IMeasureU

Sensor
Specification

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imeasureu.com
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VICON

Sensor Specification

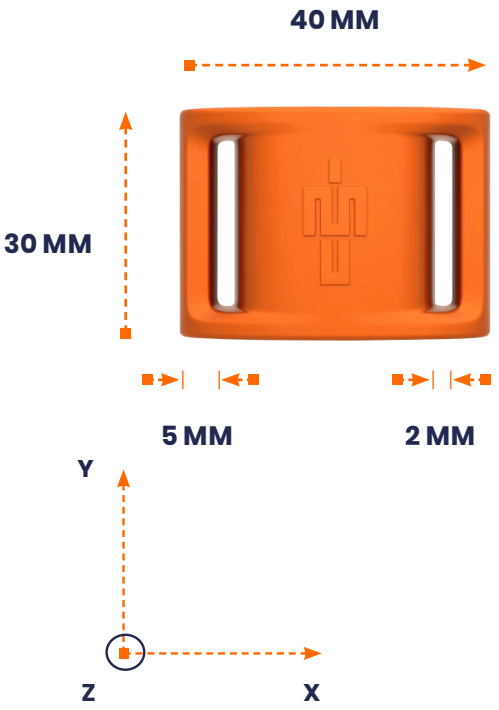
The IMeasureU BlueThunder sensor is based on the smallest, lightest, and most robust wireless inertial measurement unit (IMU) in the world. The physical unit is packed with sensors, where measurements can either be stored on board, or transmitted wirelessly to a computer or smart phone in real-time.

Data from up to 6x IMU sensors can be integrated with Vicon Nexus software. The packaged sensor and iOS application is easy to use, providing accurate and precise measurements. Our versatile BlueThunder sensor is fast-charged via micro USB. BlueThunder is durable, lightweight and reliable.

Features

- 9-axis wireless streaming real-time at 100Hz
- 3-axis accelerometer streaming real-time at 500Hz
- 9-axis data logging at 500Hz
- 3-axis accelerometer data logging at 1000Hz
- Time-synchronise up to 8 sensors
- Vicon Nexus integration
- Logged data download via micro USB cable
- Recharge via micro USB in 2 hours
- Typical run time is 4-6 hours
- iOS data acquisition app available
- Light weight, robust, beautiful

Dimensions



General

Part Number	IMU-BLUETHUNDER V1.50
Dimensions	40mm x 30mm x 15mm
Weight	12 grams
Charge Voltage	5V micro USB
Wireless	Bluetooth Low Energy
Range	Up to 30m
On-board storage	32 hours of data
Charge time	2 hours
BT Sampling time	2-6 hours
SD Sampling time	2-6 hours

Sensor

Accelerometer range	±16g
Accelerometer resolution	16-bit
Gyroscope range	±2000°/s
Gyroscope resolution	16-bit
Compass range	±1200 µT
Compass resolution	13-bit

Applications

- Animation
- Motion capture
- Performance arts
- Performance sports
- Healthcare monitoring
- Mobility monitoring
- Gaming & motion control
- Robotics

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Thank You

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