



# Cascade™ - High Pulse Energy Ti:sapphire oscillator

Cavity-dumped oscillator 40 kHz - 4 MHz, up to  
>30 nJ pulses

## Applications

- Ultrafast imaging
- Harmonic generation
- Materials Research
- White light generation
- Nano-surgery
- THz Generation
- Pump-probe experiments

## Features

- High energy pulses to > 30 nJ
- User-adjustable repetition rate 40 kHz to 4 MHz
- Shortest pulse duration < 15 fs
- Configurable power
- Computer control of the center wavelength and bandwidth of the oscillator spectrum
- Computer controlled pulse duration
- Excellent beam quality: near TEM<sub>00</sub>
- One-box configuration with integrated pump laser
- Graphical, intuitive software control with integrated diagnostics
- Water-cooled baseplate for maximum long-term stability



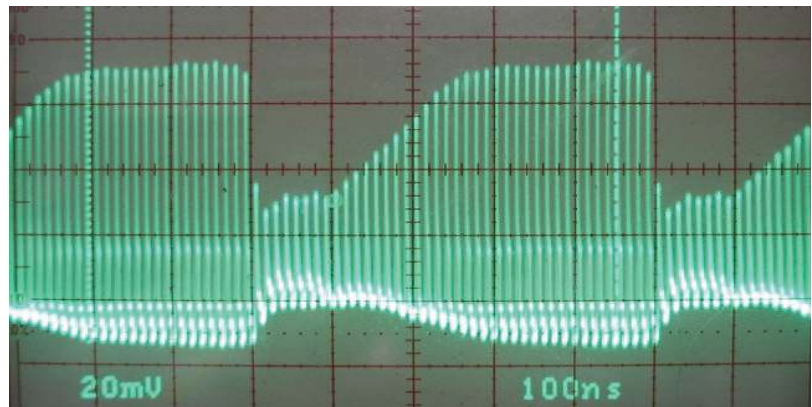
**Cascade™** is KMLabs' cavity-dumped ti:sapphire oscillator. It is a fully engineered and integrated commercial source based on a single rugged opto-mechanical platform.

KMLabs had been building this integrated system for over a decade.

### Cascade™ Unique Features

- Integrated, robust cavity-dumping technology
- High energy > 30 nJ pulses
- Ultrashort pulses < 15 fs
- User-adjustable dumping rate: 40 kHz - 4 MHz

### Cascade™ Intracavity Pulse Train



*Contact us for full specifications or with questions*