

Broadband News Update



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24 JAN 08 INVENSENSE INTRODUCES THE WORLD'S SMALLEST DUAL-AXIS GYROSCOPE

InvenSense, the leading provider of award winning motion sensing solutions for portable consumer electronics, today announced the introduction of the IDG-1100 family of dual-axis gyroscopes, the world's smallest solution at 4 x 5 x 1.2 mm. InvenSense's dual-axis gyroscopes, which integrate both the micro-electromechanical system (MEMS) resonating structures and compensating complimentary metal oxide semiconductor (CMOS) electronics at the silicon wafer level, is 25% smaller than any competing dual-axis gyro solution on the market today.

The IDG-1100 product family targets cost sensitive and size-constrained portable consumer applications such as digital still cameras (DSC) and camcorders for image and video stabilization, portable navigation devices (PND) for dead reckoning when GPS signals are lost or corrupted, and 3D motion sensing devices such as air mice and audio/video remote controls for television and multimedia centers and game controllers.

InvenSense continues to leverage its proprietary and patented Nasiri-Fabrication to offer the best-in-class products that surpass all alternative solutions in size, performance, reliability and robustness. The key technological breakthrough stems from its novel wafer-level integration of MEMS wafers with the sensing elements to CMOS wafers with compensation electronics. This wafer integration provides for complete hermetic sealing of the sensing elements while integrating it to its electronics.

Using an integrated, single chip solution enables both X and Y sensing elements to be simultaneously fabricated on the same silicon. This solution produces superior cross-axis sensitivity compared to most other products that require individual sensor mounting or sensing elements glued to the package at the assembly level. Furthermore, by providing complete hermetic sealing of the sensing elements at wafer level, the integrity of the sensitive moving parts are preserved through out the life of the product, making it insensitive to a humid environment. Finally, using bulk silicon MEMS technology provides for a robust solution that is capable of handling shocks as high as 10,000 G, which is crucial for most portable consumer electronics vulnerable to frequent drops on hard surfaces.

"We are continually striving to offer the leading motion sensor solutions in the market that meet or exceed customers' application requirements," stated Steven Nasiri, InvenSense's CEO and founder. "With millions of gyroscopes already shipped to leading customers in the DSC, PND and 3D device markets, we are very proud to continue to bring to market products that are at the forefront in advancements for the industry and that provide customers with solutions that are enabling pervasive features in the portable consumer electronics market."

Read more about Invensense >> <http://www.bt2000.co.uk/page24.htm>