KVH Awarded Patent for Noise Reduction in Fiber Optic Gyros; Optical Amplifier Reduces Angle Random Walk Noise in Fiber Optic Sensors, Improves Accuracy of FOG Products

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MIDDLETOWN, R.I.--(BUSINESS WIRE)--Feb. 2, 2005--KVH Industries, Inc., (Nasdaq: KVHI) announced today that it has been awarded U.S. Patent #6,836,334, "Angle Random Walk (ARW) Noise Reduction in Fiber Optic Sensors Using an Optical Amplifier," for its fiber optic gyro (FOG) line. The invention includes a system and method for reducing a component of the ARW noise in a fiber optic sensor. This reduction has the potential to increase the precision and accuracy of KVH's family of FOGs, which are used in a wide variety of commercial and military applications.

"KVH continues to invest in research efforts such as ARW noise reduction in order to improve upon the performance and accuracy of our FOG products as well as build on our strong intellectual property position," said Jay Napoli, director of FOG/OEM sales for KVH. "With high volume production of the DSP-3000, single- and dual-axis DSP-4000s, and the TG-6000 inertial measurement unit (IMU) now in place, KVH continues to provide a wide range of affordable FOG solutions for the most demanding pointing, stabilization, and navigation applications."

With their all-fiber design and patented Digital Signal Processing (DSP), KVH's FOGs offer high reliability, superior accuracy and performance, and exceptional vibration, shock, and acceleration survivability at an affordable cost. 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. And with no moving parts to maintain or replace, KVH's DSP series FOGs last longer than their mechanical predecessors, perform better, and yield a significantly lower lifetime cost.

KVH precision FOG products, such as the DSP-3000, DSP-4000, and TG-6000 IMU are used in diverse commercial and defense-related applications requiring a high level of accuracy. Military applications include IMUs for torpedoes, precision tactical navigation systems for military vehicles, and image stabilization and synchronization for shoulder- or tripod-mounted weapon simulators. Platforms that use KVH FOGs include the U.S. Army Ground Prophet next-generation signal intelligence vehicle; the Javelin, Stinger, and ITAS weapons training simulators; and stabilization systems for naval radar and missile defense systems, among others. KVH FOGs have also been used in such commercial applications as train location control and track geometry measurement systems, industrial robotics, stabilization of TV cameras, and KVH's own TracVision(R) G8 mobile satellite TV antenna.

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-certified company, KVH has headquarters in Middletown, Rhode Island, with a fiber optic and military navigation product manufacturing facility in Tinley Park, Illinois, and a European sales, marketing, and support office in Kokkedal, Denmark.

This release may contain certain forward-looking statements that involve risks and uncertainties. Forward-looking statements include, for example, the functionality, characteristics, quality and performance of KVH's products and technology; anticipated innovation and product development; competitive position and capabilities, and customer preferences, requirements and expectations. The actual results could differ materially. Factors that may cause such differences include, among others, the inherently unpredictable purchasing schedules and priorities of the U.S. military and foreign governments; the failure to develop and successfully market FOGs for commercial applications; and those discussed in KVH's most recent Form 10-Q filed with the SEC. KVH assumes no obligation to update its forward-looking statements to reflect new information or developments.

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