

SOLUTIONS FOR:



Engineers

Stay focused on your own product innovation and rely on our sensor expertise.



CTOs & Project Managers

Speed your time to market for your next-gen products.



Purchasers

Discover a trusted partner with flexible business models to meet your needs.



Your Customers

Make customers happy with innovative features that can be easily integrated into your product.

MOTION SENSORS FOR LOW-LATENCY 3D AUDIO HEAD TRACKING

3D audio can truly immerse a user in a new space. Sounds from a real-world source reach each ear at a different time, and your brain interprets these differences in time to determine directionality. Recreating these audio cues for a truly 3D experience requires accurate, low-latency head tracking.

Our predictive head tracking anticipates movement to calculate sound cues ahead of time, delivering a low-latency experience. Combined with high sample rates, our products help ensure a true-to-life experience. Dynamic calibration maintains a high level of accuracy over time and temperature changes. And activity classifiers help you effectively manage power consumption when someone takes off or puts on the device.

If your application requires absolute heading, our 9-axis IMUs offer fast magnetometer calibration and advanced magnetic interference rejection. If you need a more stable output with relative heading, our 6-axis capable IMUs ignore all magnetic interference. Both utilize our MotionEngine™ sensor fusion technology to provide high dynamic accuracy, so whichever route you take, you'll be able to deliver a great-sounding, truly immersive experience.

FLEXIBLE SOFTWARE, CHIP LEVEL & MODULE LEVEL PRODUCTS

All of our hardware components include our MotionEngine™ sensor fusion technology.

BNO085 IMU	MOTIONENGINE SENSOR FUSION SOFTWARE	DEVELOPMENT KITS
<p>A convenient System-in-Package (SiP) with a 9-axis sensor and sensor fusion—a pin-for-pin replacement of BNO055</p> 	<p>Versatile and powerful sensor fusion software, delivered into more than 100 million consumer electronics devices</p> 	<p>Demonstration and evaluation platforms for our most popular products</p> 

GET STARTED TODAY

Our expertise built from over 15 years of developing sensors and sensor fusion software hasn't gone unnoticed. We've been trusted by major brands such as LG, Samsung, TCL, Sharp, and more, with over 100 million products shipped. We're ready to work with your technical team to support integration of our technology into your 3D audio application. To learn more, contact us online at hillcrestlabs.com/contact.

