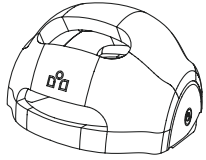


Hello, I'm your iSyncWave

User Manual and Installation Guide



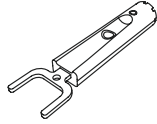
In the box



iSyncWave



Sensors



Jig



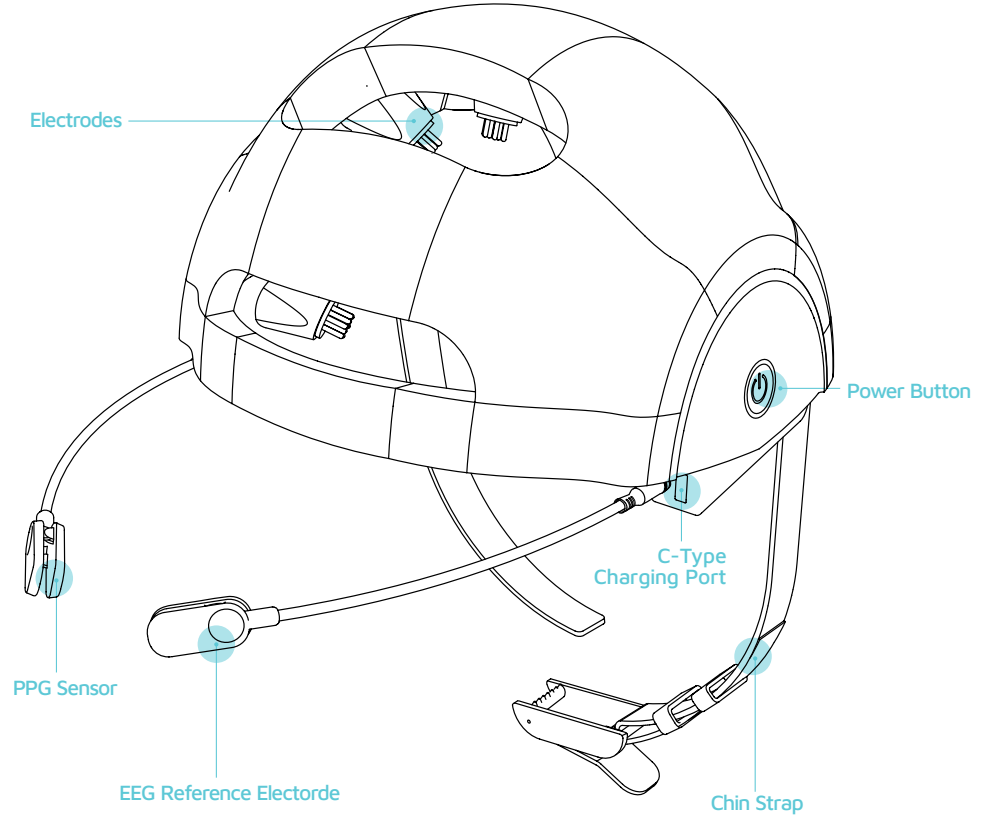
User Manual

[!\[\]\(6059a5aa8b4ca7bb793408023d6c6e42_img.jpg\) Download the iSyncWave App](#)

*Scan the code with a Samsung Galaxy Tablet



iSyncWave



Place your iSyncWave

Important considerations for placing your iSyncWave for the use:

Optimal environment to operate the device is quiet and unattended area for the instructor and the client to be relaxed and be at ease.

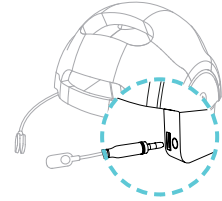


iSyncWave Setup

1. Remove the cover

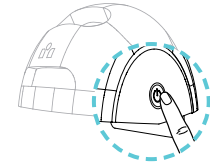
2. Preparations

Connect the sensors to each side



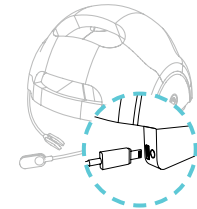
3. Turn on the Device

Push the button at the left side of helmet to turn the device on







4. Recharge

Connect the C-type battery charger to the Device to charge the product. It may take up to three hours for maximum charge.



LED Indication Guide

Status	Color	Description
Power On		Battery charged above Thirty Percent
		Battery charged below thirty percent
Charging		Battery charged above 95 percent
		Battery charged below 95 percent



Cleaning and Maintenance

The device shall be cleaned and disinfected as the electrodes along with the inner surfaces of iSyncWave, in which multiple contacts are made with the skin and hair.

1. Turn off the iSyncWave.
2. Gently brush electrodes with Isopropyl alcohol.
3. Dry the iSyncWave completely before use.
4. Turn the iSyncWave back on and continue with brainwave measurement.

*Do not use ammonia or acetone to clean the electrodes or the surface

Replacing the Electrodes

1. After two hundred or more measurements, check the electrode condition if the Silver chloride coating has been ripped or come off.
2. Check the substitute electrodes for the replacement.
3. Place the new electrodes on the device.
4. Turn the device back on.
5. Check the signal quality with the new electrodes.
6. Continue with the brainwave measurements.

Product Specifications

Size

Weight	1600g
Dimensions	245(L) x 243(W) x 153(H) mm
Head Circumference	50 cm - 62 cm

Channels

EEG	19 EEG Channels + Fpz Ground Channel
Auxiliary	Right: 1 PPG Channel / Left: A1 Reference Channel
EEG Electrode	50 cm - 62 cm

Power

Battery	Rechargeable Li-Ion Battery
Charging	USB-C Type with 5V/2A Adpater
Charging Time	132 Min
Runtime	7 Hours

Connectivity

Bluetooth	Bluetooth v5.0 (LE up to 2Mbps)
Irradiance Source	19 LED Bulbs (Built-in the center od each EEG electrode)
Wavelength	Near-Infranred 850 nm
Pulse Rate	1 - 45 Hz (Adjustable in 1Hz Inceraments)

Amplifier

Bandwidth	0.5 - 50 Hz
Sampling Rate	250 Hz
Special Design	Analog Front End (AFE)
A/D Converter	24 Bit



General Instructions

- The following device and its systems are intended for a person who understands the content written in English and understands the physical principle of EEG or has received relevant training.
- Read all instructions and labels including this manual before operating the device.
- Refer to the user manual for the information on the recommended tablet specifications, operating system, and the requirements of those settings.
- iSyncWave is recommended to be operated by designated personnel who received adequate training.
- Do not modify the device without consulting the iMediSync representative. iMediSync will not be responsible for any malfunction or system failure corresponding to any unauthorized modification and the warranty will be void.

Maintenance

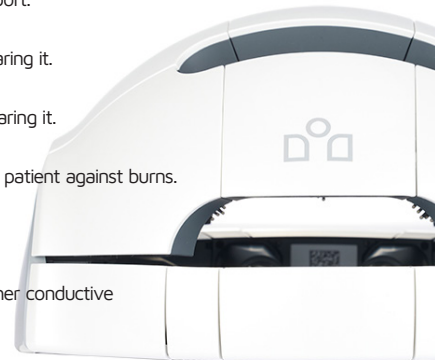
- The manager of the device shall provide a safe environment for a typical EEG system compliant to EN 60601-1-1 requirements.
- Always clean the electrodes after each or multiple measurements according to the cleaning instructions.
- For electrode channels that has persistent problems with signal quality, check the status of the electrode coating.
- In case of electrode replacements, only use the electrodes provided by the iMediSync, Inc.

Precautions

1. Do not attach or detach any device components while the device is on to prevent any damage to the system or components.
Turn off the device when attaching or detaching any components to the device.
2. Do not use acetone or any other cleaning solvents to clean the device
3. Keep the battery charged. If the battery is discharged, it may take a longer time to fully charge the device.
4. Do not immerse the device into any liquid.
5. Do not expose the device to direct sunlight, near the source of thermal radiation, moisture, vibration, mechanical shock, excessive dust, or humidity
6. Do not use when the device is wet, if any moisture penetrates the device, have the device checked by the iMediSync representative.
7. Do not use caustic or abrasive cleaning agents to clean the device or electrodes.
8. Do not charge when the patient/subject is equipped - wearing the device.
9. Do not excessively pull or overstress the device as it may break the device.
10. Do not sit or place a heavy object on the device.
11. Do not use the device in an environment with strong electromagnetic interference.

Safety

- The device and the other features shall not be operated if the device is mechanically damaged to avoid any risk of electrical shock
- The battery used in this device may present a fire or chemical burn hazard if mismanaged.
To ensure battery safety: a. Do not detach or disassemble the battery from the device. b. Replace the battery at the Service Center designated by the iMediSync or the representative.
- The damaged device and/or components shall not be used and be requested for repair service.
If the amplifier is damaged, please contact the iMediSync Customer Support at <https://www.imedisync.com/en/supports/customer-support/>
- Safety precautions to avoid hazards in the vent of inadequate hygiene or if the subject contacts the device contaminated with a toxic substance, stop using the device and contact the iMediSync Customer Support.
- Turn on the device for the safety of the user/subject before wearing it.
- Turn off the device for the safety of the user/subject before wearing it.
- Do not use the device with HF surgical equipment to protect the patient against burns.
- Do not use the device with a defibrillator
- The conductive parts of the electrode should not contact the other conductive parts including the earth.



This equipment has been tested and found to comply with the limits for a Class II medical device in South Korea, pursuant to KFDA's Electroencephalograph Rules. For further Information, contact us on our website.



overseasales@imedisync.com

<https://www.imedisync.com/en/>

Warranty

iMediSync's device warranty is one year from date of purchase.

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Certifications

Contains FCC: 2AZ4ISW-MUS101

Contains KFDA Class II: 21-5051



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User Manual and Installation Guide document

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