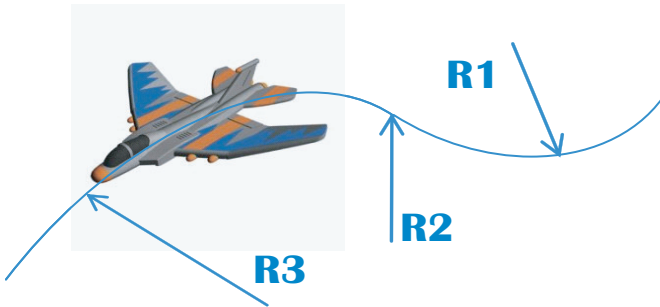


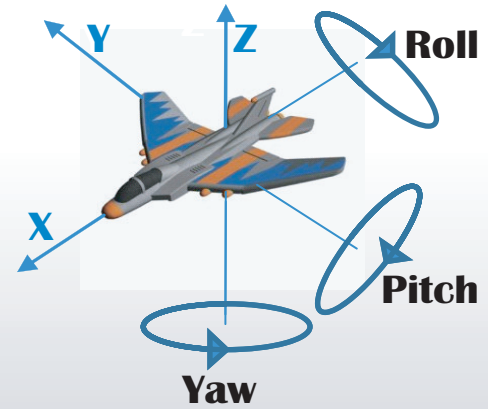


## Revolution in Motion

The clarity of classic motion law equations quickly gets obscured when applied to real life objects moving through environments with varying properties and interfering forces. Keeping moving objects flying, swimming and rolling on track is a serious challenge which requires precision equipment and complex calculations.



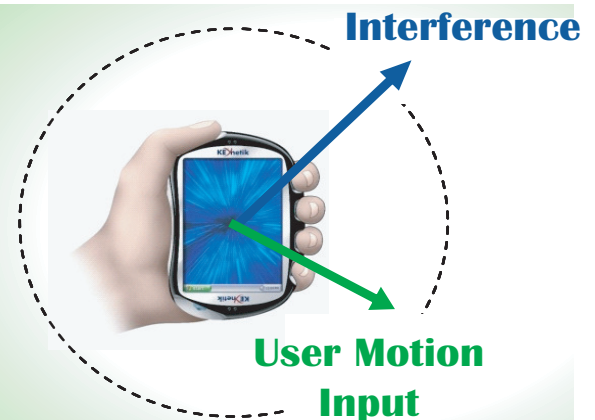
**Accelon™**, the breakthrough KEYnetik technology is making this task easier. Two or more identically oriented inexpensive and commercially available motion sensors (accelerometers) powered by KEYnetik software create a virtual gyroscope with unique ability to instantly determine the curvature of an orbit/trajectory an object is moving on in space.



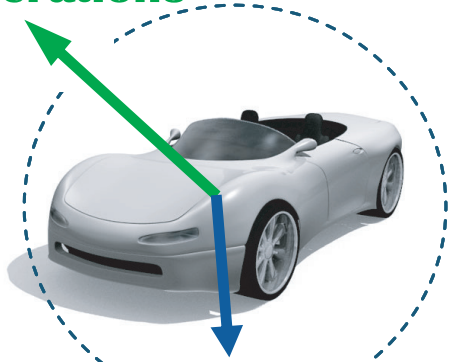
The concept draws on the same design principle which provided us with a pair of eyes and ears so we can establish direction and distance to a source of light and origin of sound. Like stereoscopic vision or stereo hearing enhances our perception of reality, **Accelon™** dramatically improves detection of motion by using signals from two sensors separated by space.

**Accelon™** senses pitch, yaw and roll rotations like a gyroscope and lateral translations like an accelerometer - all six degrees of freedom - something that neither the gyroscope or accelerometer can do alone.

The intrinsic ability of **Accelon™** to calculate radius of rotation allows it to filter motion signals by distance and direction to the point of rotation, as well as amplitude and pattern in time. This makes it possible to control an **Accelon™** enabled handheld device with motion commands in a moving car. Motion signals from the human wrist can be easily separated from interfering signals caused by steering, accelerations and road bumps.



## Turns and Accelerations



## Disturbances

Another example of **Accelon™** power is in navigation applications. Here it can accurately calculate turns and straights required for dead reckoning in GPS systems and filter out shocks caused by rough terrain and other disturbances. Needless to say, enhanced driving performance monitoring, rollover alarms and security triggers will be available without a cost premium.



In static environments, such as homes and classrooms, **Accelon™**'s ability to sense and analyze motion in all dimensions can provide a real life gaming and training experience. Golf swings, tennis backhands and fencing lunges can be dissected with scientific precision, emulated in slow motion and practiced to perfection.

# Accelon™ Applications

### Natural User Interfaces

- Cellular Phones and Converged Handhelds
- Pointing Devices
- Wearable Computers



### Stabilization of Images and Objects



- Video and Still Cameras
- Binoculars and Telescopes
- Antennas and Light Sources
- Platforms and Objects

### Navigation and Vehicle Stability

- Dead Reckoning in GPS units
- Black Box and Driving Performance Monitors
- Skid Control and Rollover Alarms
- Security Alarms and Triggers



### Gaming, Training and Entertainment

- Enhanced User Interfaces
- Emulation of Real Life Motion
- Control of Virtual and Physical Objects
- Universal Remotes Controls

