



## **KVH Industries Awarded Patent for Reduced Configuration Fiber Optic Gyro**

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MIDDLETOWN, R.I., May 17 /PRNewswire/ -- Already recognized as an innovator in the fields of satellite communications and precision navigation, KVH Industries (Nasdaq: KVHI) is now staking its claim as a leader in the field of fiber optic gyro development with a new patent for a streamlined, low-cost fiber optic gyro. The design, known as a Reduced Minimum Configuration, has been in use by KVH for some time and is the foundation for its low-cost E-Core(R) 1000 series FOGs. U.S. Patent #6,351,310, "Reduced Minimum Configuration Interferometric Fiber Optic Gyroscope with Simplified Signal Processing Electronics," formalizes and protects this new design.

"This patent takes a new look at the conventional wisdom behind the design of open-loop fiber optic gyros," explains Sid Bennett, KVH's vice president of fiber optic business development. "Our innovative approach eliminates several relatively expensive optical and electronic components that had been thought necessary for the construction of an optical gyro. At the same time, it also significantly reduces the number of steps required to assemble the optical circuit. When combined with an innovative signal processing method, this approach makes it feasible for KVH to build a low-cost fiber optic gyro with the precision required for such applications as robotics, automated guided vehicles, platform stabilization, and rotation sensing."

This is the latest announcement by KVH regarding the company's innovations in fiber optic gyro design. In April 2002, KVH introduced its DSP-5000, which combines KVH's proprietary polarization-maintaining optical fiber and fiber components with integrated digital signal processing. The result is a low-cost rate gyro that accepts data input as fast as 500 degrees per second, offers consistent accuracy over time and temperature, and is available for a fraction of the cost of competing precision gyros.

E-Core FOGs use KVH's proprietary polarization-maintaining optical fiber and fiber components and are highly reliable systems with no moving parts to wear out or require maintenance. FOGs provide extremely precise rotational rate information by measuring the phase difference between two paths of light traveling in opposite directions through an optical fiber. Their precision results in part because of their lack of cross-axis sensitivity to vibration and acceleration. KVH FOGs also have low noise and high bandwidth, essential to navigation, rotation sensing, and stabilization applications.

KVH Industries Inc., designs and manufactures products that enable mobile communication, defense navigation, and direction sensing 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 Illinois, and a European sales, marketing, and support office in Hoersholm, Denmark.

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