



# I Measure U



# Sensor

## Specification



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**WRITTEN BY:**  
ANDREW WONG  
RAKESH VALLABH

**MORE INFO:**  
[imeasureu.com](http://imeasureu.com)  
[vicon.com](http://vicon.com)

# Sensor Specification

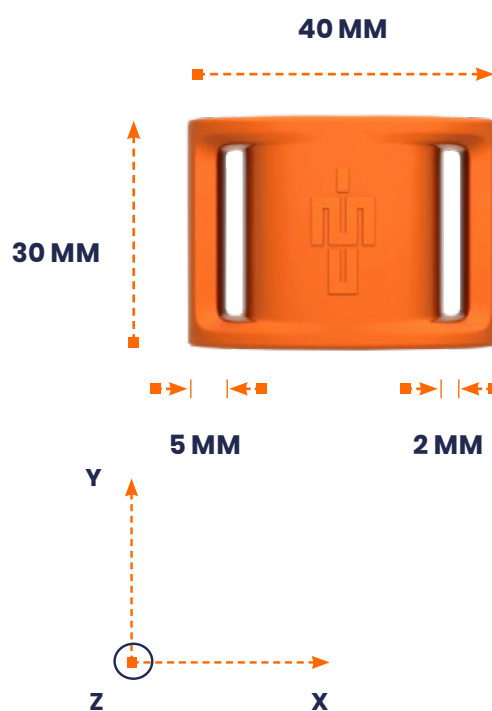
The IMeasureU BlueThunder sensor is based on the smallest, lightest, and most robust wireless inertial measurement unit (IMU) in the world. The physical unit is packed with sensors, where measurements can either be stored on board, or transmitted wirelessly to a computer or smart phone in real-time.

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




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

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

## Applications




Animation



Motion capture



Performance arts




Performance sports



Healthcare monitoring



Mobility monitoring



Gaming & motion control



Robotics



FCC ID DMR-IMUAP1  
IC: 11323A-IMUAP1  
MODEL V1








# I Measure U

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# Thank You