



Breaking the Quantum Barriers

For Immediate Release

Orbits Lightwave Introduces StableLase™ Technology for Laser Stabilization in Demanding Environments

Novel laser architecture greatly reduces laser susceptibility to harsh environmental conditions including shock and vibration

Pasadena, Calif., May 22, 2006 – Orbits Lightwave, Inc. (Orbits), an innovative supplier of ultra-stable, low noise fiber lasers today announced the availability of its patent-pending StableLase™ technology in the Eternal™ family of fiber lasers. StableLase™ technology ensures high stability and low noise performance under adverse environmental conditions including temperature cycling, shock and vibration.

Eternal fiber lasers from Orbits operate in the eye-safe telecommunications C-band wavelength range (1530-1656nm) and are soon available between 1030-1060nm. Based on a novel and patented "virtual ring" laser architecture, Eternal fiber lasers offer state of the art S/N and side-mode suppression, shot-noise limited RIN, ultra-low FM noise and excellent frequency stability with narrow (<1kHz) flicker line-width. Output powers to 100 mW (CW) are available in a compact package with low power consumption.

"Our Eternal family of fiber lasers offers researchers and system developers alike an attractive solution when high stability and low noise performance is required," said Dr. Yaakov Shevy, Orbits Lightwave co-Founder and President. "These lasers offer state of the art performance and are proving themselves to be the laser of choice for critical applications such as the DARPA PHOR-FRONT program and NASA's LISA experiment, which require low noise and high phase stability. With the development of StableLase™ technology, Orbits can now offer Eternal lasers as a field-deployable solution".

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