Freespace® MotionEngine™ Mobile is a software package which delivers high performance, low power, and sensor independent motion processing for Smartphones and Tablets. Individual sensor data is transformed through advanced calibration and sophisticated sensor fusion into application ready data which powers motion apps including context awareness, advanced gaming, augmented reality, and even pedestrian navigation.

**MOTIONENGINE MOBILE BENEFITS**

**Low Power Sensor Fusion**

With a proven Windows® 8 sensor hub and intelligent sensor management, MotionEngine™ Mobile saves power.

**High Performance for New Apps**

High performance sensor fusion is the foundation for context awareness and pedestrian navigation, and improves gaming and gesture control.

**Low Costs with Sensor Independence**

Unique sensor qualification lab enables optimal motion performance with any combination of sensor from leading brands.

**KEY FEATURES**

- Low Power Sensor Fusion
- Zero Gyro Drift
- Automated Magnetic Calibration
- Flexible Implementations
- Sensor Independence
- Sensor Qualification Lab Approved
- Motion Systems Testing Lab
MotionEngine™ Mobile

KEY FEATURES

MotionEngine™ Mobile offers a complete package of features to meet the needs of the mobile market. These include:

• **Low Power Sensor Fusion** – Sensor fusion optimized for low-power operation through sensor hubs and intelligent sensor state management.

• **Zero Gyro Drift** – Automated, real time calibration eliminates drift with no user calibration requirements.

• **Automatic Magnetic Calibration** – Automated, real-time calibration removes hard and soft iron effects.

• **Flexible Implementations** – Available for Windows® and Android®, and compatible with sensor hub or application processor based architectures.

• **Sensor Independence** – Compatible with accelerometers, magnetometers, and gyroscopes from any leading suppliers, creating supply chain flexibility.

• **Sensor Qualification Lab Approved** – Unique sensor qualification process improves performance and increases the value of all sensors.

• **Motion Systems Testing** – Proprietary testing procedures available exclusively to our partners ensure high-quality, reliable motion on Freespace® systems.

APPLICATIONS FOR ADVANCED MOTION

- Augmented Reality
- Context Awareness
- Indoor Navigation
- Immersive Gaming
- Smart TV Control
- Gesture Recognition

ASSOCIATED HILLCREST PRODUCTS

- Gesture Recognition Engine
- Context Awareness Library
- Cursor Library

FOR MORE INFORMATION