



Breaking the Quantum Barriers

For Immediate Release

Orbits Lightwave Now Offers the Eternal™ Fiber Laser with up to 20 GHz Fast Tuning Range

New tuning capability allows Orbits' Eternal™ lasers to be actively tuned over a 20 GHz range

Pasadena, Calif., February 1, 2007 – Orbits Lightwave, Inc., an innovative supplier of ultra-stable, low-noise fiber lasers today announced the addition of up to 20 GHz mode hop free fast tuning option to its growing line of Eternal™ fiber lasers. Building on the current family of products, this new tuning option allows the Eternal™ models to be modulated with high (>10kHz) bandwidth without sacrificing the low noise, narrow-linewidth and rock-solid stability that characterizes the Eternal™ series.

Eternal™ fiber lasers from Orbits Lightwave operate in the eye-safe telecommunications C-band wavelength range (1530-1565nm) and are also available between 1030-1080nm. Based on a novel and patented "virtual ring" laser architecture, Eternal™ fiber lasers offer breakthrough performance with high power (up to 200 mW without amplification), state of the art signal-to-noise ratio of 80 dB/Hz, best in the industry side-mode suppression ratio >75 dBc and shot-noise limited RIN. The Eternal™ lasers also offer the lowest phase noise (< 100 Hz/√Hz at 10 Hz) and the highest frequency stability (<10 MHz/ °C) of any commercial laser without active control. The Eternal lasers also benefit from Orbits industry leading StableLase™ technology that reduces the fiber laser susceptibility to acoustic noise and vibrations by more than 4 orders of magnitude (>8 orders of magnitude in noise power).

"This new tuning capability, which is immediately available to our customers, offers a unique coherent laser solution when high power, ultra-low noise and fast tuning is required," said Dr. Yaakov Shevy, Orbits Lightwave co-Founder and President. "The addition of 20 GHz tuning range is the latest release in the Eternal family and furthers the Orbits tradition of providing breakthrough industry leading performance."

About Orbits Lightwave:

Founded in 1999 and privately held, Orbits Lightwave, Inc. of Pasadena, Calif., designs, manufactures, and markets Fiber Lasers for sensing, LIDAR, test, and coherent communications. Orbits product R&D is ongoing under a number of contracts including a \$5.26M contract through DARPA's PHOR-FRONT program and a Phase II NASA SBIR on behalf of the space-born Laser Interferometer Space (LISA) experiment.

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Press Release