

# Electrooculography (EOG) Assembled Sensor Data Sheet

BUNDLE-EOG-UCE6 221220

## SPECIFICATIONS

- > Pre-assembled Electrooculography (EOG) sensor
- > Single cable connection

## FEATURES

- > Allows basic EOG data acquisition
- > Easy to wear
- > Plug & play design
- > Raw data acquisition
- > 3D Printed Sensor Casing (PLA)

## APPLICATIONS

- > Human-Computer Interaction
- > Eye gaze analysis
- > Neurofeedback
- > Sleep studies
- > Neurophysiology studies
- > Psychophysiology
- > Biomedical devices prototyping

## GENERAL DESCRIPTION

The BITalino assembled EOG sensor is designed for everyone who wants to measure eye movements by evaluating Electrooculography (EOG) 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 Assembled EOG Sensor allows repeatedly accurate & fast measurements, once the user can benefit from the single cable connection.

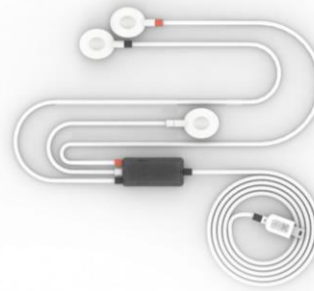


Fig. 1. Assembled EOG sensor – top view.



Fig. 2. Sensor inside with pin connections (IN+/-, REF)

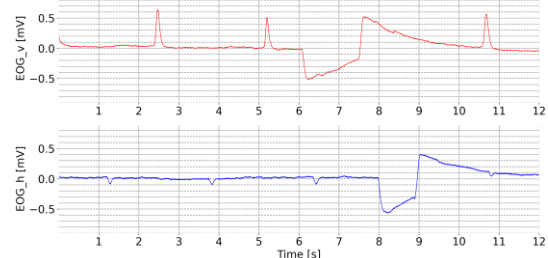


Fig. 3. EDA Signal –electrode placement: vertical (upper red) with eye movement down (6s) and back and horizontal (lower blue) with eye movement right (8s) and back. Eye blinking are positive / negative peaks.



Fig. 4. Electrode Positioning – horizontal with IN+/- next to both eyes (left) and vertical with IN+/- above and below one eye (right) and both with REF behind the ear.

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



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## **TRANSFER FUNCTION**

[EOG datasheet](#)

## **PHYSICAL CHARACTERISTICS**

[EOG datasheet](#)

## **PACKAGING**

Weight: 19 g

## **ORDERING GUIDE**

Part #	Description
BUNDLE-EOG- UCE6	The pre-assembled version of the Electrooculography (EOG) sensor specially designed for the corneo-retinal standing potential activity measurement.