



Versatile Plus 16/32ch EEG

USER GUIDE

Models: VP1 and VP2



V-VP1-VP2-01-240926-EN

English

This is the user guide for the Versatile Plus 16-32ch EEG system by Bitbrain.

This manual contains all the details you need for the setup, operation, and maintenance of the product.

Please carefully read the safety information, usage conditions, and instructions before using the device.

Not following the guidelines provided in these documents will void your product warranty.

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Safety Warnings

To ensure safe and proper use of this product and prevent serious injury or damage, please read the user manual completely and pay close attention to this section before operating the device.

When using this product, be sure to follow the safety precautions below to avoid potential risks.

Proper Device Use

- Do not use the device on damaged skin (irritated or wounded). If avoiding this is not possible, the device **MUST NOT** be used.
- Store the device in the packaging provided and follow the storage temperature guidelines outlined in these instructions.
- Only use the device for its intended purpose.
- Never use the device while it's charging.
- This device is intended for research purposes only. It is not designed for life support. Do not use it to monitor vital signs in operating rooms or intensive care units.
- Use only the peripherals and accessories provided by the manufacturer. Failure to comply with this requirement may degrade the product's performance as well as impair its electromagnetic compatibility.
- Avoid dropping the device or bumping it against other objects.
- Under no circumstances should you attempt to handle the battery. The battery can only be replaced by the manufacturer or authorized personnel. Once the device and its internal battery reach the end of their lifecycle, they must be recycled or disposed of in accordance with current local, state, and European regulations. Do not discard the product with regular household waste.
- Do not tamper with the inside of the device.
- Do not expose the product to moisture or liquids, except in areas specifically indicated for such use.
- Do not use with damp or wet hands.
- Do not expose it to direct sunlight for prolonged periods.
- Do not expose the product to excessive dust or external electrical charges.
- Keep the product away from heat sources.
- Keep the product away from electrical sources and electromagnetic fields.

Safety Warnings

- This equipment is not suitable for use in places where children may be present and could operate or misuse it.
- Handling and supervision must always be done by an adult when using this equipment to measure biometric data in children.

WARNING:

- If the equipment will be used by more than one person, disinfect the device following the instructions provided in this manual.
- Only use disinfectants or cleaning soaps specified in this user guide. Using other products may damage the device.

Temperature Guidelines

- Do not expose the device to extreme temperatures.
- Optimal charging temperature: 10°C~45°C.

Storage Temperature:

- Up to 1 month: -20°C~60°C.
- Up to 3 months: -20°C~45°C.
- Up to 1 year: -20°C~30°C.

Device Warnings to Prevent Improper Use

- Always charge the device while it's connected to the Isolator to prevent electrical power surges.
- When recording via USB cable, make sure the amplifier is connected to the Isolator to avoid external noise or electrical power surges.
- Use ONLY an AC/DC converter with a 5V/2A output. Using a converter with higher voltage and amperage can seriously damage the equipment.
- If you're using the device in wireless data logging mode, place the USB-C cover on the amplifier, over the Isolator port, to protect against electrostatic discharges.

Safety Warnings

- Do not open the device. If your device isn't working properly, please contact support@bitbrain.com
- Do not bring the device's electrodes or any metal parts close to other conductive surfaces, including the ground.
- This equipment is not intended for use in explosive or flammable environments. Using it in such areas can damage the device and pose burn hazards.
- Do not operate the device near critical or sensitive electrical or electronic equipment not designed for this purpose, as electromagnetic interference may impact the operation of one or both devices.
- This device is not protected against defibrillator discharges. If defibrillation is required, remove the device beforehand. Exposure to a shock may result in permanent damage to the equipment.
- If you notice unusual smells, strange noises, or the device feels too hot, place it somewhere safe and contact support@bitbrain.com
- Please read the "General Terms and Conditions for the sale and use of Bitbrain Products" carefully. You can access the document at <https://downloads.bitbrain.com/documents/terms-and-conditions-eu>
- Please keep these instructions.

Safety Warnings

Assembly, Installation, and Maintenance Warnings

- Unplug the charging cable once the device battery is charged, otherwise its battery life may be reduced.
- If you plan to store the device for an extended period (more than a week), it's best not to leave the battery fully charged. Keeping the battery at 100% for too long can reduce its lifespan and limit how long the device can run on a single charge.
- Store the device in a dry location with a temperature between 5°C and 40°C. Extended exposure to high heat may impact battery stability.
- When cleaning and disinfecting the equipment, only use surface disinfectants recommended by the manufacturer. Using other products may damage the equipment and affect the signal quality.
- DO NOT USE any cleaning product or disinfectant Versatile Plus 16-32ch EEG with a non-recommended formula. Using unapproved cleaning products may harm the equipment and compromise the signal quality.

Modification Warning

- Any unauthorized changes made to the product can void its compliance and warranty. The manufacturer is not liable for any dangerous or incompatible situations that may cause damage or improper operation of this product or other equipment if modifications have been made without authorization.
- Note: Under no circumstances should the end user alter any part of the product that could change the specifications listed in the compliance assessment, as this may void the product's certification. For example: transmitted power, frequency bands, or channel hopping.

Safety Warnings

Important

- The Versatile Plus 16-32ch EEG is a system created by Bitbrain for collecting biometric data for research purposes.

Conventions and symbols

The Following Conventions and Symbols are Used in this Manual:

Conventions:

- **Note:** used to highlight relevant information.
- **Caution:** Indicates areas where failure to comply could cause equipment damage, personal injury, or cause the equipment to operate outside of its specifications.
- **Warning:** Alerts you to specific actions that, if not followed, may result in equipment damage, personal injury, or cause the equipment to function outside its specifications.

Symbols:

The following symbols are found both in this manual and on the equipment labeling or packaging:



This product contains electrical and electronic components and must not be disposed of using the standard waste collection system. Please refer to your local regulations for the disposal of electrical and electronic equipment.



This product contains batteries that must not be disposed of with household waste. At the end of its useful life, it must be taken to an appropriate collection point for the proper recycling of the batteries it contains.



Caution.



Product complies with CE Marking regulations.



Check the instructions for use.



Manufacturer.



Serial number.



Reference number.



Model.



Direct current.



Turn on.



Turn off.

Disclaimer

The hardware included with these Products (EEG, biosensors, eye-tracking) is not medical equipment. These devices are not designed or manufactured to provide healthcare services, nor are they intended or marketed for diagnosis, treatment, alleviation, medical advice, or disease prevention. Their use is strictly for research purposes.

Please review our “General Terms and Conditions of Sale and Use of Bitbrain Products” before purchasing any equipment to ensure you fully understand them. You can access the document at <https://downloads.bitbrain.com/documents/terms-and-conditions-eu>

Bitbrain reserves the right to review this user guide and update its content whenever it deems necessary, without any obligation to notify individuals or organizations of such changes. While every effort has been made to ensure the accuracy of the information included here, it should not be considered a binding commitment from Bitbrain. To make sure you have the most up-to-date version, please visit the downloads section on the product page at www.bitbrain.com.

Terms of use

- Please read the device safety information carefully and keep the manual for future reference.
- Be sure to review the “General Terms and Conditions of Sale and Use of Bitbrain Products.” You can find the document at <https://downloads.bitbrain.com/documents/terms-and-conditions-eu>

Versatile Plus 16-32ch EEG

The Versatile Plus 16/32ch EEG is an electroencephalograph (EEG) device with 16 to 32 channels and semi-dry sensors, designed for real-time recording. The EEG sensors, moistened with water, can be placed anywhere on the scalp or according to the standard 10/20 and 10/10 international system layouts.

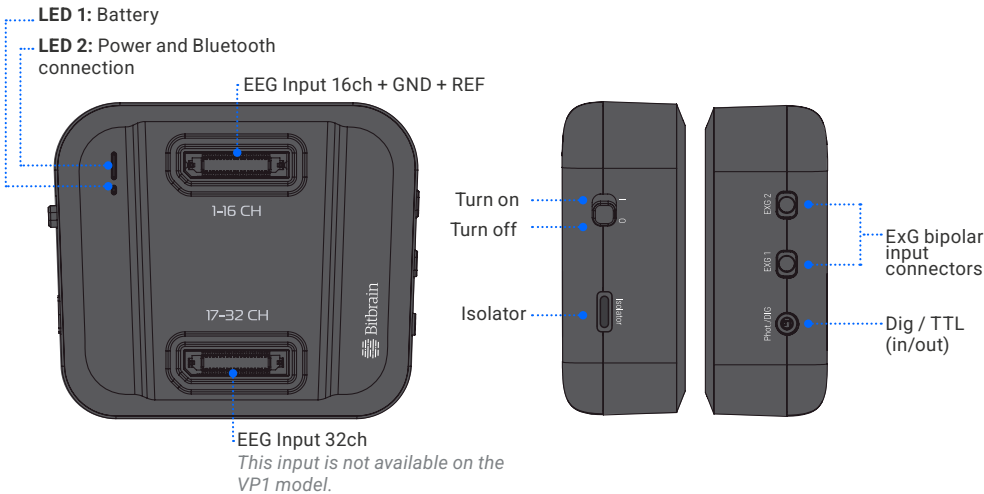
Intended Use: This system is designed for use by research professionals.

Manufacturer Contact Information

BIT&BRAIN TECHNOLOGIES, S.L.
C/Sta Teresa de Jesús 30-32, 50006 Zaragoza, Spain.

The following section provides a description of the equipment:

Amplifier: This component receives the signal and records it and/or sends it to a computer.



LED 1 Status:

- Low battery
- Charging battery
- Fully charged battery

LED 2 Status:

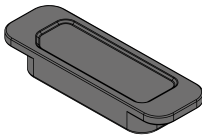
- Connected via cable or Bluetooth
- Connecting bluetooth

Built-in sensors:

Accelerometer, gyroscope: These measure head movement.

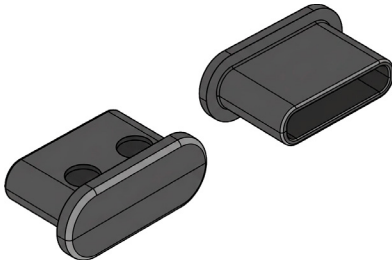
Connector Cover:

Shields EEG connectors from dust or moisture, especially when recording in 16ch mode with the VP2 32ch version.



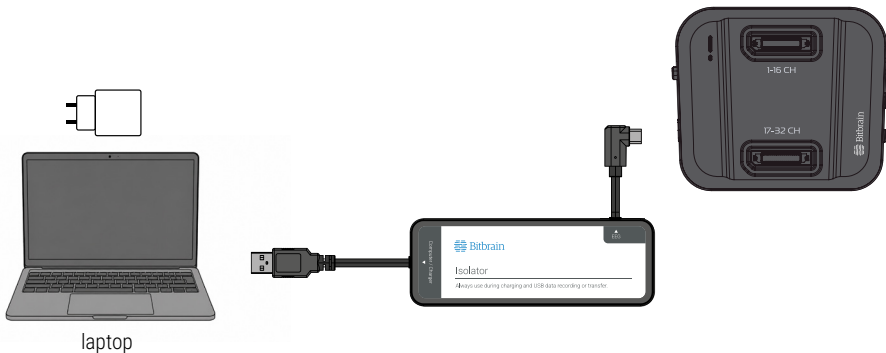
USB-C cover:

Placed on the amplifier's isolator port to prevent electrostatic discharges during wireless data recording.



Isolator:

Protects the system from electrical noise and power surges during charging, wired signal recording, or data transfer to a computer.

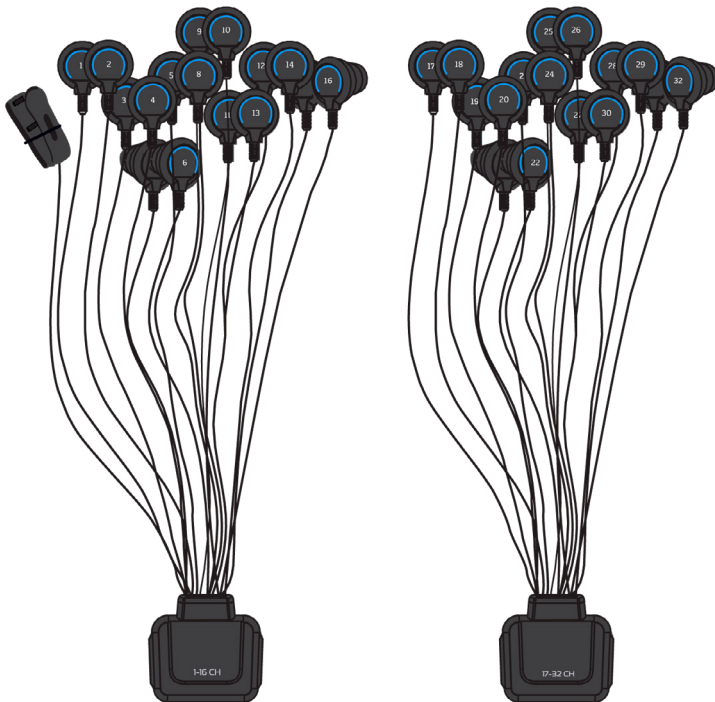


EEG Electrode Set 1-16ch:

Sensors designed to be placed on the cap to pick up EEG signals. This bundle includes 16 EEG channels, numbered 1 to 16, along with REF, which is clip-shaped and attached to the earlobe, and GND, which is sensor-shaped and placed on the head.

EEG Electrode Set 17-32ch:

Sensors designed to fit into the cap and receive EEG signals. This bundle includes 16 channels, numbered 17 through 32.

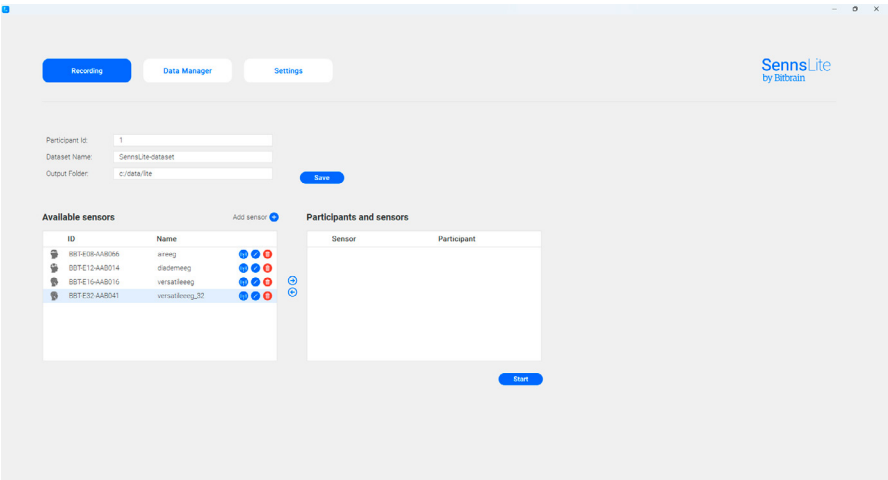


Acquisition Software

The purchased product and all subsystems come with SennsLite software, allowing you to assign channels to locations based on the international 10/10 EEG system, view and record EEG signals, as well as signals from built-in and external sensors. The amplifier connects to the program via Bluetooth or USB, letting you see and filter real-time data as it streams. The software also lets you configure the sampling rate at which the signals are recorded.

Minimum computer requirements:

- Operating System: Windows 10 or higher, Ubuntu 22.04
- Processor: i5
- RAM: 8GB
- Other: Bluetooth v2.1 or above,USB A 3.0 port or newer
- Resolution: Not applicable



Technical specifications

	Versatile Plus 16ch EEG VP1	Versatile Plus 32ch EEG VP2
Amplifier HW version	V1	V1
Firmware	Upgradable via application	Upgradable via application
Rated voltage	Battery: 3.7 V / USB: 5 V	Battery: 3.7 V / USB: 5 V
Rated power	Battery: 1040 mW USB: 2500 mW	Battery: 1350 mW USB: 2500 mW
Battery	Li-Po: 2000 mAh. 500 cycles ≥80% Charging time: <5h	Li-Po: 2000 mAh. 500 cycles ≥80% Charging time: <5h
Bluetooth battery life	Up to 10 h	Up to 7 h
SD battery life	Up to 9 h	Up to 6,5 h
Bluetooth + SD battery life	Up to 8,5 h	Up to 6 h
Operating temperature of amplifier and isolator	10°C to 35°C	10°C to 35°C
Charging temperature of amplifier and isolator	10°C to 45°C	10°C to 45°C

	Versatile Plus 16ch EEG VP1	Versatile Plus 32ch EEG VP2
Sampling rate for USB-C wired transmission or for SD Card storage	Configurable: – 2048 SPS at 24 bits (SD Card) – 1024 SPS at 24 bits (USB/SD Card) – 512 SPS at 24 bits (USB/SD Card) – 256 SPS at 24 bits (USB/SD Card)	Configurable: – 2048 SPS at 24 bits (SD Card) – 1024 SPS at 24 bits (USB/SD Card) – 512 SPS at 24 bits (USB/SD Card) – 256 SPS at 24 bits (USB/SD Card)
Sampling rate for Bluetooth wireless transmission	256 Hz	256 Hz
Wireless technology	Bluetooth BR/EDR	Bluetooth BR/EDR
Maximum radiated power	11 dBm	11 dBm
Dimensions and weight	Amplifier: 83 × 72 × 27 mm ≈ 116 g	Amplifier: 83 × 72 × 27 mm ≈ 120 g
Head circumference	420–630 mm	420–630 mm
Charging / data transmission connection	USB Type-C	USB Type-C
Other connections	EEG connector between amplifier and electrode set. Jack connectors for external sensors.	EEG connector between amplifier and electrode set. Jack connectors for external sensors.
Data backup	64 GB internal	64 GB internal
Compliance	CE (Directive 2014/53)	CE (Directive 2014/53)

What is included?

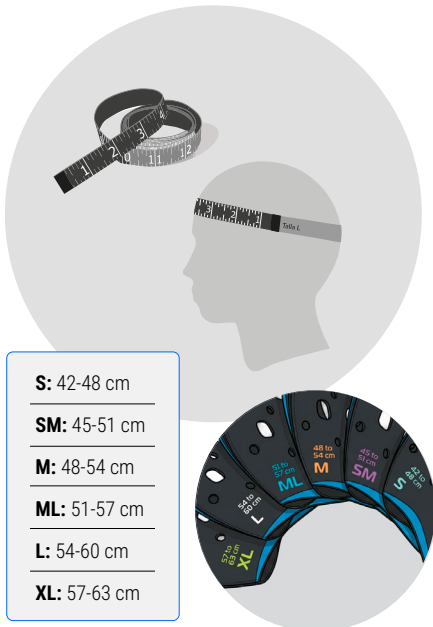
	Name / description	Versa Plus 16ch VP1	Versa Plus 32ch VP2
	Amplifier Runs on a built-in rechargeable battery	1	1
	EEG cap - Support for electrode placement. - Designed using the international 10/10 EEG system	2	2
	Electrode sets - Set 1-16ch + GND + REF - Set 17-32ch	1	1 1
	Isolator Shields the device from outside noise and power surges	1	1
	Sensor holders Allow you to place the sensors in the designated spots on the cap	2 x 17	2 x 33
	Sponges Moistened sponges help sensors make contact with the scalp.	2 x 340 pcs. 2 x 15 pcs. with clips	2 x 340 pcs. 2 x 15 pcs. with clips
	Washing piece Protects the connector so the cap and electrodes can be disinfected together.	1	1

Getting Your Equipment Ready

Follow these steps to pick the right cap, attach the sensor bases to it, and arrange the sensors just the way you need.

1

Measure the user's head circumference and pick the cap size that fits best. If none of the sizes matches your measurement, reach out to Bitbrain to order the right size.



2

To attach a base to the cap, first locate the hole where you want to insert it and gently widen it. Push the base from the inside of the cap outward, sliding it into the hole until the fabric sits securely in the groove as shown in the image detail.



Device Setup

3

If you want to remove a base, place your thumb on top of it and gently press inward with both hands until it pops free from the fabric.*

To reposition it, please follow the instructions in **Step 2**.

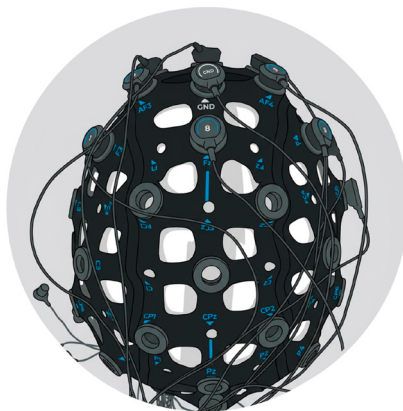


*Please note that the cap's material may become slightly deformed when inserting the bases, so frequent repositioning could gradually alter its appearance.

4

Before putting on the cap, attach the sensors to it. Press firmly on the silicone to insert each sensor. When placing the sensors on the cap, make sure the cables are facing backward to make fitting easier.

It is recommended to use a mannequin head to make sensor placement/mounting easier.



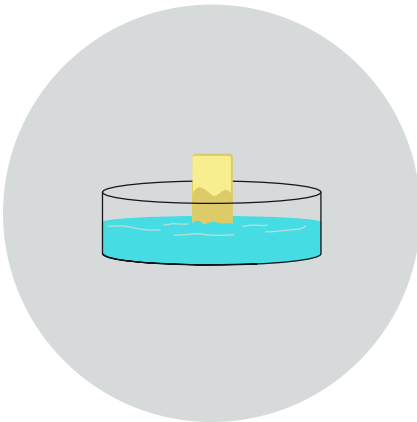
NOTE:
Check the marked sensor positions on the cap and the number assigned to each sensor. This information will be needed when analyzing the data.

Device Setup

5

Gather the sponges you'll need for the sensors and the GND*. Soak the sponge in **tap** water until it's fully saturated.

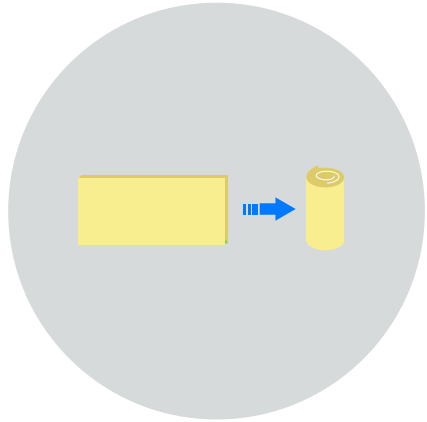
Do not use distilled or deionized water.



*If you need replacement sponges, please reach out to the Bitbrain team.

6

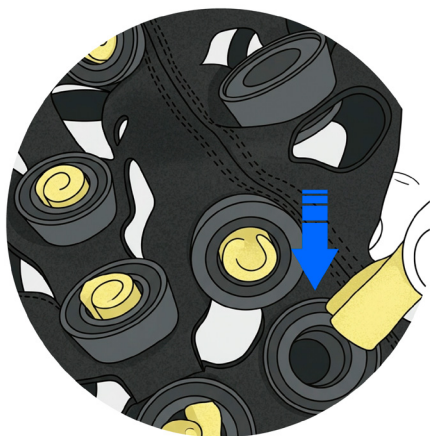
Roll the sponge into a cylinder, just like in the illustration.



Device Setup

7

Insert each dampened sponge into the inner opening of its matching sensor from inside the cap to make setup quicker and easier.



Repeat steps 5 through 7 for the remaining sensors.

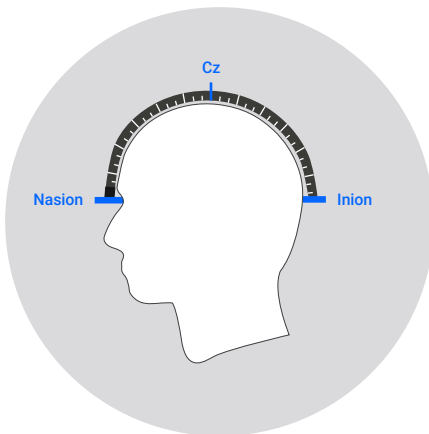
IMPORTANT: Do not get the connector wet, as this could cause internal damage to the device.

Equipment Setup

Follow the steps below to properly place the equipment on the participant.

1

Measure the distance from the nasion to the inion (see image). You'll need this measurement later to place the Cz sensor, which should be positioned exactly at the midpoint of this distance.



2

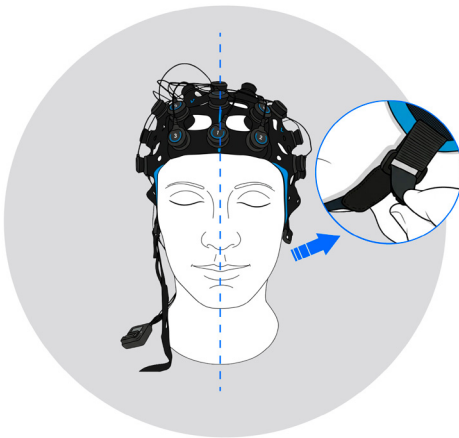
Start by placing the cap on the forehead, then adjust the rest so it fits snugly around the head. Make sure the Cz sensor is positioned correctly by double-checking with the measuring tape.



Equipment Setup

3

Make sure the cap is centered by checking that the side sensors are evenly aligned with the central line of sensors.



4

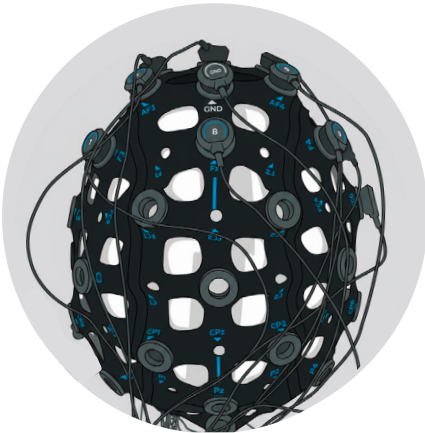
Attach the chin strap. Make sure the cap fits snugly on the head—secure, but not too tight.



Fitting the device

5

Arrange all cables as shown in the picture. Make sure they're securely fastened to the head for optimal signal quality.



6

Secure the cables using the four velcro straps.



Setting Up the Equipment

7

Use the securing tape to keep the cables in place and prevent them from moving while the device is in use.



8

Plug the EEG connector or connectors into the amplifier. For a proper connection, you should hear a 'click'.

If you're only recording 16 channels with the 32-channel amplifier (VP2 model), place the protective cap on the 17-32 channel connector.



9

Attach the amplifier to the Velcro located at the back of the cap.



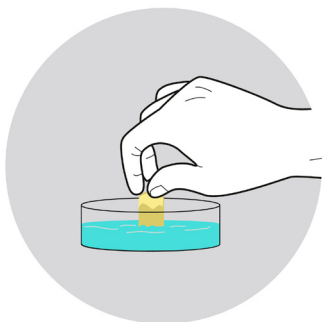
10

How to attach the clip:

1. Start by picking up one of the small sponges and dampen it with water. Make sure it's just moist— not soaking—by gently pressing on it.
2. Next, place the sponge inside the clip, right over the metal sensor. To do this, fit the sponge between the tabs that surround the sensor to keep it in place, just as shown in the image.
3. Now, attach the clip to your earlobe, making sure the sponge is positioned at the back.

Placing the device

1.



2.



3.



Preparing for Data Logging via Cable

1

Connect the Isolator to the amplifier, then connect the Isolator to your computer.

Then, turn on the amplifier by sliding the power button (I). The white connection LED will stop flashing.

IMPORTANT:

Always connect the amplifier to the isolator before making any USB cable recordings. This helps prevent external noise and electrical surges.



Preparing for Wireless Data Recording

1

Place the USB-C cover on the amplifier, over the isolator port, to prevent electrostatic discharge that could disconnect the device during recording.

2

Turn on the amplifier by sliding the power button (I). The wireless connection white LED will blink until the software connects, then it'll stay on solid.

IMPORTANT:

Starting a recording with a low battery is not recommended, as it can impact signal quality. Do not use the device while it's charging.

3

This device wirelessly transmits data via Bluetooth technology.

You can save data to:

- The computer paired with the device. Keep in mind that if Bluetooth connectivity between the device and your computer is lost, these interruptions will lead to data loss.
- MicroSD Card. In this mode, the signal will continue to stream wirelessly, so you can keep viewing and recording in real time on your computer while data is also saved to the memory card inside the amplifier.

Pairing

Make sure your computer is equipped with a Bluetooth adapter version 2.1 or higher. You'll need to pair the device the first time you use it. Pairing can be done from the Windows "Settings > Devices" screen. The device name matches its serial number (S/N), which you'll find on the label attached to the unit.

Backing up data with MicroSD

1. Enable the "SD card record" option in the software to back up your data.

Saved files are stored in .sdf format. To convert files to .edf and .csv formats, follow the conversion process.

Transferring Data to Your Computer

Connect the Isolator to both the amplifier and your computer.

In the software, enable data download mode.

Signal Acquisition

1

On the software screen, you can view the EEG signal collected by the device in real time.

The impedance color will show how well each electrode is making contact. The quality depends on placement.



Signal Acquisition

2

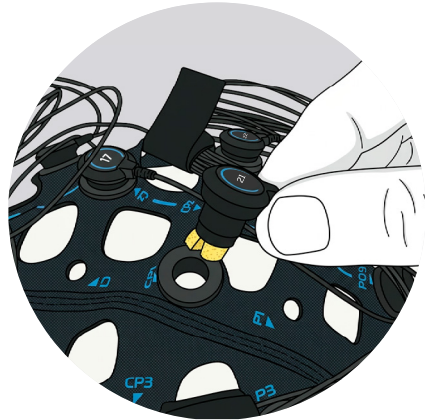
If any of the sensors show low impedance quality

Press the sensor gently against your head again, making a small circular motion as you do so.



Please wait a few seconds—up to 10s—for the signal to stabilize.

If it's still not working, try repeating this step once or twice more.

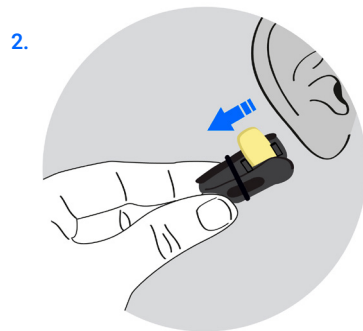


If you still don't get a strong signal, check the moisture level in the inner sponge. If the sponge feels dry or barely damp, re-moisten it.

Afterward, press the sensor again and wait until you get a signal.

Device Removal

1. Turn off and unplug the amplifier.
2. Next, remove the **clip** and the **chin strap**.
3. Take off the cap starting from the forehead.



Removing the device

4. To remove the electrodes, grasp the head of the electrode and gently twist and pull while keeping the base in place to help release it. **Remember to pull from the body of the electrode, NOT the cable, to avoid causing any damage.**
5. Remove the sponges. For hygiene reasons, we recommend disposing of them after each use.

4



5



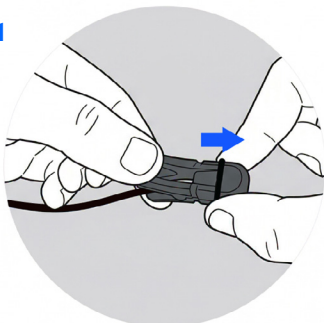
Maintenance

Replacing the Elastic Band REF Sensor

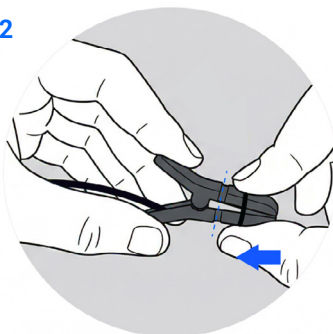
If the elastic band holding the REF sensor clip is lost, broken, or shows signs of wear, you can easily replace it with one of the spare bands included with the equipment.

To do this, remove the old band by sliding it out, then insert a new one (with the clip closed) until it fits securely into the slot, as shown in the image. Make sure the clip opens and closes smoothly.

1



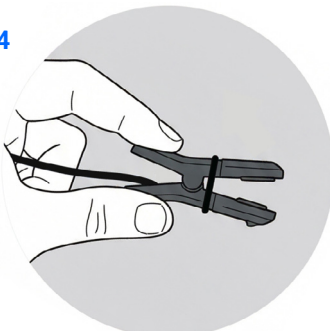
2



3



4



Storage

- Whenever you're not using the product, keep it stored in its original packaging.
- Place the protective cover over the EEG connectors to keep dust out when the amplifier isn't in use.
- If you need to store the device for an extended period (several weeks or months), it's best not to leave the battery fully charged. Keeping it at 100% for long periods can wear down the battery and reduce the device's battery life.



Cleaning and Disinfection

We recommend using Clinell® Universal Wipes.

1. Put on protective gloves and remove a wipe from its packaging.
2. Wipe the surface in an 'S' pattern, starting with the cleanest areas and moving toward the dirtier ones. Make sure each spot is cleaned only once.
3. Replace the wipe as soon as it becomes dry or dirty, and discard it. Clean gently, steering clear of the connectors to keep liquid from getting into the amplifier—which could damage it internally.
4. Allow the surface to air dry.

Cleaning the Cap with or without the sensors:

To clean the cap with the sensors, use the washing bracelet to protect the connectors while washing.

Wash with cold water mixed with a gentle cleaning gel (Ivory Dish Soap is recommended). Rinse thoroughly and lay flat to dry. Do not use harsh cleaners or shampoo. Use 10 ml of soap per litre of water.

Do not touch or rub the inner surface of the sensors.

Disinfecting the Cap with or without Sensors:

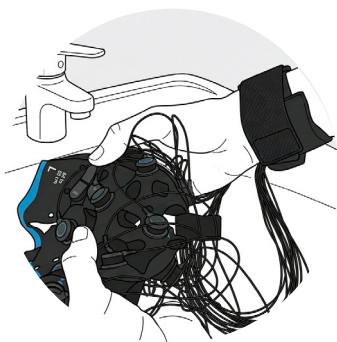
To clean the cap with the sensors, use the washing bracelet to protect the connectors while washing.

The cap can be disinfected with the sensors still attached.

Use the cleaning cover to shield the connectors while disinfecting the cap and sensors, following these steps:

- Insert the connector(s) into the pocket.
- Close the pocket.
- Wrap the Velcro band around the wrist, making sure it stays away from moisture.
- Wash the cap with the sensors attached.

- For disinfection, it is recommended to use 20ml of Bomix® mixed with one litre of tap water.
- Let it soak for 5 minutes.
- Rinse thoroughly and lay flat to dry.
- Do not touch or rub the inner surface of the sensors during the process.

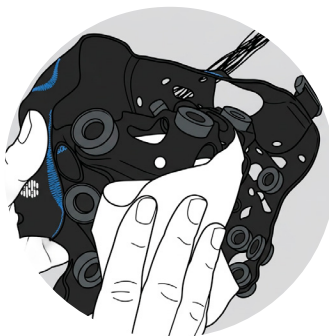


Cap disinfection between users

There is the possibility to perform a mild disinfection between users to avoid drying times.

We recommend using Clinell® Universal Wipes.

1. Do not remove the sensors.
2. Put on protective gloves and remove a wipe from its packaging.
3. Wipe the surface inside the cap in an 'S' pattern. Try to touch the base of the sensor and the neoprene but do not touch the sensors with the wipe.
4. Replace the wipe as soon as it becomes dry or dirty, and discard it. Clean gently.
5. Allow the surface to air dry.



Never use any other disinfectants. Using non-approved cleaning products may damage the equipment and impact signal quality obtained.

Adjustment and Repair

No technical settings need to be changed for proper operation of the product. Repairs should only be carried out by the manufacturer's technical service team or their authorized representatives.

The maintenance tasks described in this document for users do not require access to the internal parts of the product. Please follow only the instructions provided in the Cleaning and Disinfection section of this document.

Do not perform any action that involves removing the product covers. Any malfunction caused by improper maintenance or repairs performed by anyone other than the manufacturer or authorized personnel is the sole responsibility of the user.

If you run into any issues while using the product, please refer to the Troubleshooting Guide section in this manual before contacting technical support.

WARNING: This product does not contain any user-adjustable or user serviceable parts. Opening, repairing, or modifying the product by unauthorized personnel may cause serious damage and will void the warranty.

Troubleshooting

This section provides some helpful tips for resolving simple issues that may occur when using the product. (Note: Computer support issues are not covered here. Please refer to your manufacturer’s documentation for those.)

The suggestions below focus on hardware-related issues that might come up during recording. If you experience any of these, try these solutions before reaching out for technical support.

Note: If you encounter an issue not listed here, or if the suggested fix doesn’t solve the problem, don’t hesitate to contact your provider for technical assistance.

Issue	Possible Cause	Recommended Solution
The amplifier’s LED lights are not turning on.	The amplifier’s battery is depleted.	Recharge the amplifier using the charging cable provided for this purpose.
The software does not recognize the EEG bundle(s) currently in use.	The EEG connector is not properly plugged in.	Remove the connector from the bundle and reconnect it. You should hear a click.
Signal quality check was not successful.	The device is not positioned correctly.	See page 34.
The rubber on the clip is broken.	The rubber has worn out from use.	See page 37.

Compliance

This device is classified as radio equipment and considered information technology equipment.

The CE marking certifies compliance with the essential requirements of the RED Directive (2014/53/EU).

The built-in Bluetooth module complies with this Directive and is used following the manufacturer's instructions and specified requirements.



EU Declaration of Conformity

BIT & BRAIN TECHNOLOGIES, S.L.
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As the manufacturer of:
Brand: BITBRAIN
Product: Versatile Plus 16/32ch EEG
Models: VP1 and VP2

Product composition				
VP1	16ch Amplifier, model BBT-VP1	Isolator, model BBT-VPA	EEG Electrode Set 1-16ch + GND + REF, model BBT-VPB	-
VP2	32ch Amplifier, model BBT-VP2	Isolator, model BBT-VPA	EEG Electrode Set 1-16ch + GND + REF, model BBT-VPB	EEG Electrode Set 17-32ch, model BBT-VPC

DECLARES under its sole responsibility that the above equipment complies with the essential requirements and other relevant requirements of:

Directive 2014/53/EU on Radio Equipment (RED).
Directive 2011/65/EU and its amendment, Directive (EU) 2015/863 on the restriction of certain
Hazardous Substances in electrical and electronic equipment (RoHS).
And that the following standards and regulations have been fully implemented in accordance with both directives:

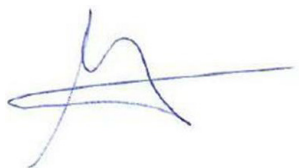
Article 3.1 (a) User Health and Safety (RED):
UNE EN IEC 62368-1:2024 + /A11:2024
EN 62311:2008

Article 3.1 (b) Electromagnetic Compatibility (EMC-RED):
ETSI EN 301 489-1 V2.2.3 (2019-11)
ETSI EN 301 489-17 V3.2.4 (2020-09)
EN 55032:2015 + /A1:2020 + A11:2020
EN 61000-4-2:2009
EN 61000-4-3:2020

Article 3.2 Effective use of assigned spectrum (RED):
EN 300 328 V2.2.2

Article 4 Restriction of the Use of Certain Hazardous Substances
(RoHS)
EN IEC 63000:2018

Zaragoza - 21/07/2026

A handwritten signature in blue ink, consisting of a stylized 'M' followed by a horizontal line and a diagonal stroke.

Fdo. María López Valdés, CEO Bitbrain

Recycling Information

Note on Product Disposal:

If this product is damaged beyond repair or has reached the end of its useful life, please check local, state, and European regulations regarding safe disposal and recycling of products containing lead, batteries, plastics, and other materials. Also, find out where to drop off and recycle these types of items.

Do not throw electrical or electronic devices in the trash! According to European Directive 2012/19/EU on waste electrical and electronic equipment, these items must be taken to proper collection facilities for environmentally responsible recycling.



This symbol means this product shouldn't be thrown away with household waste. Please take it to the proper collection point for recycling electrical devices. Recycling these items properly helps protect both your health and the environment.



This symbol shows the product contains batteries that must not be disposed of with regular trash. Once this product reaches the end of its life, please take it to an appropriate collection center so the included batteries can be recycled safely.



This product is recyclable and should be processed accordingly.

Warranty Terms

The warranty terms for this product, including duration, how to file a claim, as well as any exclusions or limitations, are outlined in the “General Terms and Conditions of Sale and Use of Bitbrain Products,” available at <https://downloads.bitbrain.com/documents/terms-and-conditions-eu>



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More info

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Help Center

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