

High-Precision Wireless Motion Sensor



IMS-SD

Inertial Measurement Sensor

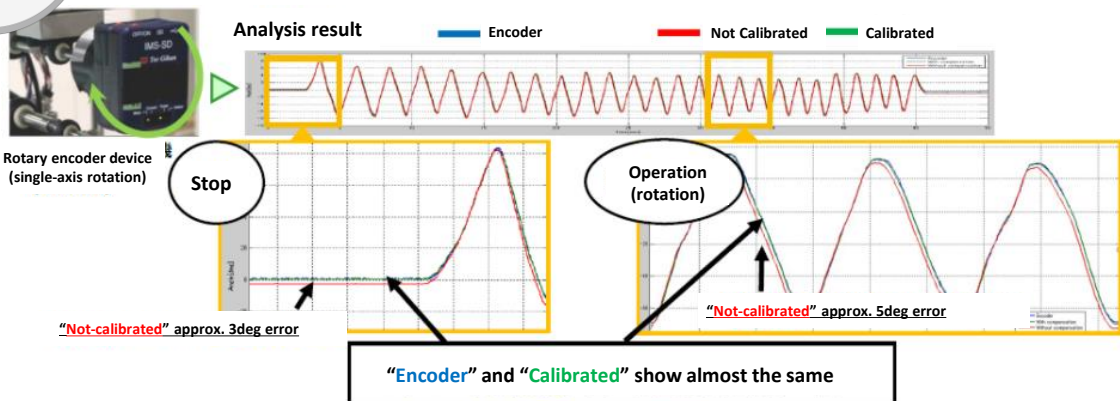
Ultra-compact Motion Sensor with a Built-in Battery and Memory

Features 1

- ◇ Calibrated acceleration and angular velocity improve accuracy.
- ◇ Geomagnetic calibration can be performed on site.
- ◇ High-speed sampling at 1000Hz in offline measurement.
- ◇ Wireless operation with automatic REC function.
- ◇ Long-hour measurement while supplying power.
- ◇ Simultaneous control of up to 20 units.
- ◇ Roll, pitch, and yaw angles by posture angle calculation using the Kalman filter.

Features 2

Calibration per device.
Offset, sensitivity and interference corrections ensure accuracy!



Options

IMS-SD Control Software

Software for wireless control of IMS-SD.
Up to 20 IMS-SDs can be controlled together.
Graph monitoring, PC data recording (Max.100 Hz),
wireless data collection and data deletion also
available.



IMS-SD Remote (WTRC-T)

Infrared TRIG transmitter to synchronize the
recording timing between IMS-SDs or IMS-SD and
external devices. Transmits an infrared, contact
or TTL \pm signal at the same time as the button is
pressed.



IMS-SD Data Trimming Software

This software trims arbitrary sections and
converts them to CSV to reduce the volume of
acquired data when measured over a long period,
which allows easy handling of data.



IMS-SD Storage Case

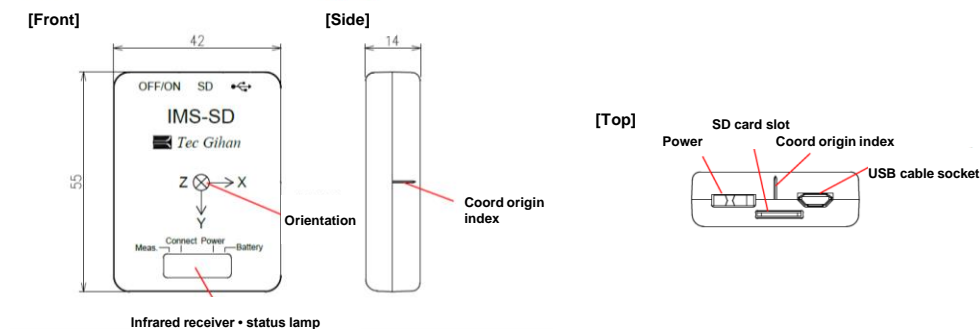
An aluminum wheely case that can hold 20
IMS-SDs as well as cables and accessories.



Specifications

Model	IMSSD-H-A		
Sampling frequency	Max. 1000Hz (1/5/10/50/100/500/1000Hz)		
Communication method	Bluetooth		
Operational temperature range	0~50°C, ≤85%RH (No-condensation)		
Continuous operation hours /Charging time	Approx. 2.5 hours		
External dimensions	54x42x15(H) mm		
Integrated sensors	Acceleration	Angular velocity	Geomagnetic
	Range	±4/±8/±16/ ± 30 G	±4000 deg/ s
	Resolution	12-bit	16-bit
	Sampling frequency	1000 Hz	1000 Hz
Standard accessories	Micro SD card, Micro USB cable (charging)		
Optional accessories	IMS-SD Control Software, IMS-SD Data Trimming Software, IMS-SD Remote, Storage case		

Dimensions



< IMS-SD Posture estimation data > Optimized for an environment where gravity acceleration is dominant.
The posture estimation algorithm may not be applied depending on an acceleration environment.

***The design and specifications are subject to change without prior notice.**

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