



KVH Unveils DSP-3000 Tactical-grade Fiber Optic Gyro

October 6, 2003

Ideal for Precision Navigation, Pointing & Stabilization, Robust New FOG Offers Higher Performance and Yields Significant Savings

MIDDLETOWN, R.I., Oct 6, 2003 (BUSINESS WIRE) -- KVH Industries (Nasdaq: KVHI) unveiled its new DSP-3000 Fiber Optic Gyro (FOG) today at the 2003 Association of the U.S. Army (AUSA) Conference. Based on KVH's patented Digital Signal Processing technology, the DSP-3000 provides true tactical-grade performance, small size, and a multi-axis modular design, all at a fraction of the cost of competing precision gyros.

"The DSP-3000 is the newest in our line of DSP-based, open-loop fiber optic gyros," explained Dan Conway, KVH's vice president of business development. "It is the ideal solution for motion sensing, stabilization, navigation, and precision pointing applications such as guided munitions navigation, industrial robotics, gun and antenna stabilization, and autonomous vehicles. Approximately the size of a deck of cards, the DSP-3000 offers outstanding versatility and a rugged design while achieving breakthroughs in performance as well as price. The new DSP-3000 is not only suitable for use in both military and commercial applications, it is also a fraction of the cost of competing ring laser and closed-loop fiber optic gyros."

Fabricated from KVH's proprietary polarization-maintaining fiber, the DSP-3000 includes a mature all-fiber optical circuit that offers exceptional low noise (ARW), insensitivity to cross-axis error, and shock and vibration robustness. Thanks to its reduced package size, 1-, 2-, and 3-axis configurations, and modular design, it will be a key component in the development of low-cost Inertial Measurement Units (IMUs), integrated GPS/Inertial Navigation Systems (INS), and precision Attitude, Heading, and Reference Systems (AHRS). KVH's DSP electronics improve performance in such critical areas as scale factor and bias versus temperature, scale factor linearity, turn-on to turn-on repeatability, and maximum input rate. The breakthrough DSP design (covered by multiple patents, including U.S. Patent #6,429,939, "DSP Signal Processing for Open Loop Fiber Optic Sensors") overcomes the limitations of analog signal processing, virtually eliminating temperature-sensitive drift and rotation errors.

The DSP-3000 is the latest addition to KVH's fiber optic gyro product line. KVH FOGs are used in diverse applications including IMUs for torpedos, precision tactical navigation systems for military vehicles, and image stabilization and synchronization for shoulder- or tripod-mounted weapon simulators. Platforms that depend on KVH FOGs include the U.S. Army Ground Prophet next-generation signal intelligence vehicle, the Javelin, Stinger, and ITAS weapons training simulators, stabilization systems for naval radar and missile defense systems, and KVH's new TracVision G8 marine satellite TV system, among others.

KVH Industries, Inc., designs and manufactures products that enable mobile communication, navigation, and precision pointing through the use of its proprietary mobile satellite antenna and fiber optic technologies. The company is developing next-generation systems with greater precision, durability, and versatility for communications, navigation, and industrial applications. An ISO 9001-registered company, KVH has headquarters in Middletown, Rhode Island, with a fiber optic manufacturing facility in Tinley Park, Illinois, and a European sales, marketing, and support office in Hoersholm, Denmark.

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