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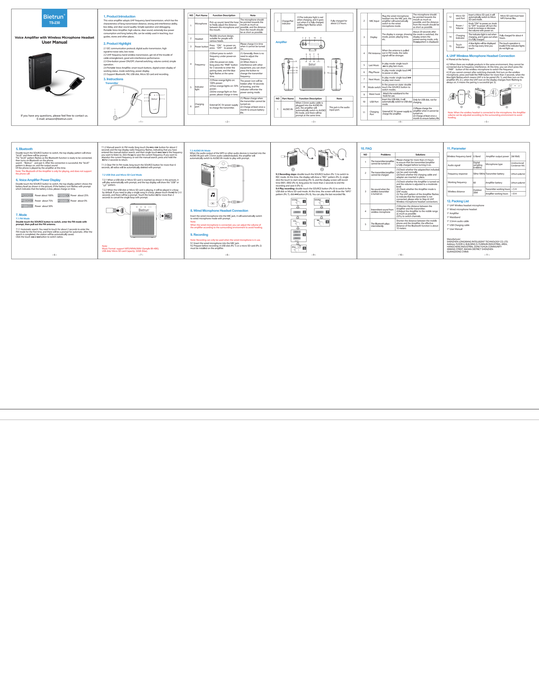

Bietrun Team

Voice Amplifier with Wireless Microphone Headset User Manual

If you have any questions, please feel free to contact us.
E-mail: sales@bietrun.com

1. Product Introduction

Bietrun Wireless Microphone Systems, based on wireless signal transmission, extend the microphone's effective transmission distance, ensuring uninterrupted audio transmission even in complex environments. The system supports multi-channel operation, allowing multiple microphones to be used simultaneously, making it ideal for classrooms, lectures, and small-scale performances. Portable Voice Amplifier High volume, clear sound, extending the power of your voice to every corner. Lightweight design for easy carrying and long-lasting use, perfect for teaching and outdoor activities.

2. Product Highlight

- Multi-channel operation: Supports multiple microphones, high stability and interference-free.
- Long-range transmission: Wireless transmission, ideal for classrooms or small gatherings, quick and interference-free setup.
- Portable design: Lightweight and compact, easy to carry, suitable for outdoor activities.
- Multi-function: Supports microphone and audio input, equipped with volume control, tone adjustment, and battery level display.

3. Instructions

Connection

NO	Part Name	Function Description	Note
1	Microphone	Pick up sound and transmit it to the amplifier via wireless signal. Supports multi-channel operation for simultaneous use of multiple microphones.	Charge before first use. Keep the microphone and receiver within the effective transmission range for stable connection.
2	Speaker	Amplify and output the received audio signal.	Adjust volume to avoid distortion.
3	Power button	Press 1 time: Turn on/off the amplifier. Press 3 times: Switch between wireless and wired mode.	Ensure sufficient battery before use.
4	Frequency	Adjust the wireless transmission frequency to avoid interference from other devices.	Choose a clear frequency channel for better signal stability.
5	Volume control	Adjust the overall output volume of the amplifier.	Avoid high volume to prevent distortion and protect hearing.
6	Charging port	Connect to the power supply to charge the microphone.	Use the provided cable and adapter. Avoid overcharging to extend battery life.
7	Charging port	Connect to the power supply to charge the amplifier.	Use the provided cable and adapter. Avoid overcharging to extend battery life.

Connection Diagram

Amplifier

NO	Part Name	Function Description	Note
8	Speaker	Amplify and output the received audio signal.	Adjust volume to avoid distortion.
9	Power button	Press 1 time: Turn on/off the amplifier. Press 3 times: Switch between wireless and wired mode.	Ensure sufficient battery before use.
10	Microphone	Pick up sound and transmit it to the amplifier via wireless signal. Supports multi-channel operation for simultaneous use of multiple microphones.	Charge before first use. Keep the microphone and receiver within the effective transmission range for stable connection.
11	Pairing button	Pair the microphone with the receiver.	Ensure the microphone and receiver are within the effective transmission range.
12	Pairing button	Pair the microphone with the receiver.	Ensure the microphone and receiver are within the effective transmission range.
13	Volume control	Adjust the overall output volume of the amplifier.	Avoid high volume to prevent distortion and protect hearing.
14	Frequency	Adjust the wireless transmission frequency to avoid interference from other devices.	Choose a clear frequency channel for better signal stability.
15	Frequency	Adjust the wireless transmission frequency to avoid interference from other devices.	Choose a clear frequency channel for better signal stability.
16	Charging port	Connect to the power supply to charge the amplifier.	Use the provided cable and adapter. Avoid overcharging to extend battery life.
17	Charging port	Connect to the power supply to charge the amplifier.	Use the provided cable and adapter. Avoid overcharging to extend battery life.

4. Bluetooth

Bluetooth Connection: Bluetooth connection is similar to other any Bluetooth devices. Turn on the Bluetooth function on your device, then select the device name "Bietrun" to pair and connect. Bluetooth Pairing: Long press the Bluetooth function to enter the Bluetooth pairing mode. "Bietrun" will appear in the list. Bluetooth Reconnection: Bluetooth reconnection is automatic the "last" Bluetooth device paired to the amplifier. If the last device is not available, the amplifier will attempt to connect to the next paired Bluetooth device.

Note: Ensure the Bluetooth function is enabled on your device and search and connect to the "Bietrun" device.

5. Voice Amplifier Power Display

Double press the Power button to enter the Voice Amplifier battery mode. The battery level will be displayed on the amplifier's display. The battery level is indicated by the number of bars on the battery icon:

- Four bars: 75%–100%
- Three bars: 50%–75%
- Two bars: 25%–50%
- One bar: below 25%
- Four bars: above 25%
- Three bars: above 50%
- Two bars: above 75%
- One bar: above 100%

6. Mode

Switch Mode:
Double press the Power button to switch, press the PW button with pairing button and pair the microphone.

Microphone Mute: Short press the microphone button to mute the microphone. The LED indicator will turn red. Short press the microphone button again to unmute the microphone. The LED indicator will turn blue.

Microphone Pairing: Short press the microphone button and the receiver pairing button to pair the microphone and receiver.

7. Wired Connection

1. Connect the Wired Microphone to the Amplifier: Insert the wired microphone into the Microphone port on the amplifier. The amplifier will automatically switch to wired mode and the microphone will pair with the amplifier. The LED indicator will turn red.

2. Connect the Amplifier to the Audio Input Device: Insert the audio input device into the Audio Input port on the amplifier. The amplifier will automatically switch to wired mode and the audio input device will pair with the amplifier. The LED indicator will turn red.

Note:
Wired connection supports USB Wired Mode (Type-A to Mic), 3.5mm Wired Mode and Bluetooth Mode.

8. Wired Microphone Headset Connection

Insert the wired microphone into the Microphone port and the headset into the Headset port on the amplifier. The LED indicator will turn red.

Note: Ensure compatibility is maintained when connecting the wired microphone and headset to the amplifier. Incompatible devices may affect performance.

9. Recording

Short press the Rec button on the receiver to start recording. Short press the Rec button again to stop recording. The recorded audio will be saved in the receiver's internal memory. Supported formats: WAV, MP3. The receiver can record for up to 10 hours.

10. FAQ

NO	Problem	Solutions
1	The microphone and receiver cannot pair.	Ensure the microphone and receiver are within the effective transmission range. Try pairing again.
2	The microphone/amplifier cannot connect.	Ensure the microphone and receiver are within the effective transmission range. Check if the microphone/amplifier is connected to other devices. Try pairing again.
3	The microphone/amplifier cannot connect to other devices.	Ensure the microphone/amplifier is not connected to other devices. Check if the microphone/amplifier is connected to other devices. Try pairing again.
4	The microphone/amplifier cannot connect to other devices.	Ensure the microphone/amplifier is not connected to other devices. Check if the microphone/amplifier is connected to other devices. Try pairing again.
5	Unable to pair the microphone/receiver.	Ensure the microphone/receiver is not connected to other devices. Check if the microphone/receiver is connected to other devices. Try pairing again.
6	Unable to pair the microphone/receiver.	Ensure the microphone/receiver is not connected to other devices. Check if the microphone/receiver is connected to other devices. Try pairing again.
7	The Bluetooth Mute function is not working.	Ensure the Bluetooth Mute function is enabled. Check if the Bluetooth Mute function is connected to other devices.

11. Parameter

Wireless Frequency band	2.4GHz	Amplifier output power	30 Watts
Audio signal	Wireless: 48kHz Wired: 44.1kHz	Amplifier type	Class D digital amplifier
Frequency response	50Hz-18kHz	Receiver battery	2Pcs(1.5V AA)
Working Frequency	2.4GHz	Amplifier battery	2Pcs(1.5V AA)
Wireless distance	Open Area: 30m Indoor: 15m	Receiver consumption	0.5W
		Receiver working time	10H

12. Packing List

- 1 set Wireless Bietrun microphone
- 1 set Wired Bietrun microphone
- 1 Amplifier
- 1 Receiver
- 1 3.5mm audio cable
- 1 USB Charging cable
- 1 User Manual

Manufacturer:
Shenzhen Xuanxiang electronic technology Co., Ltd.
Shenzhen Xuanxiang Technology Co., Ltd.
Address: Room 1101, Building 1, Zhongxin Industrial Park, Shenzhen Xuanxiang Technology Co., Ltd.
Shenzhen, China
Manufacturer's Office

日　　期	
产品名称	Bietrun无线扩音器 TS-230说明书
型　　号	TS-230
文 件 名	
图纸类型	手板☐ 打样☐ 生产☐
版 本 号	1
设　　计	
确　　认	
批　　准	

深圳璟都科技有限公司

图例：

工艺要求说明：

尺寸：85*115mm
材质：128g 彩色印刷 风琴折页

备注：

FCC Warning

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.

The device has been evaluated to meet general RF exposure requirement. The device can be used in portable exposure condition without restriction.