

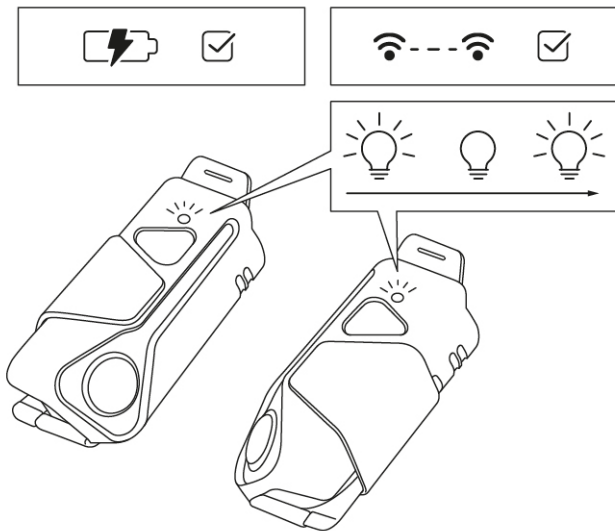
BEYOND 01

User Manual

Outer Motion

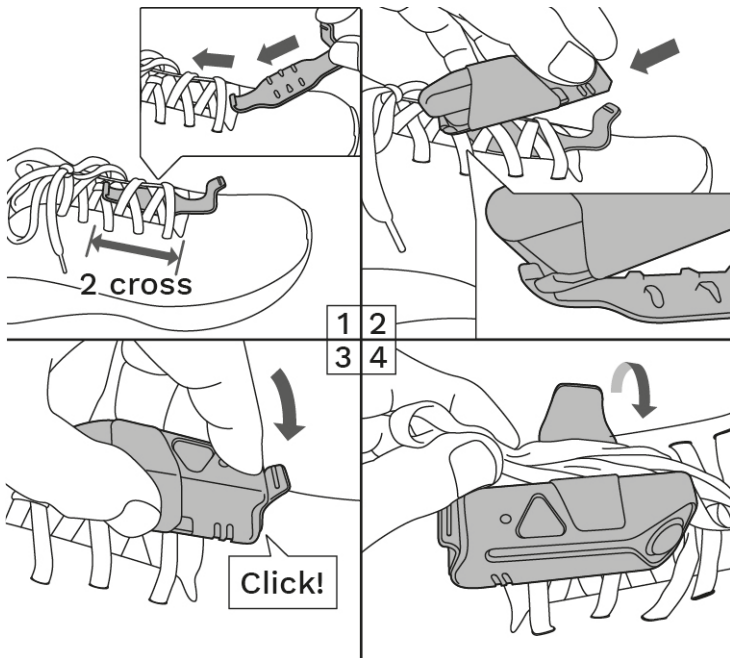
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Before using the sensors, make sure they are **charged** and **synchronized**, this means both sensors should show white breathing LED lights.

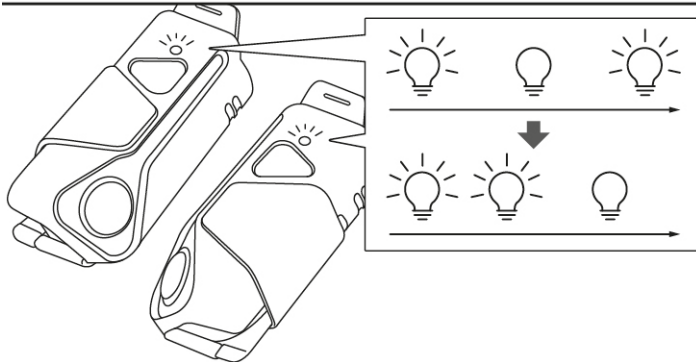


1. Quick start

There are 4 major steps to put the sensors one the shoes:



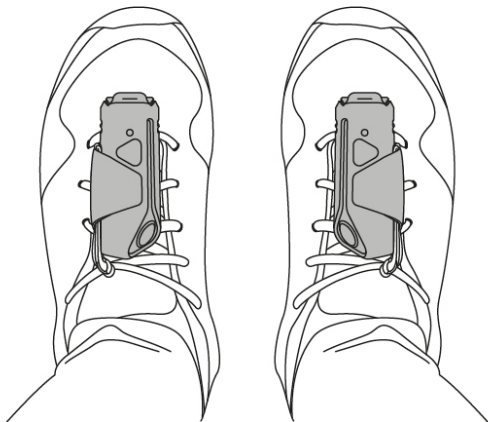
After these steps, press left & right sensor button for for **0.5 second**, **release** and wait the sensor lights switching from **slow blue blinking** to **double blue blinking**. Then you are good to go!



1. Quick start

Make sure each sensor is fully clicked into the shoe base before running, you can gently wiggle it to check. Stop using the sensor if it becomes loose, detached, cracked, or unstable.

Check that the left sensor is on the left shoe and the right sensor is on the right shoe. The camera/lens must face to each other. Incorrect placement may lead to unusable data.



Product: Beyond

Model/type: 01

Manufacturer: Outer Motion

Address: De Hems 10, 7522NL, Enschede, the Netherlands

Support: support@outermotion.ai

Website: www.outermotion.ai

Manual version/date: v0.1 [25-06-2026]

Serial/batch location: See label on sensor/box

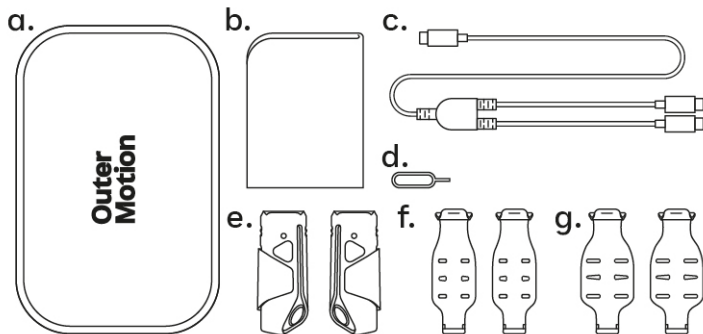
The **BEYOND01** sensor is **Outer Motion's** the first wearable product that measures outdoor walking/running deep biomechanics. Users can simply click them on top of shoelaces in seconds and start doing their sports.

BEYOND01 is intended for walking/running movement analysis in daylight conditions. It is not a medical device and must not be used for diagnosis, treatment decisions, or emergency monitoring.

2. Product overview

A full set of BEYOND01 sensor contains:

- a. zipper box;
- b. camera cleaning cloth;
- c. Y shape charging cable;
- d. reset pin;
- e. 2 sensors (left/right);
- f. 2 pairs of sensor base (narrow/wide, universal in left/right).



BEYOND01 sensor mainly uses a RGB LED to indicate the sensor status. Here is the list of the blinking patterns.

LED colour / pattern	Meaning	What to do
White breathing	Sensor is ready	The sensor is on and ready to use.
Purple blinking	Sensors are not synchronized	Connect both sensors with the provided Y-cable.
Slow blue breathing	Preparing to record	Wait until the light changes to recording mode.
Blue double pulse	Recording	The sensor is recording data.
Blue fast pulsing	Uploading data	Keep the sensors connected to charging and Wi-Fi.
Green light / breathing	Charging	Keep charging until ready.
Amber blinking	Low battery	Charge the sensors before use.
Red pulsing	Sensor error	Restart the sensor. If the problem remains, contact support.
No light	Deep sleep or empty battery	Press the button or connect to charging.

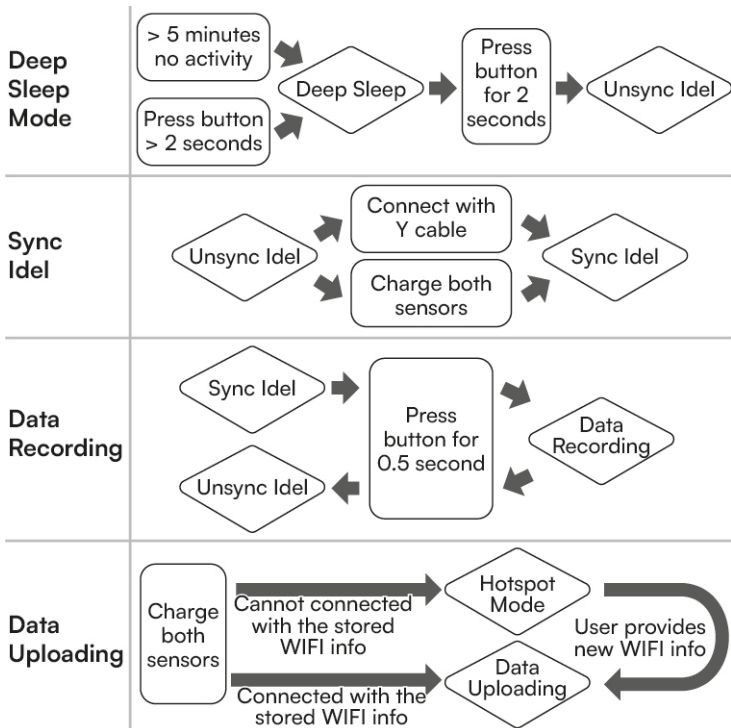
3. LED indicators

BEYOND01 sensors work in four major modes: Idle, Data recording, Charging and data uploading, and Deep sleep.

The switch between them are as the form on the right:

Attention:

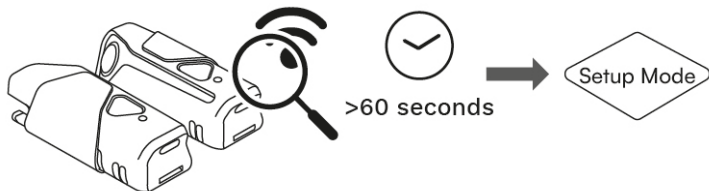
Use only the provided Y-cable and a certified USB power adapter rated [5V, 1A] (minimal). Do not charge if the sensor is wet, damaged, swollen, or unusually hot. Do not cover the sensors while charging. Do not open, puncture, crush, burn, or modify the sensors. Stop use immediately if there is smoke, smell, swelling, leakage, or excessive heat.



4. Charging, sync, and upload

BEYOND01 sensors have default WIFI name and credentials saved onboard.

When changing to a new place and the sensor cannot connect to the saved WIFI for more than 60 seconds, it will switch to setup mode.



In the setup mode, the sensor will launch a temporary access point, allowing users to configure or reconfigure network credentials.

The sensor WIFI hotspot is named as **BEYOND_{pair_id}** **{L|R}**, the credential to connect is **12345678**.

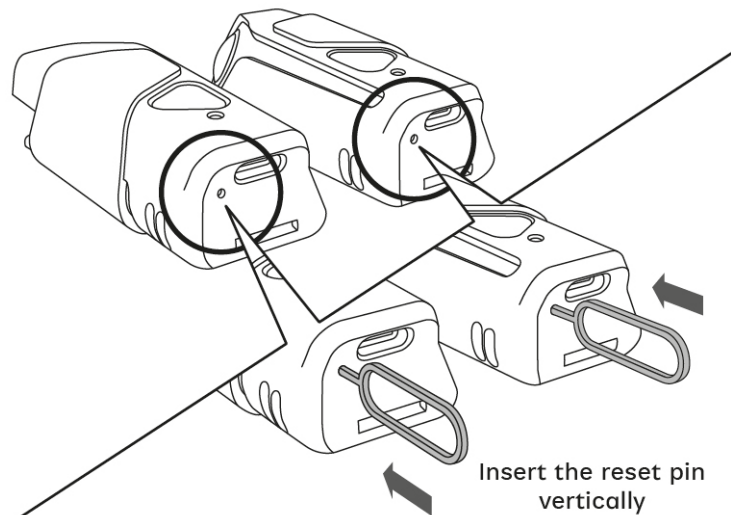
Once connected the hotspot, user can open a browser and type in the IP address of '**192.168.4.1**'. This will lead to a simple web interface for the user to type in new WIFI name and credentials.

Once the new WIFI name and credentials are saved, the sensor will try to connect to the new defined WIFI network.

Be aware that these steps are need for **both** left and right sensors separately.

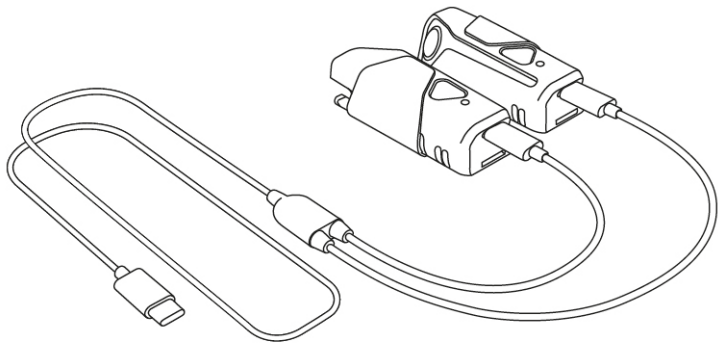
The embedded system of BEYOND01 sensors could be stuck, which means no reaction in sensor button actions.

In this situation, you can use the reset pin to press the reset button through a small hole at the left tail part of each sensor.



We prepared the specific charging cable for BEYOND01 sensors, which also include the function of synchronize left/right sensors.

Please only use the provided charging cable to charge or synchronize sensors. Also be aware that the sensors should connect to the two tops of the Y-cable, and the charging head connect to the tail of the Y-cable. As shown below:



Note:

- BEYOND01 is currently only designed for day light usage.
- BEYOND01 can only resist small to median level of rain.

They CANNOT be immersed under water.

- If the camera lens get dirty, please remove dirty gently using the cleaning cloth. Small amount of water can be added to help removing the dirt.
- BEYOND01 sensor can get warm during recording and charging. But it should NOT reach to a level that burns the hands. If it happens, please put sensors in an open area without other things and wait it cool down. Then report to us immediately.
- The WIFI uploading time is about 2 times the recording time. And the uploading only happens when sensors are in charging. We strongly suggest to keep the sensors in charging after every time of using them.

Support

For support, troubleshooting, or product questions, please contact:

Email: support@outermotion.ai

Website: <https://www.outermotion.ai/support>

When contacting support, please include the sensor serial number, left/right sensor side, and a short description of the issue.

Intended use

BEYOND01 is designed for walking and running movement analysis. It is not a medical device and must not be used for diagnosis, treatment decisions, or emergency monitoring.

Regulatory status

This product is currently not CE-marked. It is provided for internal testing, research, pilot, or evaluation use only. Do not resell, redistribute, or use the product as a certified consumer product unless confirmed in writing by Outer Motion.

8. Support / legal / recycling

This product contains radio equipment.

Wireless technology: Wi-Fi 2.4 GHz

Frequency band: 2400—2500 MHz

Maximum RF output power: ≤ 20 dBm EIRP, software-limited; final value to be confirmed by RF testing.

Privacy notice

BEYOND01 uses cameras and may capture the user, nearby people, or the surrounding environment. Only use the sensors where recording is permitted. In research, clinical, team, or public settings, make sure the required permission or consent has been obtained before recording.

Recycling and disposal

Do not dispose of BEYOND with household waste. The product contains electronic components and an integrated Li-ion battery. Return the product to Outer Motion, an authorised collection point, or an electronic/battery recycling facility according to local rules. Do not open, puncture, burn, or crush the sensors.

Table of debug

Problem	Action
No LED	Charge for 10 minutes, then press button
Button no response	Use reset pin
Cannot connect Wi-Fi	Charge both sensors. Wait 60 s for setup mode, then connect to hotspot
Upload not completed	Keep sensors charging and near Wi-Fi
Sensor too hot	Stop use, place in open area, contact support
Loose attachment	Stop running and reattach

Outer Motion