LPEMMG-B2 PLUS

LIFE PERFORMANCE RESEARCH

Wireless wearable sensor for human motion and EMG/MMG signals acquisition: cable surface electrodes

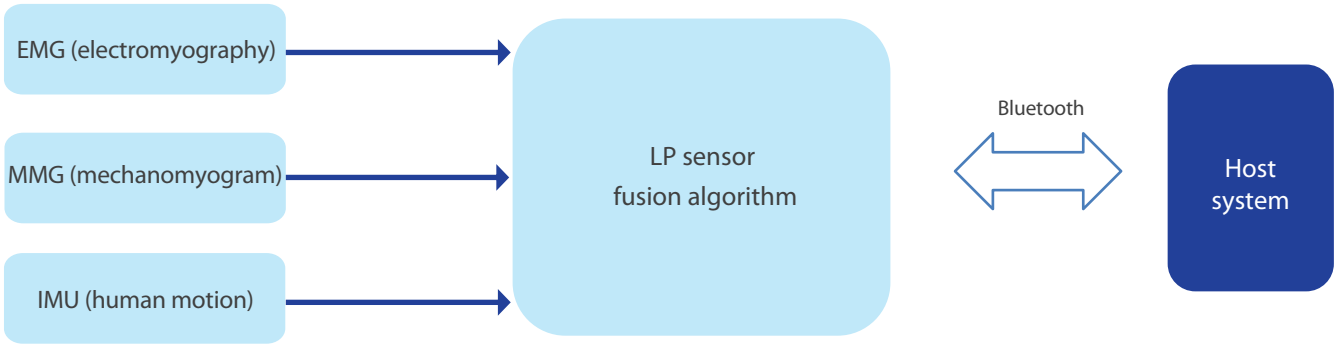
The LP-Research electromyography (EMG)/ mechanomyogram (MMG) sensor Bluetooth version 2 Plus (LPEMMG-B2 PLUS) is a miniature electromyography/mechanomyogram measurement solution. It uses medical type of cable surface electrodes for EMG signal measurements and microphones for recording muscle sounds. An intertial sensor is also integrated for human motion capture.

Main Features

- integrating EMG/MMG measurements
- use of medical type of cable surface electrodes
- integrating 3 axis accelerometer, 3 axis gyro and 3 axis magnetometer
- max sampling rate of EMG: 2000Hz
- wireless communication: Bluetooth Classic 2.1
- SDKs for Windows, Linux and Android systems

Application:

- Internet of things (IOT)
- Motion analysis
- Rehabilitation
- Healthcare



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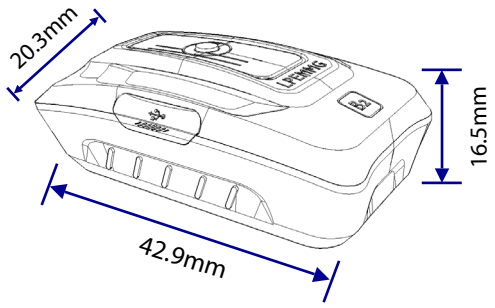
Specification

Parameter	LPEMMG-B2 PLUS
Size	42.9×25.4×16.5mm
Weight	18.5g
Bluetooth	BT 2.1+EDR，2.142-2.484 GHz
Communication range	＜18 m
EMG sampling rate	~2000Hz
MMG sampling rate	~1600Hz
IMU sampling rate	~1600Hz
EMG ADC resolution	16 bits
MMG sensitivity	-26dBFS
MMG SNR	64 db
Power supply	Lithium battery 3.7v@130mAh
Power consumption	＜70mA@3.7V
Drivers	Windows, Android and Linux

* MMG signal is an optional output. Please contact us for more information.

Dimension

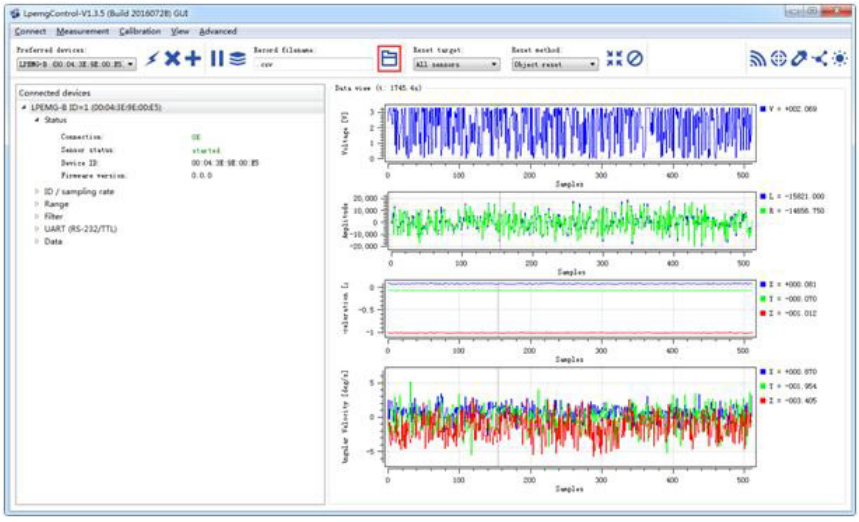
LPEMMG-B2 PLUS Body:



Package

- LPEMMG-B2 PLUS sensor x 1
- User guide card x 1
- USB cable x 1
- Package box x 1
- Warranty: 1 year

GUI in Windows



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