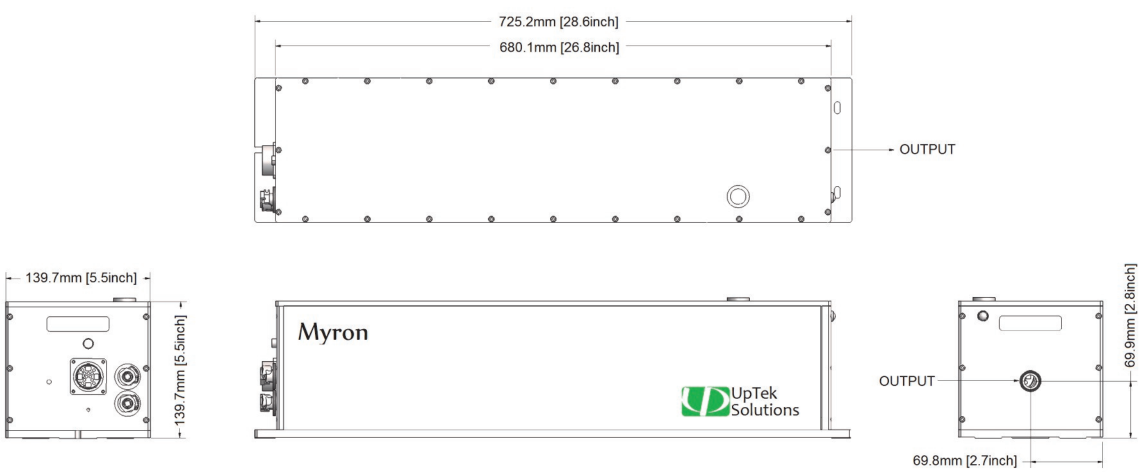


Myron-20-0 Output Beam Quality Measurement



Myron-20-0 16-hour Output Power Stability Measurement



Myron Footprint

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