

## Bietrun WXM21-2

# Bietrun WXM21-2 Wireless Microphone System User Manual

Model: WXM21-2 | Brand: Bietrun

## 1. PRODUCT OVERVIEW

The Bietrun WXM21-2 is a professional UHF dual handheld dynamic metal microphone system designed for various audio applications, including karaoke, public speaking, and live performances. It features a rechargeable receiver and offers both UHF and Bluetooth connectivity for versatile use.

- **Wireless Connectivity:** Built-in high sensitivity professional Dynamic Unidirectional microphone core with a transmission distance of up to 160 feet (open place) via UHF, and Bluetooth connectivity up to 32 feet.
- **Enhanced Signal:** Designed for stable signal, no delay, no radiation, anti-howling, anti-jamming, and constant frequency.
- **Durable Construction:** The microphone outer case is made of alloy material, providing durability, lightness, and wear resistance.
- **Plug and Play:** No pairing required for initial setup. Connects to input devices with 6.35mm (1/4") or 3.5mm (1/8") MIC interfaces.
- **Rechargeable Receiver:** The receiver has a built-in 1200mAh battery, offering 8 hours of use time and fully charging in 3 hours.
- **Battery Display:** Microphones feature a display showing battery power and signal strength in real-time.
- **Multipurpose Use:** Ideal for conferences, speeches, web podcasts, yoga instructors, church events, family parties, opening ceremonies, dancing instructors, and promotions.

## 2. WHAT'S IN THE BOX

Upon opening the package, you should find the following components:

- 2 x Bietrun WXM21-2 Wireless Microphones
- 1 x Rechargeable Receiver (6.35mm jack)
- 1 x USB Charging Cable
- 1 x 3.5mm Audio Adapter (for receiver)
- 2 x Anti-Roll Rings (silicone, for microphones)
- 1 x Microphone Stand (as listed in product details)



Figure 2.1: Package Contents. Shows two Bietrun wireless microphones, a compact receiver, a USB charging cable, a 3.5mm audio adapter, and two colorful anti-roll rings.

### 3. SETUP GUIDE

#### 1. Insert Batteries into Microphones:

Unscrew the bottom part of each microphone. Insert two AA alkaline batteries (not included) into each microphone, ensuring correct polarity. Screw the bottom part back on securely.

## MicroPhone And Receiver Power

Receiver Built-in 1200mAH lithium Battery, Long Time Work



Figure 3.1: Microphone Battery Installation. Illustrates the battery compartment at the base of the microphone, requiring two AA batteries.

### 2. Charge the Receiver:

Connect the small end of the USB charging cable to the receiver's charging port and the other end to a USB power source (e.g., phone charger, computer USB port). The power light on the receiver will be red during charging and turn off when fully charged. A full charge takes approximately 3 hours.

## Rechargeable Receiver User Guide

Light indication, very simple



Figure 3.2: Receiver Charging and Indicators. Details the USB charging port, power light (red for charging, off when full), and lights for Microphone Channel A, Bluetooth, and Microphone Channel B.

### 3. Connect the Receiver to an Audio Device:

Insert the 6.35mm jack of the receiver directly into the MIC input of your speaker, singing machine, audio amplifier, PA system, or voice amplifier. If your device has a 3.5mm MIC input, use the included 3.5mm audio adapter.

**Important: Ensure you connect to the MIC jack, not an AUX jack. This system is not compatible with TV or Bluetooth speakers directly (unless using the receiver's Bluetooth feature to stream music to the speaker).**



## Support Multiple Multimedia Devices-1/4"

Only suitable for equipment with 6.35mm (1/4") interface



Figure 3.3: Compatible Devices and Connection Method. Shows the receiver connecting to a 6.35mm MIC input, with a clear distinction between correct MIC input and incorrect AUX input.

### 4. Power On:

Long press the power button on the receiver to turn it on. Then, long press the power button on each microphone to turn them on. The microphones and receiver should automatically connect.

## 4. OPERATING INSTRUCTIONS

### 4.1 Microphone Operation

- **Power On/Off:** Long press the power button on the microphone.
- **Volume Control:** Short press the power button to adjust the volume (levels 1-8).
- **Channel Switching:** If you experience interference or need to use multiple microphones simultaneously, open the microphone battery cover and locate the channel switch. Each microphone has an inconsistent channel number to avoid interference. Switch channels as needed. The display will show the current channel (CHA).

## No Need To Pair, Plug And Play

Plug in 6.35MM MIC hole. Ready to use



Figure 4.1: Microphone Controls. Highlights the power button for volume and power, and the internal switch for changing frequency channels.

### 4.2 Bluetooth Connectivity (Receiver)

The receiver can also function as a Bluetooth receiver, allowing you to stream music from your smartphone or other Bluetooth-enabled devices to your connected speaker system for karaoke or music playback.

1. Ensure the receiver is powered on and connected to your audio system's MIC input.
2. On your smartphone or Bluetooth-enabled device, turn on Bluetooth.
3. Search for Bluetooth devices and select "Bietrun" from the list to connect.
4. Once connected, you can play music through your audio system.



Figure 4.2: Bluetooth Connection Diagram. Shows how to pair a mobile device with the receiver to stream audio to a connected speaker or amplifier.

*Your browser does not support the video tag.*

*Video 4.1: Bietrun-WXM21-2 Wireless Microphone with Bluetooth. This video demonstrates the unboxing and basic setup of the Bietrun WXM21-2 wireless microphone system, including how to insert batteries and connect the receiver.*

## 5. MAINTENANCE

- **Battery Care:** For microphones, use good quality AA alkaline batteries. Remove batteries if the microphones will not be used for an extended period to prevent leakage. For the receiver, ensure it is fully charged before use to maximize operating time.
- **Cleaning:** Wipe the microphones and receiver with a soft, dry cloth. Avoid using harsh chemicals or abrasive cleaners.
- **Storage:** Store the system in a cool, dry place away from direct sunlight and extreme temperatures.
- **Anti-Roll Rings:** Utilize the included anti-roll rings to protect the microphones from rolling off surfaces and potential damage.

## High-Quality Metal Cardioid Handheld Microphone

### Cardioid Handheld Microphone



Figure 5.1: Microphone Construction. Shows the durable steel mesh and internal components designed for quality and longevity.

## 6. TROUBLESHOOTING

### • No Sound from Microphone:

- Ensure both the microphone and receiver have sufficient power.
- Verify the receiver is inserted into the MIC jack of your audio device, not the AUX jack.
- Check if the microphone is powered on.
- If using multiple microphones, ensure each microphone is on a different channel to avoid interference. Open the battery cover and adjust the channel switch.

### • Interference or Poor Sound Quality:

- Change the channel on the microphone (refer to section 4.1).
- Ensure the microphone and receiver are within the specified operating range (160 ft for UHF, 32 ft for Bluetooth).
- Minimize obstacles between the microphone and receiver.

### • Bluetooth Connection Issues:



- Ensure the receiver's Bluetooth is active.
- Confirm your device's Bluetooth is on and searching for devices.
- Make sure you are selecting "Bietrun" from the available devices.
- Note: This system is not supported for direct connection to Bluetooth speakers or MacBooks.

## 7. SPECIFICATIONS

Feature	Specification
Brand	Bietrun
Model Name	WXM21-2
Microphone Form Factor	Handheld
Connectivity Technology	Bluetooth, Auxiliary (UHF)
Connector Type	6.35 mm Jack, 3.5 mm Jack
Special Feature	Built-In Bluetooth (on receiver)
Compatible Devices	Speaker, Singing Machine, Audio Amplifier, PA System, Voice Amplifier
Material	Metal
Power Source	Battery Powered (Microphones: 2x AA, Receiver: 1200mAh Lithium Polymer)
Receiver Battery Life	Up to 8 hours
Receiver Charging Time	Approx. 3 hours
UHF Transmission Range	Up to 160 feet (open place)
Bluetooth Range	Up to 32 feet
Number of Channels	15
Frequency Range	50Hz-16KHz
Signal-to-Noise Ratio	120 dB
Noise Level	15 dB
Product Dimensions (L x W x H)	9.84 x 1.97 x 1.97 inches
Item Weight	1.59 pounds
Polar Pattern	Unidirectional (Cardioid)

## Long-Distance Wireless Signal & Dual Connection Mode

UHF 160Ft, Bluetooth 32Ft



Figure 7.1: Wireless Range. Illustrates the effective operating distances for both UHF (160ft) and Bluetooth (32ft) connections.






Figure 7.2: Product Dimensions. Provides a visual representation of the microphone and receiver sizes.

## 8. WARRANTY AND SUPPORT

Bietrun products are designed for reliability and performance. For any questions, technical support, or warranty claims, please refer to the contact information provided with your purchase or visit the official Bietrun website. Keep your purchase receipt for warranty purposes.

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## Related Documents

	<p><a href="#">Bietrun WXM19 Wireless Microphone System User Manual</a></p> <p>Comprehensive user manual for the Bietrun WXM19 UHF wireless microphone system. Includes setup, operation, troubleshooting, and specifications for optimal performance.</p>
	<p><a href="#">Bietrun Wireless Microphone System User Manual</a></p> <p>Comprehensive user manual for the Bietrun wireless microphone system, detailing features, setup, troubleshooting, and product specifications. Includes information on microphone and receiver operation, Bluetooth connectivity, and package contents.</p>
	<p><a href="#">Bietrun TS-230 Wireless Voice Amplifier User Manual</a></p> <p>User manual for the Bietrun TS-230 Wireless Voice Amplifier, detailing its features, operation, troubleshooting, and specifications. Includes UHF wireless and wired microphone support, Bluetooth, FM radio, USB, and Micro SD card playback.</p>
	<p><a href="#">Bietrun TS-230: Guida all'Amplificatore Portatile con Microfono Wireless</a></p> <p>Scopri il Bietrun TS-230, un sistema amplificatore portatile con microfono wireless, radio FM e riproduzione USB. Questa guida dettagliata offre istruzioni operative, specifiche tecniche e consigli per l'uso.</p>