



Griffin™ – Ultrafast Oscillator

Applications

- Frequency Conversion into the UV and mid-IR
- Pumping OPOs
- Materials Research
- Femtochemistry
- Spectroscopy
- THz generation
- Ultrafast Imaging
- 2-photon polymerization
- Pump-probe experiments

Features

- Average powers up to >1.4 W
- Maximum pulse energy >15 nJ
- Configurable repetition rates from 75 - 102 MHz
- Configurable power
- Computer control of the center wavelength and bandwidth of the oscillator spectrum
- Computer controlled pulse duration
- < 12fs standard with < 10 fs option
- Excellent beam quality: M^2 typically < 1.2
- One-box configuration with integrated pumps
- Repetition rate lock option (Halcyon™)
- CEP option
- Graphical, intuitive software control with integrated diagnostics
- Custom configurations available

Tunability and flexibility in customizable configurations to optimize your specific experiment



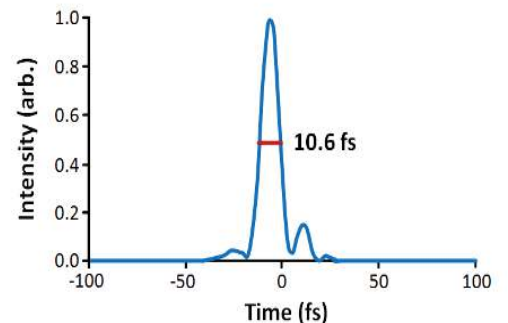
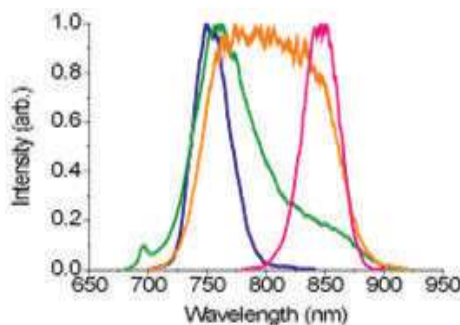
The Griffin™ series is KMLabs' family of tunable ultrashort-pulsed Ti:Sapphire-based oscillators. It is a fully engineered and integrated commercial source based on a single rugged opto-mechanical platform.

Tailor the laser output to the optimum for your experiment.

Griffin™ Unique Features

- Computer-controlled tuning of center wavelength
- Computer-controlled tuning of spectral bandwidth
- Ultrashort sub-12fs pulses

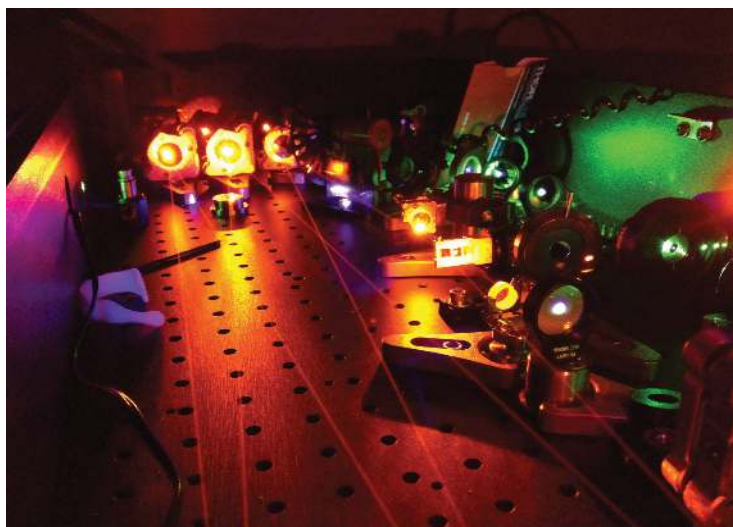
Griffin™ Tunability and Pulse Duration



Griffin™ Product Family

The Griffin™ product family provides tunable wavelength, bandwidth and pulse duration

Parameter	Griffin-5 Specification	Griffin-10	Griffin-10-WT
Power [Energy]	550 mW [5.7 nJ]	1.4 W [15 nJ]	800 mW [8.4 nJ]
Minimum Pulse Duration	< 12 fs (fixed center wavelength)	< 25 fs, 800 nm	< 35 fs (700 – 920 nm)
	< 15 fs (780 – 810 nm)		
	< 25 fs (750 – 840 nm)	< 40 fs (750 – 840 nm)	
Wavelength Center	750 – 840 nm		700 – 920 nm
Maximum Bandwidth at 800 nm	> 70 nm FWHM	> 40 nm FWHM	> 30 nm FWHM
Minimum Bandwidth at 800 nm	< 25 nm FWHM	< 15 nm FWHM	
Power Stability	< 1% RMS over 8 hrs after warm-up		
Repetition Rate	95 MHz (standard), 80 MHz option available		
Pump Laser	Integrated 5W pump	Integrated 10W pump	Integrated 10W pump
Integrated Diagnostics	Laptop computer and fast photodiode included Spectrometer, and power monitor optional		
Optical Assembly Dimensions	83cm L x 41cm W Water-cooled platform		



Griffin-10™ pumping a custom noncollinear OPA