



# ZhenTec Wireless Multi-channel EEG Acquisition and Analysis System User Manual

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# ZhenTech

## ZhenTec Wireless Multi-channel EEG Acquisition and Analysis System



### Overview



1. Wireless EEG/ERP Multichannel Amplifier
2. EEG Cap
3. USB Wireless Trigger

4. Wireless Synchronous Receiver (including power supply)
5. Display Structure of Wireless Multi-channel EEG Acquisition and Analysis System

## Hardware Install

1. Assemble and connect the Wireless Synchronization Receiver and its power adapter to the power supply.
2. The computer is connected by cable segments to the Wireless Synchronization Receiver.
3. Load the battery into the Wireless EEG/ERP Multichannel Amplifier and fix it to the EEG Cap as shown in the figure below(The text on the plug is face outward!). Turn on and observe whether the indicator is on.



4. The EEG Cap is positioned on the subject's head.

## Software Install

- 1) Right click the executable “ZhenTecBCIServer\_Setup\_v\*.0.exe” and select “Run as administrator”.
  - 2) Step by step installation.
  - 3) After the installation, the shortcut icon of the software is visible on the desktop.
- 2) 4) The amplifier needs to be initialized for the first time.
  - 5) If USB Wireless Trigger is matched, continue to install the driver.

## Signal Acquisition

1. The ZhenTecBCIServer is used to collect and record the EEG signals.

## Contraindications

- 1) Severe scalp trauma, severe brain trauma, allergy to conductive paste.
  - 2) Restlessness, anxiety, confusion.

## Security Information

- 1) This product is only used for Neuroscience Research
  - 2) Do not touch the device while monitoring is in progress.
  - 3) This product has no waterproof protection, so it is forbidden to use when the product is wet.

- 4) This product is easily affected by other Radio-Frequency equipment.
- 5) The use of unmatched cables or electrodes may result in higher EMC emissions and lower EMC immunity.
2. 6) Forbidden: Patients with an implanted pacemaker, Intracranial electrodes, implantable defibrillators, cardiopathy, or another prosthesis.

## Cleaning

1. 1) Turn off the Wireless EEG/ERP Multichannel Amplifier;
- 2) Take the Wireless EEG/ERP Multichannel Amplifier off the EEG cap;
- 3) Soak the EEG cap in warm water for 10-15 minutes, and then dissolve the conductive paste. A small amount of residual conductive paste can be washed with the attached cleaning brush;
2. 4) Hang the cleaned EEG cap in a ventilated place and dry in the shade.

## FCC Caution

This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation. any changes or modifications, not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

**Note:** This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates uses and can radiate radio frequency energy and if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/tv technician for help.

This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment.

## Documents / Resources

	<p><a href="#">ZhenTec Wireless Multi-channel EEG Acquisition and Analysis System</a> [pdf] User Manual NT1-32, NT132, 2AYJBNT1-32, 2AYJBNT132, Wireless Multi-channel EEG Acquisition and Analysis System</p>
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