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..... Enabling an Ultrafast World

1. Calmar Laser's Mendocino femtosecond fiber laser is featured in BioOptics World (BOW) ([click to download](#));

2. Calmar Laser will join our distributor, Skyray OE, to exhibit at [ILOPE-2010](#) in Beijing, China, October 27-29, 2010, booth number 4607.

• Showcasing products:

- Cazadero fiber laser chirped pulse amplifier up to 10 μ J at 1030 nm;
- Mendocino femtosecond fiber laser up to 4 W average power at 1030 nm;
- Mendocino OEM 780 nm femtosecond fiber seed laser for Ti:sapphire amplifiers;
- Coronado high power amplifier up to 5 W in 1550 nm or 1060 nm band for ps pulse train;
- Eureka ultrafast 10 GHz or 40 GHz fiber laser.

• Live demo products:

- Mendocino 780 nm 50 mW femtosecond fiber laser;
- Mendocino 1060 nm OEM seed laser module.

Mendocino 780 nm Femtosecond Fiber Laser Scientific Version ([FPL-03R](#))

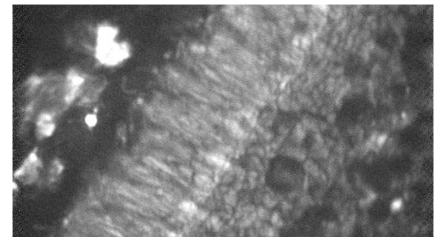
Product features and benefits

- 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

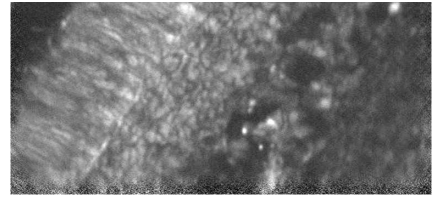


Product applications

- Biophotonics
- Nanolithography



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



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

Coronado Low Dispersion Fiber Amplifier for ps Pulses ([AMP-LD](#))

This high power optical fiber amplifier family provides optimum amplification for picosecond pulse trains with minimal broadening and distortion of the temporal profile and spectral signature.

- Wavelength: 1550 nm (C-band) or 1060 nm band;
- Average power: up to 5 W (37 dBm);
- Chromatic dispersion: < 0.03 ps/nm in C-band;
- Low nonlinearity;
- Low pulse and spectrum broadening;
- Randomly or linearly polarized output.



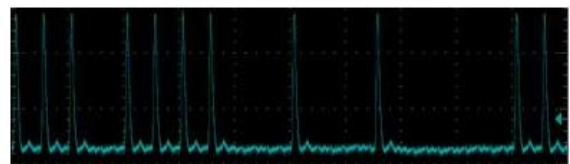
Cazadero Fiber Laser Chirped Pulse Amplifier ([FLCPA](#))

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



Customizable pulse sequence on demand

[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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