



# Halcyon™ - Repetition Rate Locked Ultrafast Ti:sapphire oscillator

Tunability and flexibility in customizable configurations to optimize your specific experiment

## Applications

- Synchrotron locking
- Pumping OPOs
- Materials Research
- Femtochemistry
- Spectroscopy
- THz Generation
- Ultrafast Imaging
- 2-photon polymerization
- Pump-probe experiments

## Features

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



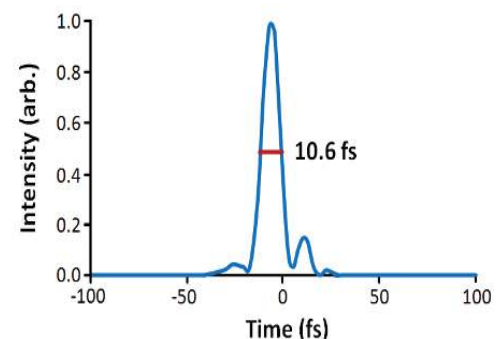
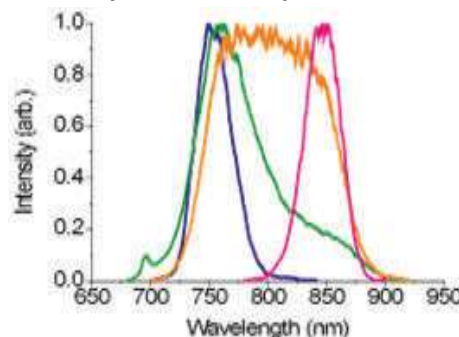
The **Halcyon™** series is KMLabs' family of repetition-rate locked, tunable ultrashort-pulsed Ti:sapphire-based oscillators. It is a fully engineered and integrated commercial source based on a single rugged opto-mechanical platform. The Halcyon™ has the same tunability as the Griffin™ series of oscillators with the additional feature of repetition rate locking.

Tailor the laser output to the optimum for your experiment.

### Halcyon™ Unique Features

- Low jitter, <150 fs, locking to your RF reference signal\*
- Customer-specified reference frequency: 75 MHz - 4 GHz
- Ultrashort sub-12 fs pulses, up to 1.4 W average power
- Easy-to-use, computer-controlled interface

### Halcyon™ Tunability and Pulse Duration



*Contact us for full specifications  
or with questions*



KM Labs is proudly represented in Australia and New Zealand by AXT Pty. Ltd.  
1/3 Vuko Pl., Warriewood  
NSW 2102 Australia  
T. +61 (0)2 9450 1359 F. +61 (0)2 9450 1365  
W. [www.axt.com.au](http://www.axt.com.au) E. [info@axt.com.au](mailto:info@axt.com.au)