

Fiber-based Femtosecond Laser



Calmar Laser Inc. has introduced the Carmel, an all fiber-based femtosecond laser, which at 780 nm, 500 mW of power, 10 nJ of pulse energy, and less than 100fs pulse width, is suited for multiphoton microscopy, materials characterization, optical metrology, and more applications.

The Carmel CFL-05RFF0's compact head, push button start, air-cooled operation, and fiber delivery allow it to be integrated into existing microscopes and optical setups, with the entire assembly easily wheeled into a laboratory or operating room.

The laser has a Gaussian beam profile, typically with an $M^2 < 1.1$. Excellent pulse-to-pulse stability (<1% rms) combined with a clean spectrum and clean pulses over a wide operating temperature range (17 to 32 C) provides excellent results for both microscopy imaging and tissue ablation in biomedical applications.

Calmar Laser Inc., www.calmarlaser.com [1]

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[1] <http://www.calmarlaser.com/>