



Acceleration, Gyroscope, Magnetometer, Quaternion and Euler Angles Bluetooth Data Presentation and Logger

- * Bluetooth 5.0 technology and Nordic nRF52 chip.
- * Mobile app support Android and IOS and gateway
- * Small size, light weight and low power consumption.
- * Extremely fast upload speeds of up to 250Hz.
- * Large data storage capacity.
- * Intuitive Line Graph Presentation.
- * Motion Presentation of the 3D model.



Features

- * High accuracy and stability
- * Bluetooth 5.0
- * Long distance radio transfer
- * On-board highly sensitive acceleration, gyroscope and magnetometer sensor
- * Real-time display acceleration, gyroscope, magnetometer, quaternion and Euler angle data
- * Real-time display of 3D model movement
- * It can store acceleration, gyroscope, magnetometer, quaternion and Euler angle data and each time stamp
- * It can export the recorded data to an Excel file
- * LED light indicates the working status
- * It can set parameters such as data upload intervals
- * Repeatable in-line magnetic calibration for data accuracy in different environments
- * wireless charger Li-ion battery charging

Specifications

- * 2.4GHz radio frequency band.
- * Bluetooth 5.0 protocol standard.
- * Configurable data upload rate of 4-1000 ms, Default is 8ms.

- * Operating voltage is 3.0-4.2V.
- * The content of the recorded data is acceleration, gyroscope, magnetometer, quaternion and Euler angle data of each time stamp.
- * Operating temperature range of -20 to +60°C.
- * Transmission distances of more than 20 meters in open spaces.
- * Acceleration range $\pm 2g$ for more accurate movement data.
- * Magnetometer range is $\pm 800\mu T$.
- * Gyroscope range $\pm 2000^\circ/s$.

This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) this device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

Any changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

NOTE: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

The device has been evaluated to meet general RF exposure requirement. The device can be used in portable exposure condition without restriction