

BITalino (r)evolution HeartBIT Bundle Data Sheet

BUNDLE-REV-HEARTBIT-BT 131120

SPECIFICATIONS

- > Pre-assembled [BITalino \(r\)evolution Core BT](#)
- > Pre-assembled [Electrocardiography \(ECG\) Sensor](#)
- > [Photoplethysmography \(PPG\)](#) Sensor
- > Single cable connections

FEATURES

- > Allows basic Electrocardiography (ECG) and Photoplethysmography (PPG) data acquisition
- > Easy to wear
- > Plug & play design
- > Raw data acquisition
- > On-board battery charger
- > Affordable

APPLICATIONS

- > Human-Computer Interaction
- > Heart rate & heart rate variability
- > Biometrics
- > Affective computing
- > Physiology studies
- > Psychophysiology
- > Biofeedback
- > Biomedical devices prototyping

GENERAL DESCRIPTION

The BITalino HeartBIT bundle is designed for everyone who wants to measure cardiac activity measurements (e.g. heart rate & heart rate variability) by evaluating electrocardiography (ECG) and Photoplethysmography (PPG) signals. This bundle is completely assembled with our 3D Printed Casing for BITalino (r)evolution Plugged making it more convenient to use, wearable, sharable & transportable. The core of our HeartBIT is our BITalino Core BT allowing the user to connect more sensors in the future if convenient. The bundle includes complete



Fig. 1 HeartBIT bundle.

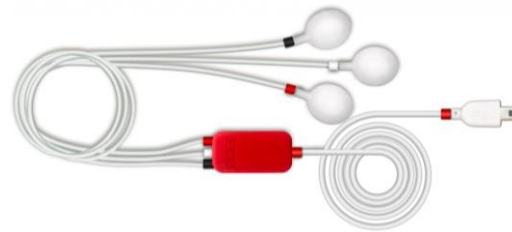


Fig. 2 Pre-Assembled ECG Sensor.

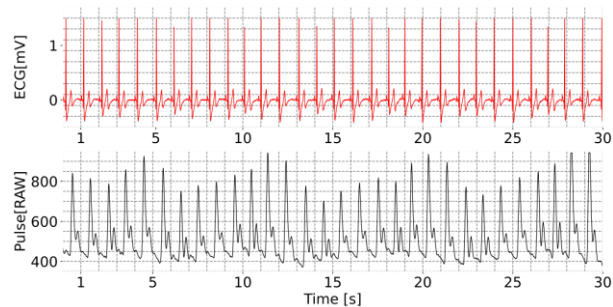


Fig. 3. Typical raw ECG and PPG data acquired with the HeartBIT bundle.

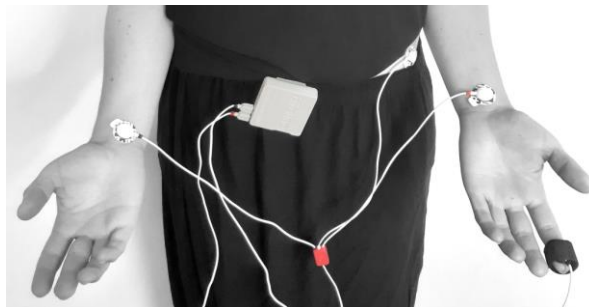


Fig. 4. Example of an assembled ECG and PPG Sensor placement with IN+ & IN- on the wrists and REF on the iliac crest for ECG and the PPG Sensor on the index finger.

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REV A

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



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assembled ECG sensor with 50 cm lead and one basic PPG Sensor for photoplethysmography complete with all the accessories to facilitate placement at the fingertip or ear lobe. Our cross-platform OpenSignals software enables instant data visualization and recording.

TRANSFER FUNCTION

[ECG datasheet](#)

[PPG datasheet](#)

PHYSICAL CHARACTERISTICS

BITalino Core BT

PACKAGING

Weight: 80 g

ORDERING GUIDE

Part #	Description
BUNDLE-REV-HEARTBIT-BT	Pre-assembled bundle designed for Electrocardiography (ECG) and Photoplethysmography (PPG) data acquisition, complete with all the accessories needed to start working. This model is fitted with Bluetooth communication.