

Stryde - Ultrafast Ti:sapphire oscillator



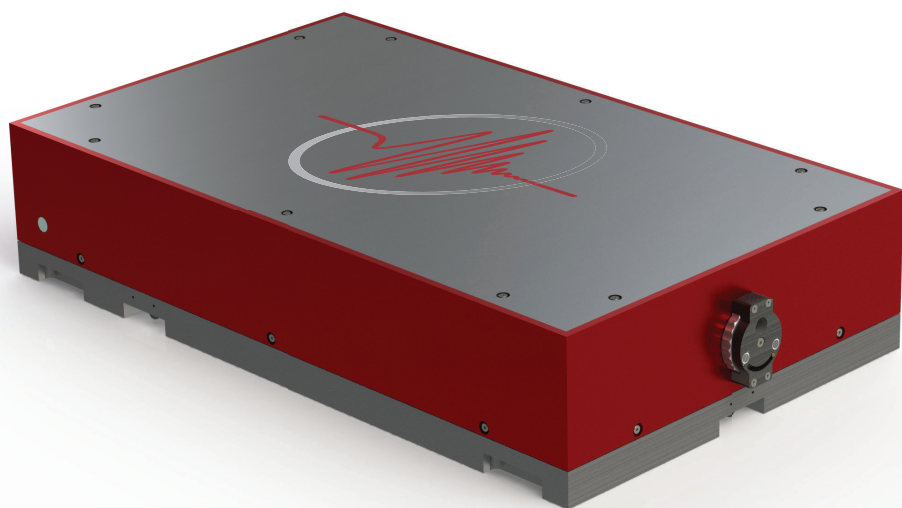
The next generation of engineered reliability:
closed-box and hands-free

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

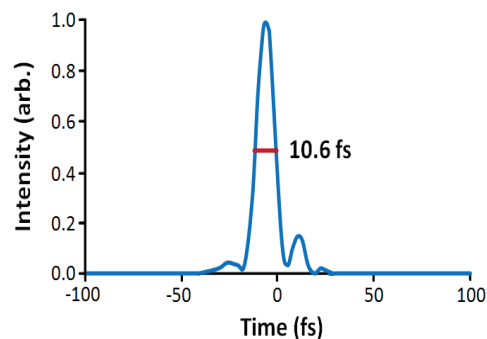
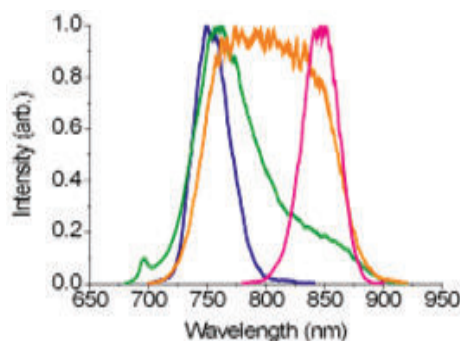


Stryde™ tunable ultrashort-pulsed ti:sapphire-based oscillator is a fully engineered and integrated commercial source based on a single rugged opto-mechanical platform.

Stryde Unique Features

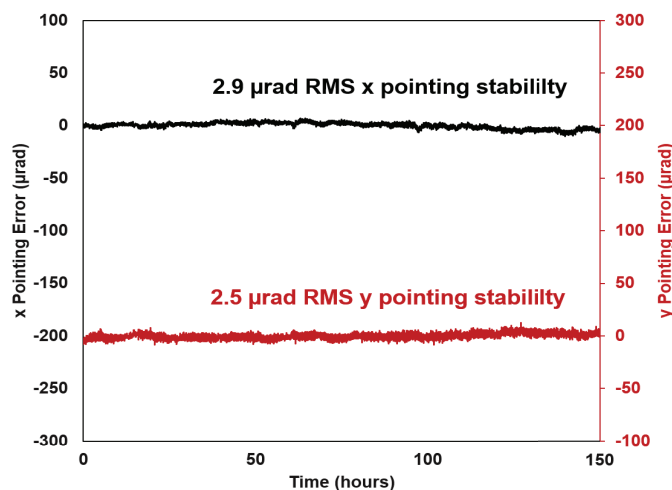
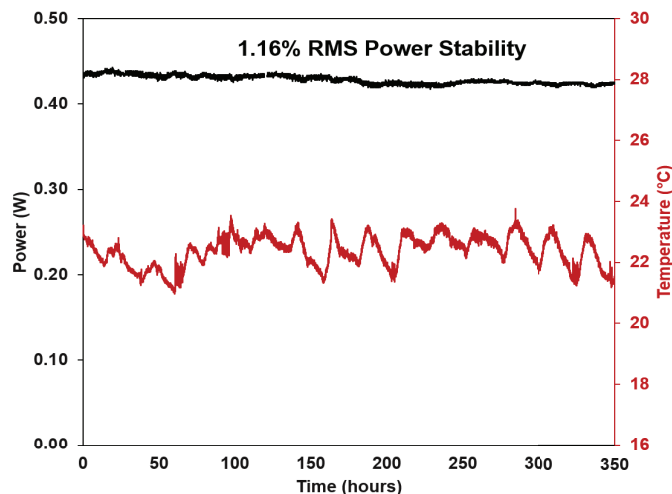
- Computer-controlled tuning of center wavelength
- Computer-controlled tuning of spectral bandwidth
- Ultrashort sub-12 fs pulses

Stryde Tunability and Pulse Duration



Stryde Key Specifications

| Parameter | Specification |
|---|---|
| Power [Energy] | 500 mW |
| Minimum Pulse Duration | < 12 fs (fixed center wavelength) |
| <i>With proper external dispersion compensation</i> | ≤ 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 μ rad RMS over 24 hrs after warmup |
| Repetition Rate | 78 MHz |
| Pump Laser | Integrated 5W pump |
| Integrated Diagnostics | <ul style="list-style-type: none"> Laptop computer and fast photodiode included Spectrometer and power monitor included |
| Optical Assembly Dimensions | 24.5" x 14.5" x 5.8" Temperature-stabilized optical platform |



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