



VICON

Blue Thunder IMU

Small.Light.Accessible

Pioneering motion capture since 1984.

Small. Light. Accessible



Vicon Blue Thunder is a small and lightweight IMU providing you with full control of your IMUs through either Vicon Nexus or the iOS Research App.

Free your subject, using Blue Thunder IMUs and iOS applications. IMUs are easy to use out of the box, providing flexible and reliable measurements. Define how and where you record measurements by choosing to stream data to the paired iOS device, or go for a distraction-free analysis with data logged direct to the IMU. Using the micro USB interface and the Vicon IMU Lightning app, download data while simultaneously charging the IMUs. You can access and share data quickly and easily from the app or higher frame rates via direct data download: our users get to define the way they work.

IMU Features

- Three speeds of operation, 100, 250 and 500 Hz
- Recharge via micro USB in 2 hours
- Typical run time is 4–6 hours
- Data download via USB

IMU Research Features

- Fully mobile iOS-based app (iPhone and iPad)
- Easy data sharing via Email or iCloud at 100 Hz
- High frequency data recording direct to the on-board memory at 500 and 1000 Hz
- Time-synchronize up to eight sensors using IMU software

General	
Dimensions	40 x 30 x 15 mm
Weight	12 grams
Charge voltage	5 V micro USB
Wireless	Bluetooth Low Energy
On-board storage	4 GB
Charge time	2 hours
BT sampling time	2–6 hours
SD sampling time	2–6 hours

Integration with Vicon Nexus

Add inertial sensors into the optical world. Blue Thunder IMUs can be added into your Nexus environment as digital devices.

Vicon Nexus Features

- Preview data in real-time
- Recorded data written direct to the IMU at all speeds
- Vicon Nexus integration, up to four sensors

Applications

- Sports biomechanics
- Mobility monitoring
- Wearable movement assessment
- Athlete performance tracking

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

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