BITalino (r)evolution NeuroBIT Bundle Data Sheet

BUNDLE-REV-NEUROBIT-BT 161120

SPECIFICATIONS

> Pre-assembled BITalino (r)evolution Core BT
> Pre-assembled Electroencephalography (EEG) sensor with SnapBIT-DUO
> Fixed electrode distance
> Single cable connection

FEATURES

> Allows basic EEG data acquisition
> Easy to wear
> Plug & play design
> Raw data acquisition
> On-board battery charger
> Affordable

APPLICATIONS

> Human-Computer Interaction
> Evoked potentials analysis
> Alpha-wave detection
> Neurofeedback
> Sleep studies
> Neurophysiology studies
> Psychophysiology
> Biomedical devices prototyping

GENERAL DESCRIPTION

This convenient pre-assembled bundle is designed for basic EEG data acquisition (e.g. activity in the frontal lobes). NeuroBIT is fitted with Bluetooth communication. The two EEG sensors with SnapBIT-DUO allow easy placement on the subject and repeatedly accurate & fast measurements. A reference electrode cable is also included in this bundle. This bundle is complete with 3D Printed Casing for our BITalino (r)evolution Core BT making it more wearable, shareable & transportable. The kit is provided with a headband to help secure the sensors in the right place, although it is also possible to use our Adjustable Silicon Cap for EEG.

Fig.1 NeuroBIT bundle.

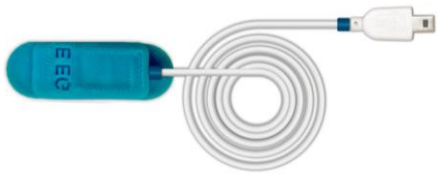

Fig.2 Pre-Assembled EEG sensor.

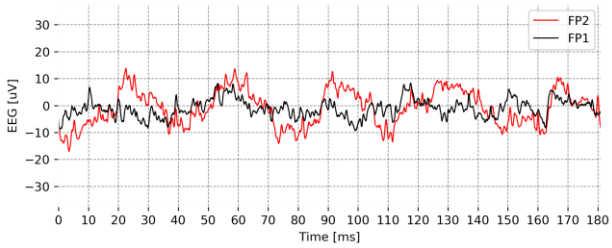

Fig. 3. Typical raw EEG data acquired with NeuroBIT- Fp1 (black) and Fp2 (red) positions in the 10-20 EEG system placement.

Fig. 4. Example of the sensor placement for 2-channel EEG acquisition on the forehead (Fp1 and Fp2 positions in the 10-20 EEG system placement); front view (left) and side view, including the placement of the reference cable (right).

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BEWARE: DIRECT OR INDIRECT COUPLING TO THE MAINS MAY RESULT IN SHOCKING HAZARD

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WARNING

The EEG sensor included in NeuroBIT has a very high amplification gain, reason for which it is particularly sensitive to noise resulting electromagnetic and motion sources. For optimal performance, it is therefore recommended that data acquisition is done in an appropriate environment. Power supplies, lighting and other common household elements are prone to introduce parasite signals.

TRANSFER FUNCTION

EEG datasheet

PHYSICAL CHARACTERISTICS

BITalino Core BT

PACKAGING

Weight: 80 g

ORDERING GUIDE

Part #	Description
BUNDLE-REV-NEUROBIT-BT	Pre-assembled bundle designed for basic Electroencephalography (EEG) data acquisition