



KVH Introduces World's Smallest Precision Fiber Optic Gyro

June 17, 2009

--New KVH DSP-1500 fiber optic gyro, with 1.5-inch diameter sensor, offers breakthrough blend of accuracy, low cost, and reliability for stabilization and pointing applications

MIDDLETOWN, R.I., June 17, 2009 /PRNewswire-FirstCall via COMTEX/ -- As compact stabilized optics and pointing systems gain in popularity on land vehicles, aircraft, and vessels, engineers have had difficulty finding ultra-compact gyros that offer the performance and long-term reliability required for smaller and lighter applications. KVH Industries' (Nasdaq: KVHI) new DSP-1500, a miniature, lightweight addition to its successful line of fiber optic gyros (FOGs), is designed to meet these requirements affordably. With a single continuous length of optical fiber wound into a housing only 1.5 inches in diameter, the DSP-1500 offers outstanding performance in an ultra-compact, lightweight package for flexible installations and demanding commercial stabilization and pointing applications.

"Our new DSP-1500 fiber optic gyro delivers exceptional reliability and precision along with a compact design that is truly a departure from other FOGs on the market," explains Jay Napoli, KVH's vice president of FOG/OEM sales. "The DSP-1500's optical sensor is tethered to the power and processing electronics, offering engineers and systems integrators tremendous flexibility during installation. The DSP-1500 is also more affordable than many other FOG solutions while still providing highly accurate stabilization and pointing. As a result, we are able to offer a precision FOG suitable for applications previously unable to use FOGs due to size and weight restrictions, such as night vision and thermal imaging systems, aircraft-mounted gimbaled cameras for law enforcement and homeland security, and shipboard optical systems."

The DSP-1500 is an attractive alternative to other gyro-based stabilization solutions because its optical sensor is only 1.5" in diameter and 0.8" tall, and weighs just 0.09 lbs. Thanks to the tethered design, the sensor itself can be installed separately from the power and processing circuit boards. However, the small size of the DSP-1500 doesn't mean that the unit sacrifices precision and reliability. With a scale factor of 0.1%, and bias stability of <5 degrees/h, it offers extremely low noise and high bandwidth for operation in a wide range of environmental conditions.

Like KVH's other FOG products, the DSP-1500 relies upon KVH's patented Digital Signal Processing (DSP) electronics design, which offers significant performance improvements in such critical areas as bias stability, scale factor linearity, turn-on to turn-on repeatability, and high bandwidth. KVH's DSP electronics design also overcomes the limitations of analog signal processing, virtually eliminating temperature-sensitive drift and rotation errors. As a result, the exceptional low noise (ARW), insensitivity to cross-axis error, and shock and vibration robustness make the DSP-1500 ideal for a variety of demanding applications, including those that require precise measurement of rate and turning angle.

Visit <http://www.fiberopticgyro.com> for more information about the DSP-1500 and the rest of KVH's complete line of FOG products.

Note to Editors: Visit <http://press.kvh.com> for high-resolution, press-ready images of the DSP-1500 available for download and editorial use.

About KVH Industries, Inc.

KVH Industries is a leading manufacturer of solutions that provide global high speed Internet, television and voice services via satellite to mobile users at sea, on land, and in the air. KVH is also a premier manufacturer of high performance sensors and integrated inertial systems for defense and commercial guidance and stabilization applications. The company is based in Middletown, RI, with facilities in Tinley Park, IL, and Kokkedal, Denmark.

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