



## biosignalsplux Researcher

Combines all the hardware and add-on software essentials that fulfil your typical research needs.

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This 8-channel tool-kit was designed to keep advanced research applications on budget while allowing wireless and high-quality signal acquisitions without limitations. This kit comes with 8 professional sensors of your choice to fit as best as possible to your research applications.

biosignalsplux enables up to ~10h of signal streaming at up to 3000Hz sampling rate and 16-bit resolution per channel while recording data from up to 8 sensors simultaneously. Due to its compact design, biosignalsplux can even be used for signal acquisition in dynamic conditions. Additionally, the Video Synchronization add-on allows the users to record videos during signal acquisition sessions to visualize all acquired signals synchronously with the recorded video for post-acquisition analysis purposes (e.g. movement analysis).

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### Kit Content:

- 1x Wireless 8-channel hub (specs below)
  - 8x [Professional Sensors](#) of your choice
  - 1x Bluetooth Dongle
  - 1x medical-grade charger
  - 24x pre-gelled & disposable electrodes
  - 1x portable & rugged storage case
  - 8h personalized technical support
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#### Hub Specifications:

- Analog ports: 8 generic inputs
  - Auxiliary Ports: 1 digital I/O + 1 ground
  - Resolution: Up to 16-bit (per channel)
  - Sampling Rate: Up to 3kHz (per channel)
  - Internal Memory: none (16GB optionally available)
  - Battery Life: ~10h streaming
  - Communication: Bluetooth Class II
  - Size: 85x54x10mm
  - Weight: 45g (without sensors)
  - Color: White
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#### Documentation & Downloads:

- [Quickstart Guide](#)
  - [User Manual](#)
  - [Datasheet](#)
  - [OpenSignals & Add-Ons User Manual](#)
  - [biosignalsplux Firmware v.3.7 \(incl. Installer\)](#)
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#### Software:

- [OpenSignals \(r\)evolution \(Windows, macOS, Linux\)](#)
  - [Video Synchronization Add-On](#) for OpenSignals (r)evolution
  - [OpenSignals Mobile \(Android\)](#)
  - [Application Programming Interfaces \(APIs\) & Sample Code on GitHub](#)
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#### Selectable Sensors - Professional Sensors:

This biosignalsplux kit comes with up to 8 Professional Sensors of your choice from the sensors listed below:

- [Accelerometer \(ACC\)](#)
- [Electrocardiography \(ECG\)](#)
- [Electrodermal Activity \(EDA\)](#)
- [Electroencephalography \(EEG\)](#)
- [Electromyography \(EMG\)](#)
- [Electrogastrography \(EGG\)](#)
- [Electrooculography \(EOG\)](#)
- [Force \(FSR\)](#)
- [Light \(LUX\)](#)

- [Respiration \(PZT\)](#)
  - [Temperature \(TMP\)](#)
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#### Extra Sensors - Advanced Sensors:

Extend the capabilities of your biosignalsplux kit with these extra sensors:

- [Functional Near-Infrared Spectroscopy \(FNIRS\)](#)
  - [SpO2 \(Finger Clip\)](#)
  - [SpO2 \(Versatile\)](#)
  - [Blood Volume Pulse \(BVP\)](#)
  - [Goniometer \(GON\)](#)
  - [Load Cell](#)
  - [Respiration \(Inductive\)](#)
  - [Glucose Meter Reader \(GMR\)](#)
  - [Blood Pressure Reader \(BPR\)](#)
  - [SpO2 Reader \(OSL\)](#)
  - [Vaginal EMG \(V-EMG\)](#)
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#### Useful Links:

- [biosignalsplux Documentation](#)
- [biosignalsplux Sample Signals](#)
- [biosignalsplux Publications](#)