QUICK START
CHEAT SHEET

OpenEarable is the world's first fully open-source AI platform for ear-based sensing applications that feature true wireless audio. Packed with an unprecedented array of high-precision sensors, OpenEarable redefines what's possible in wearable tech. Designed for both development and research applications, OpenEarable is modular, reconfigurable, and built for the future.

Questions or problems?
Please contact us at info@tobi-technologies.com

Left ●   ● Right

PAIRING AND CONNECTION

1. Turn On / Off: Hold the button for 4 seconds.

2. Enter Pairing Mode (Reset): Press and hold the button of the OpenEarables for at least 12 seconds until it starts ● **blinking blue fast (PAIRING)**.

3. Pair: On Android, open the Settings app and connect to either the left or right device. Once connected, the device starts ● **blinking green (CONNECTED).**

4. Enable LEAudio: After the device is paired and connected, you can enable LEAudio on your Android phone (if supported). To do so, open the settings of your OpenEarable in the Bluetooth settings of the settings app. After enabling LEAudio, the left/right device will connect automatically.

5. Usage: If your OpenEarables are paired but not connected, they will ● **blink blue slowly (WAITING FOR CONNECTION).**

iOS Users
LEAudio is not supported by iOS. If your iPhone supports BLE 5.4, you can stream sensor data. Put your devices into pairing mode and connect them via the OpenWearable app directly.

Android Users
Make sure your device supports LEAudio and that you are on the latest Android version before using OpenEarable.

MOBILE APP

A mobile "OpenWearable" app is available for Android and iOS. They can be downloaded at the following address:

https://open-earable.teco.edu

The app lets you ...
... connect and manage your OpenEarable settings.
... configure and record sensor data via OpenEarables.
... use apps that were implemented for OpenEarables.

SD CARD

For local recordings, OpenEarable supports inserting a microSD cad (**formatted as exFAT**) into its card slot. Please note that certain microSD cards can produce electric artifacts in the microphone recordings. **We recommend the following microSD card to be used with OpenEarable:** *MICRON MTSD064AMC8MS-1WT*

The LED indicates local recording in progress as follows:

● Magenta – Blinking	recording in progress
● Red – Blinking	microSD card error

 WARNING! Only insert/remove SD card when device is turned off. Otherwise, you risk bricking the card and losing your data! SD card cannot be remounted after removing it if device is turned on.

CHARGING AND BATTERY

OpenEarables indicate different charging states via the on-board LED and the following light patterns:

● green – solid	fully charged
● green – pulsing	charging, 90% charged
● orange - pulsing	charging
● orange – solid	initializing charging
● red – pulsing	pre-charging after discharge
● red – solid	> 10 seconds = battery fault

If your OpenEarable goes to solid red after pre-charge (red pulsing), you can unplug the OpenEarable and plug it in again. Repeat until it starts pulsing orange again.

 WARNING!
Fully charge and turn off devices if not using for prolonged times. **Charge regularly to avoid permanent battery damage!**

DISCLAIMER

OpenEarable is a prototype development platform intended solely for research and development purposes. It is not a consumer product and must not be used for medical applications. Use is at the user's own risk.