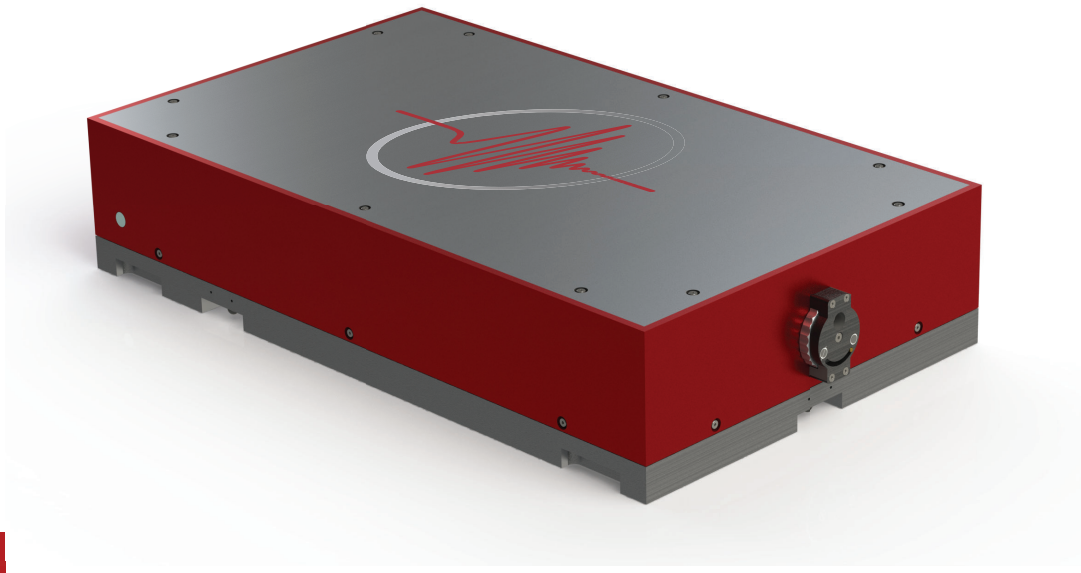
# Stryde - Ultrafast Ti:sapphire oscillator

## The next generation of engineered reliability: closed-box and hands-free

## Applications

- Ultrafast amplifier seeding
- Frequency conversion UV to mid-IR
- Pumping OPOs
- Materials Research
- Femtochemistry
- Spectroscopy
- THz Generation
- Ultrafast Imaging
- 2-photon polymerization
- Pump-probe experiments
- Optical coherence tomography



## Features

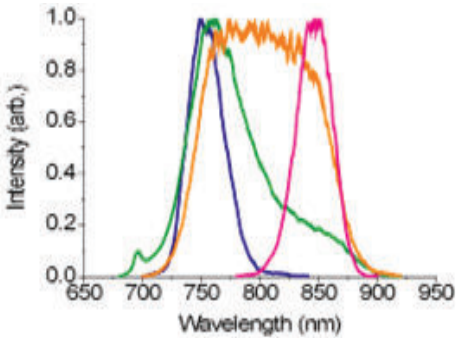
- Average powers up to > 500 mW
- Maximum pulse energy > 6 nJ
- Computer control of the center wavelength and bandwidth of the oscillator spectrum
- Computer controlled pulse duration
- < 12 fs standard with < 10 fs option
- Excellent beam quality: $M^2$ typically < 1.2
- One-box configuration with integrated pumps
- Graphical, intuitive software control with integrated diagnostics
- Custom configurations available

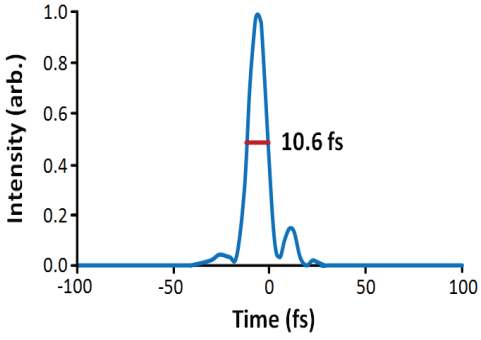
**Stryde**™ tunable ultrashort-pulsed ti:sapphire-based oscillator is a fully engineered and integrated commercial source based on a single rugged opto-mechanical platform.

### Stryde Unique Features

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

### Stryde Tunability and Pulse Duration




KMLABS™ inc.
LEADING IN ULTRAFAST

## Stryde Key Specifications

| Parameter | Specification |
|---|---|
| **Power [Energy]** | 500 mW |
| **Minimum Pulse Duration**<br>*With proper external dispersion compensation* | < 12 fs (fixed center wavelength) |
| | ≤ 15 fs (780 – 810 nm) |
| | < 25 fs (750 – 840 nm) |
| **Wavelength Center** | 750 – 840 nm |
| **Maximum Bandwidth at 800nm** | > 70 nm FWHM |
| **Minimum Bandwidth at 800nm** | < 25 nm FWHM |
| **Power Stability** | < 1% RMS over 24 hrs after warmup |
| **Pointing Stability** | < 10 µrad RMS over 24 hrs after warmup |
| **Repetition Rate** | 78 MHz |
| **Pump Laser** | Integrated 5W pump |
| **Integrated Diagnostics** | • Laptop computer and fast photodiode included<br>• Spectrometer and power monitor included |
| **Optical Assembly Dimensions** | 24.5” x 14.5” x 5.8” Temperature-stabilized optical platform |