

BITalino (r)evolution MuscleBIT Bundle Data Sheet

BUNDLE-REV-MUSCLEBIT-BT 280920

SPECIFICATIONS

- > Pre-assembled [BITalino \(r\)evolution Core BT](#)
- > Pre-assembled [Electromyography \(EMG\) sensor](#) with [SnapBIT-DUO](#)
- > Fixed electrode distance
- > Single cable connection

FEATURES

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

APPLICATIONS

- > Human-Computer Interaction
- > Robotics & Cybernetics
- > Physiology studies
- > Psychophysiology
- > Biomechanics
- > Biofeedback
- > Muscle reflex studies
- > Nerve conduction measurement
- > Biomedical devices prototyping

GENERAL DESCRIPTION

The BITalino MuscleBIT bundle is designed for everyone who wants to measure muscle activity by evaluating electromyography (EMG) 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 four Assembled Electromyography (EMG) Sensors with SnapBIT-DUO allow repeatedly accurate & fast measurements, once the user can benefit from the pre-fixed electrode distance, 1-lead cable for each sensor (instead of 2-lead or 3-lead cable) and one reference cable for all sensors connected.



Fig. 1 MuscleBIT bundle.

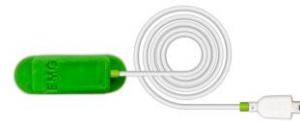


Fig. 2 Pre-Assembled EMG sensor.

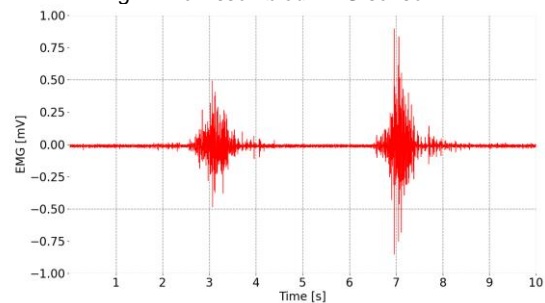


Fig. 3. Typical raw EMG data (acquired with BITalino (r)evolution) on the muscle biceps brachii with flexion of elbow and forearm in supination.



Fig. 4. Example electrode placement of the assembled version along the muscle fibers.

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



BITalino (r)evolution MuscleBIT

Bundle Data Sheet

BUNDLE-REV-MUSCLEBIT-BT 280920

TRANSFER FUNCTION

[EMG datasheet](#)

PHYSICAL CHARACTERISTICS

[BITalino Core BT](#)

PACKAGING

Weight: 80g

ORDERING GUIDE

| Part # | Description |
|-------------------------|---|
| BUNDLE-REV-MUSCLEBIT-BT | Pre-assembled bundle designed for Electromyography (EMG) data acquisition, complete with all the accessories needed to start working. |