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..... Enabling an Ultrafast World

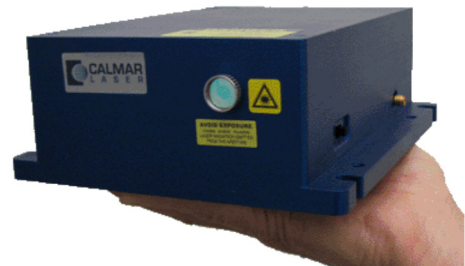
Calmar Laser's Cazadero FLCPA Is Featured in Photonics Online Newsletter [\(click to download\)](#)

Mendocino 780 nm Femtosecond Fiber Laser

Now available as an OEM seed version for Ti:sapphire amplifiers [\(FPL-M2\)](#)

The perfect source for seeding high energy, ultrafast Ti:sapphire amplifiers...just provide a 5 V input, turn-on, and you have a stable 780 nm femtosecond pulse train that just keeps going...

- Fully integrated optical and electronics head
- Single compact package
- Two pin +5 VDC connection
- >10 mW at 780 nm, 30 MHz repetition rate
- Pulse width < 100 fs
- $M^2 < 1.1$, beam diameter 1.5 mm
- Maintenance free
- Reliable operation
- Air cooling



Mendocino OEM seed laser

Scientific Version [\(FPL-03R\)](#)

Product features and benefits

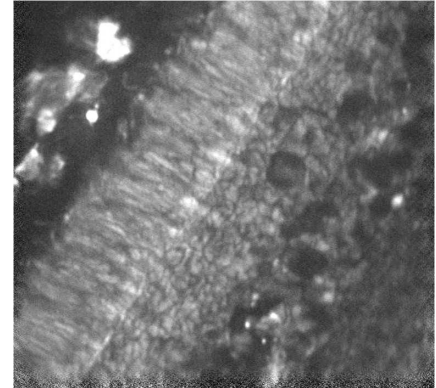


- SESAM mode-locking for long term stability and consistent operation
- > 50 mW at 780 nm, 50 MHz repetition rate
- Near transform-limited 100 fs pulsewidths for optimum peak power
- Gaussian beam profile ($M^2 < 1.1$) for high spatial resolution
- Turnkey system for instant turn-on performance
- Exceptional pulse-to-pulse stability for optimum signal-to-noise
- Low pedestal pulse shape for highest peak power
- Ruggedized design for reliable scientific and OEM operation
- Air-cooled design for ease of use



Product applications

- Biophotonics
- Nanolithography
- Multiphoton microscopy
- Optical metrology
- Terahertz radiation studies
- Seeding Ti:sapphire amplifiers



2-photon image of the retina,
courtesy of UC San Diego

Cazadero Fiber Laser Chirped Pulse Amplifier (FLCPA)

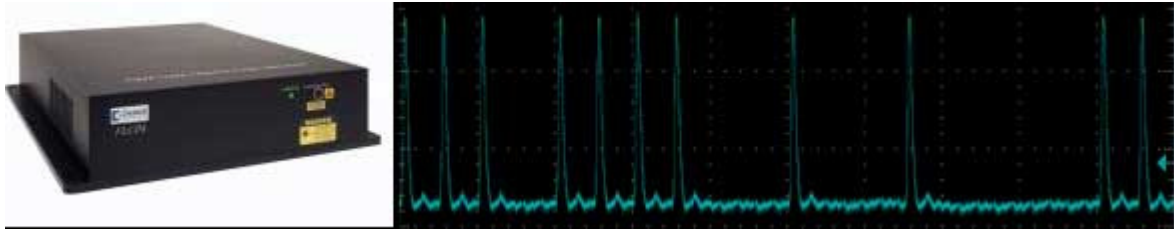
Product Features and Benefits

- All fiber-based amplifier for hands-free operation
- SESAM oscillator for long term stability and consistent operation
- High energy pulses ($> 10 \mu\text{J}$) at 1030 nm for surgical and micromachining applications
- Repetition rate up to 200 kHz
- Pulse width < 600 fs
- Gaussian beam profile ($M^2 < 1.2$) for optimum focused spot
- Excellent pulse-to-pulse stability for well-defined process control
- Low pedestal pulse shape for optimum peak power
- User friendly turn-on procedure for ease of operation
- Air-cooled design for ease of installation and integration
- Customizable pulse sequence on demand

Product Applications

- Precision surgery
- Micromachining
- Nanomaterials processing
- Biomedical imaging

- Nonlinear optical studies
- Ultrafast laser spectroscopy



The Cazadero's customizable pulse sequence enables a wide range of unique materials processing applications

About Calmar Laser

[Calmar Laser](#) manufactures innovative fiber laser and fiber amplifier solutions for OEM, industrial, medical and scientific applications. Since 1996 Calmar has been a key supplier and reliable OEM partner to customers for advanced high-speed test and measurement applications, optical communications, component characterization, material diagnosis, transmission, biomedicine and micromachining. Today, Calmar is an industry leader in supplying robust, compact, ultrafast fiber lasers designed for simple hands-off reliable operation.

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