

Position Precision with the VG800

Willow Technologies Limited (www.willow.co.uk) introduces the Industry's first high-speed solid-state true vertical gyro with the speed and accuracy necessary to accurately measure roll and pitch in dynamic environments such as camera and antenna stabilization, artificial horizon applications, automotive testing, marine motion monitoring, unmanned vehicle orientation sensing and stabilization.



By utilizing the latest MEMS Technology the Memsic VG800 delivers a much more cost-effective solution than its mechanical predecessors while delivering outgoing performance similar to vertical gyros. With its DSP technology and proprietary algorithms, the VG800 goes well beyond existing rate sensor and six-axis solutions, making it a superior replacement for older mechanical sensor technology. Sophisticated software calculates instantaneous angle from the rate sensors and uses the accelerometers to correct for drift and to provide a gravity reference, resulting in functionality equivalent to the traditional mechanical gyro.

The VG800 provides stabilized roll and pitch (artificial horizon) output with an instantaneous initial erection rate compared to the traditional spin-up of several minutes. Existing six-axis accelerometer/rate sensor solutions provide direct acceleration and rotational rate data but do not provide the stabilized angle information required for most gyro applications.

Said Martin Pearce, Marketing Director of Willow Technologies Ltd, "The VG800 establishes a new level of performance for standalone 'unaided' inertial systems. It combines advanced MEMS rate gyro and accelerometer technologies with MEMSIC's Kalman filter algorithms, providing a superior solution for measurement of dynamic roll and pitch angles in highly demanding environments."

ENDS

Editor Information

Founded in 1989, Willow Technologies is located in Lingfield, Surrey, UK. We provide electronic solutions to customers by designing, manufacturing and supplying components and systems globally to the electrical and electronic marketplace. Specialists in switching, sensing, resistive and hermetic seal solutions we have a wide portfolio of sensing technologies and over 60 years of application experience. Our in-house engineering capability and rapid prototyping facility for custom parts enable us to develop products to match specific application requirements. Willow is ISO9001:2000 registered.

Please contact Martin Pearce, Marketing Director, mpearce@willow.co.uk, +44 (0) 1342 717102