

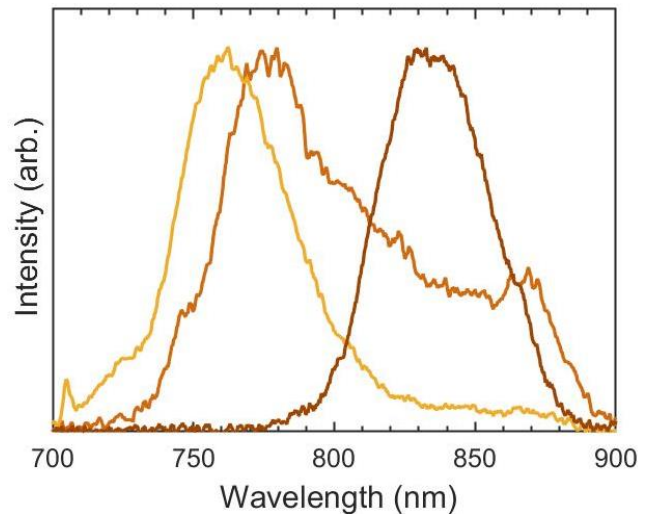


KMLabs' **Collegiate** Ti:sapphire oscillator kit

-Carefully designed for teaching, educational and entry-level research labs

Specifications

Pump laser	5W, 532 nm CW
Center wavelength	~ 800 nm
Tunable wavelength range	~ 750-850 nm
Repetition rate	~ 93 MHz
Max mode-locked power	>500 mW at 800 nm
Pulse duration	< 15fs based on Fourier transform limit
Pulse energy	> 5 nJ
Approx. Dimensions (mm)	813 L, 432 W, 155 H



Features

- Micrometer control of the center wavelength of the oscillator spectrum.
- Manually tunable pulse duration.
- Manually initiate mode-locking to form fs pulses from CW operation.

Options

- Collegiate-Base: Includes the pump laser, ultrafast optics, and standard mounts.
- Collegiate-standard: Includes the base tier, plus dust-proof enclosure, standard diagnostics, and optical breadboard.
- Collegiate-premium: Includes the standard tier, plus laptop, and enhanced mounts for superior stability and performance.

Collegiate is a wavelength-tunable ultrafast oscillator kit that helps bridge the gap between theory and experiment for students and researchers. When it was introduced in 1994 by KMLabs, this was the first commercial Ti:sapphire laser capable of generating pulses less than 12 fs in duration.

Redesigned for accessibility and ease of use, this system offers hands-on experience with a real ultrafast oscillator, supporting a wide range of research experiments in ultrafast optics and spectroscopy. Manual control of the center wavelength, pulse duration, and mode-locking trigger helps understanding Collegiate working principles better. This makes KMLabs' Collegiate an ideal addition to teaching and educational labs.