

Physiological Measurement Hardware Guide

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Physiology

Plux BioSignals Professional Kit

<https://www.pluxbiosignals.com/products/hybrid-8>



Description

BIOSIGNALSPLUX SKU: 820201003

This 8-channel biosignalsplux tool-kit was designed for high-quality biosignal acquisition applications. The biosignalsplux Professional Kit offers up to ~10h of wireless, continuous signal streaming at up to 3000Hz sample rate and 16-bit resolution per channel while recording data from all 8 sensors simultaneously.

Alternatively, its 16GB internal memory offers the possibility to store up to ~200h of signal data during offline acquisitions without having the need for a constant Bluetooth connection with your computer. Due to its compact design, biosignalsplux can even be used for signal acquisition in dynamic conditions.

The synchronization kit which comes with this kit allows you to connect up to 3x 8-channel biosignalsplux devices to acquire signals from up to 24-channels synchronously. Additionally, this kit comes with all available OpenSignal (r)evolution software add-ons which provide you both real-time and post-processing algorithms to extract important and meaningful information from your signals for further analysis purposes.

Specifications

Analog ports: 8 generic inputs

Auxiliary ports: 1 ground & 1 digital I/O

Resolution: Up to 16-bit (per channel)

Sampling rate: Up to 3kHz (per channel)

Communication: Bluetooth Class II

Range: Up to ~10m

Internal memory: 16GB

Battery Life: ~10h streaming; ~24h logging

Size: 85x54x10mm

Weight: 45g (without sensors)

Color: White

Out of Box Set-up for Biosignals

Equipment Included:

1x Wireless 8-channel hub (specs below)

1x Bluetooth Dongle → bought on Amazon

1x medical-grade charger

50x pre-gelled & disposable electrodes

1x Fast USB data transfer cable → bought on Amazon

1x portable & rugged storage case

16h personalized technical support

1x Synchronization kit

