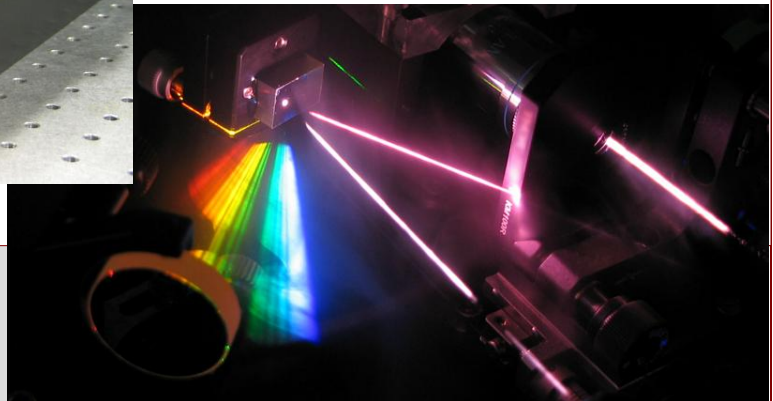


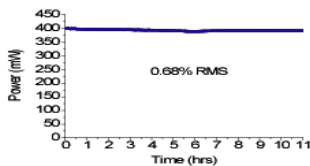
*Ti:sapphire ultrafast laser oscillators  
Unmatched value, versatility and performance*

- *Modelocked, 3-10nJ at >70nm, <12fs, 750-840nm*
- *Ideal as an Educational Product - introducing students to cutting edge ultrafast technology*
- *Lowest Introduction price-point to ultrafast oscillators - while maintaining the highest quality the industry has to offer.*

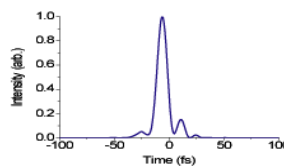


*The LEGACY of known performance...*

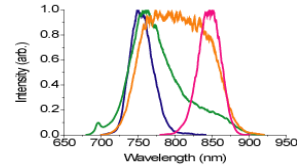
*KMLabs offered the 1<sup>st</sup> widely used ultrashort pulse oscillator on the market.*



11 hr run with 10min warm-up



10.6fs compressed pulses



wavelength and bandwidth control

*Student Education • Ultrafast Introduction • Educational Lab Modules  
Spectroscopy • Microscopy • Terahertz • OCT • Amplifier Seeding*

Kapteyn-Murnane Laboratories, Inc.™

USA: 1855 South 57<sup>th</sup> Court, Boulder, CO 80301 □ Tel: 303-544-9068 □ Fax: 419-821-2284 □ [www.kmlabs.com](http://www.kmlabs.com)

China: 86 10 82800851  
Japan: 81 3(3686)4711

France: 33 (0) 1 41906180  
Singapore: (65) 6746 8068

Germany/Austria: 081 91 985199 0  
South Korea: 042 823 5300

India: 91 22 27801176  
UK: 44 01295 672500

	Sample Performance when seeded with various pumps				
	Collegiate	3w	5w	7w	10w
	<i>Modelocked Laser Pump Laser not included</i>	<i>Modelocked Laser 250mW 2.8nJ Output</i>	<i>Modelocked Laser 550mW 6.1nJ Output</i>	<i>Modelocked Laser 750mW 8.3nJ Output</i>	<i>Modelocked Laser 900mW 10nJ Output</i>
<b>Pulse Duration:</b>	Sub-12fs* (center wavelength not tunable)				
	Sub-15fs (when centered between 780-810nm)				
	Sub-25fs (when centered between 750-840nm) Longer pulse option also available				
<b>Wavelength Center:</b>	750-840nm, with options for 700-900nm				
<b>Bandwidth at 800nm:</b>	>70nm FWHM				
<b>Avg. Power, 70nm FWHM [Energy]**</b>	Depends on pump power	Up to 250mW [2.8nJ]	Up to 550mW [6.1nJ]	Up to 750mW [8.3nJ]	Up to 900mW [10.0nJ]
<b>Avg. Power, &gt;70nm FWHM [Energy]**</b>		Up to 200mW [2.2nJ]	Up to 450mW [5.0nJ]	Up to 650mW [7.2nJ]	Up to 750mW [8.3nJ]
<b>Repetition Rate:</b>	80 - 100 MHz, customer specified				
<b>Pump Laser:</b>	Pump Laser not included	Customer Provided 3W pump	Customer Provided 5W pump	Customer Provided 7W pump	Customer Provided 10W pump

## Collegiate™ series *(Includes the following)*

Pre-Aligned Rail Assembly • Crystal • Optics Set • Mounts Enclosure • Photo Diode to connect to oscilloscope  
Manually adjustable Prisms

*Ideal for undergraduate and Graduate courses, and Teaching Laser laboratories*

*Highest Performance / Lowest cost system of it's type*

### Additional options available

- **Upgraded Electronics option**  
Oscillator Controller • Motorized Tuning Slit & Prisms  
RF amplifier for High-speed Photo Diode
- **Pump Steering option** Periscope & Enclosure
- **Short Wavelength option** 710 – 810 nm
- **Long Wavelength option** 800 – 900 nm



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