

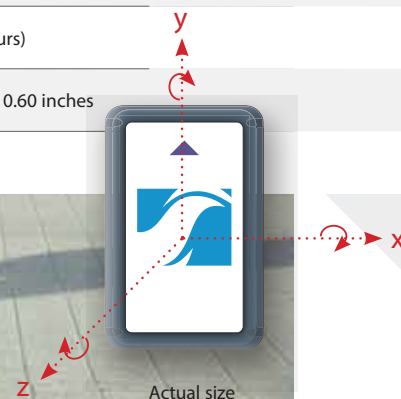
# Wireless Motion Sensor

## Compact, Portable Technology for Kinematics

The GLNT wireless motion package integrates accelerometers and gyroscopes with Bluetooth® technology to capture three-dimensional motion during unconstrained activity. Kinematic data can be streamed wirelessly in real-time or stored in memory and later downloaded. An inductive pad is used for wireless charging. A software application provides an interface for quickly connecting up to four motion sensors and streaming data to a PC. In addition, software development kits are available for custom software development in applications such as MATLAB®, LabVIEW™, and other Windows-based environments.

Wireless Motion Sensor Unit Specifications

Sensor	Angular Velocity	Acceleration
Sensor type	MEMS gyroscope	MEMS accelerometer
Number of channels	3 orthogonal channels	3 orthogonal channels
Range	$\pm 2000$ deg/sec	$\pm 5$ g
Accuracy	$\pm 4\%$ of measurement	$\pm 2\%$ of measurement
Resolution	1 deg/sec	2 mg
Noise	.5 deg RMS	1.5 mg RMS
Sampling rate	64 samples per second	
Bluetooth	Class 2 device, Bluetooth 2.0	
Battery life	8 hours logging (3 hours streaming)	
Recharge time	1 hour 90%; 3 hours 100%	
Memory	16 MB (8 hours)	
Dimensions (L x W x H)	1.28 x 0.81 x 0.60 inches	
Weight	0.30 ounces	



# Sensor Software Options

[glneurotech.com/motion-sensor-software/](http://glneurotech.com/motion-sensor-software/)

## GLNT Motion Capture Software

The motion sensor comes with data collection software integrating simple tools for data collection. The software allows a user to search for sensors, connect via Bluetooth, stream, and save data for up to 4 sensors. Data is saved in ASCII format for import into third party analysis packages.

## Software Development Kit

The software development kit, available for FREE download, allows for customer software development including displays and analysis written in applications such as MATLAB®, LabVIEW™ and other Windows-based development environments. The package includes the APIs as well as example code written in both MATLAB and LabVIEW to get developers up and running quickly.

