Bietrun WXM26A

Bietrun 4-Channel Wireless Microphone System User Manual

Model: WXM26A
Brand: Bietrun

INTRODUCTION

This user manual provides comprehensive instructions for the Bietrun 4-Channel Wireless Microphone System (Model WXM26A). This system is designed for professional audio applications, offering clear, stable sound transmission over a range of up to 160 feet. It features four individual handheld microphones with adjustable echo, treble, and bass controls, making it suitable for various uses such as karaoke, church events, conferences, singing performances, and DJ setups. Please read this manual thoroughly before operating the device to ensure proper setup, optimal performance, and longevity of your microphone system.

PACKAGE CONTENTS

Verify that all items listed below are included in your package:

- 1 x Receiver Unit
- 4 x Handheld Microphones
- 2 x Antennas
- 1 x 6.35mm TS Cable
- 4 x Microphone Foam Covers
- 1 x Power Charger
- 1 x User Manual (this document)

SETUP GUIDE

1. Initial Setup and Power Connection

Connect the included power charger to the DC 12V IN port on the receiver unit and plug it into a standard power outlet. Attach the two antennas to the ANT.A and ANT.B ports on the rear of the receiver.

Image: The Bietrun 4-Channel Wireless Microphone System, showing the receiver unit with two antennas and four handheld microphones.

2. Microphone Battery Installation

Each microphone requires 2 AA batteries (not included). Open the battery compartment at the bottom of each microphone and insert the batteries, ensuring correct polarity (+/-) as indicated inside the compartment. Close the compartment securely.
Note: We recommend using high-quality alkaline batteries for optimal performance and battery life.

3. Automatic Connection

Once the receiver is powered on and microphones have batteries, turn on each microphone. The microphones will automatically connect to the receiver. The AF-RF indicator lights on the receiver will illuminate, with the RF light indicating a successful connection.

Image: Close-up of the Bietrun receiver showing the individual volume knobs and the AF-RF indicator lights for each channel (A, B, C, D).

4. Connecting to Audio Devices

The receiver offers multiple output options for connecting to your audio system:

- **6.35mm Mix Output:** Use the included 6.35mm TS cable to connect the "MIX OUT" port on the receiver to the microphone input (e.g., 6.35mm MIC input) of your speaker, amplifier, karaoke machine, or audio mixer.
- **XLR Individual Outputs:** For professional setups, use XLR cables (not included) to connect the individual XLR outputs (BAL.A, BAL.B, BAL.C, BAL.D) to the corresponding XLR inputs on your audio mixer. This allows for independent control of each microphone channel.

Multi-Device Connection Support

Connect Audio Devices with 6.35mm Mix Port/XLR

XLR to XLR
(Cables are Not Incuded)

Audio Mixer

DC 12V IN

6.35mm to 6.35mm

Speaker   Mixer

Optimum Boot Order:

Audio Mixer •┄┄┄┄• Audio Amplifer •┄┄┄┄• Stage Speaker •┄┄┄┄• Receiver •┄┄┄┄• Microphone

Optimum Shutdown Order:

Microphone •┄┄┄┄• Receiver •┄┄┄┄• Stage Speaker •┄┄┄┄• Audio Amplifer •┄┄┄┄• Audio Mixer

Image: A diagram illustrating various connection methods for the Bietrun receiver, including 6.35mm mix output to a speaker/mixer and XLR outputs to an audio mixer.

5. Optimum Boot and Shutdown Order

To prevent unexpected noise and ensure system stability, follow these recommended power sequences:

Optimum Boot Order: Audio Mixer → Audio Amplifier → Stage Speaker → Receiver → Microphone
Optimum Shutdown Order: Microphone → Receiver → Stage Speaker → Audio Amplifier → Audio Mixer

OPERATING INSTRUCTIONS

1. Microphone Controls (Echo, Treble, Bass, Volume)

Each handheld microphone features integrated controls for sound customization:

- **Echo:** Adjust the reverberation effect (10 levels).
- **Treble:** Control the high-frequency response (5 levels).
- **Bass:** Adjust the low-frequency response (8 levels).

- **Volume:** Control the individual microphone's output volume (5 levels).

Use these controls to tailor the sound to your preference and the specific acoustic environment.

Image: A detailed view of a Bietrun microphone's control panel, highlighting the buttons for Echo, Treble, Bass, and Volume adjustments.

2. Individual Frequency and Interference Resistance

Each of the four microphones operates on its own distinct UHF frequency within the lawful signal bands (500 - 599MHz) with US FCC ID compliance. This design minimizes interference between microphones and from other wireless devices, ensuring clear audio transmission.

- **Mic A:** 552.5 MHz (and 552.6/7/8/9 MHz)
- **Mic B:** 561.5 MHz (and 561.6/7/8/9 MHz)
- **Mic C:** 574.5 MHz (and 574.6/7/8/9 MHz)
- **Mic D:** 581.5 MHz (and 581.6/7/8/9 MHz)

Image: A graphic illustrating the distinct frequency channels (A, B, C, D) for each microphone, displayed on their screens.

3. Operating Range

The Bietrun wireless microphone system offers an operating range of approximately 160 feet (50 meters) in open, unobstructed environments. Performance may vary depending on obstacles, interference, and battery levels.

Image: A visual representation of the 160 feet UHF operating distance between the microphones and the receiver.

4. Indicator Lights

- **AF (Audio Frequency) Indicator Light:** This light turns red when the microphone channel senses sound, indicating audio signal presence.
- **RF (Radio Frequency) Connection Indicator Light:** This light indicates the connection status of the microphones to their corresponding channels (A, B, C, D). A steady light indicates a stable connection.
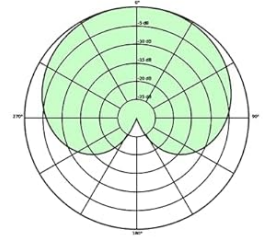
5. Sound Quality and Microphone Design

The Bietrun microphones are equipped with a built-in dynamic unidirectional microphone core (95dB±2dB) designed to deliver crisp, clear sound with minimal dropouts, hiss, or feedback. The design features a solid mesh cover to protect the mic core and thickened insulation cotton to reduce noise and prevent plosives.
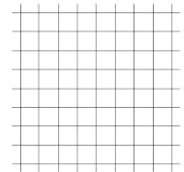
Crispy&Clear Sound

More Lossless Sound

10.2"

Cardioid Pickup Mic

Clear Sound Quality

Solid Mesh Cover

Protect the mic core

Thickened Insulation Cotton

Reduce noise and prevent wheat spray

Image: An illustration detailing the internal design and sound characteristics of the microphone, including its cardioid pickup pattern, solid mesh cover, and thickened insulation cotton for clear audio.

6. Recommended Uses

This versatile wireless microphone system is ideal for a wide range of applications, including but not limited to:

- Karaoke and Singing
- Weddings and Ceremonies
- Church Services
- Conferences and Speeches
- DJ Performances
- Web Podcasts
- Yoga and Dancing Instruction
- Family Parties and Events

Individual Volume Control&Channel Indicator

Good for 4 Person Use

When the channel microphone senses sound, the indicator light is red

Audio Indicator Light AF-RF

Bietrun® WMX26A

A	B	C	D
AF-RF	AF-RF	AF-RF	AF-RF
VOLA	VOLB	VOLC	VOLD

UHF Wireless microphone

POWER

Power Button

Short press to turn on, long pressto turn off

MIC VOL Adjustment

Adjust volume of mic A, B, C, D.
Turn left to decrease the volume, turn right toincrease the volume.

Image: A collage demonstrating the Bietrun microphone system's use in different scenarios, such as meetings, classrooms, karaoke sessions, and event hosting.

MAINTENANCE

Proper maintenance ensures the longevity and optimal performance of your Bietrun wireless microphone system:

1. Cleaning

Use a soft, dry cloth to clean the receiver and microphones. Avoid using abrasive cleaners, solvents, or harsh chemicals.

2. Durability and Handling

The microphones are designed for durability, having undergone strict high and low-temperature tests. They exhibit excellent shatter and shock resistance, with buttons tested for over 50,000 clicks. While robust, always handle the equipment with care to ensure its long-term performance.

Image: A visual representation of the durability features of the microphone, including its resistance to temperature extremes, impact, and the longevity of its buttons.

3. Storage

When not in use for extended periods, remove batteries from the microphones to prevent leakage. Store the system in a cool, dry place away from direct sunlight and extreme temperatures.

4. General Handling

Handle microphones and the receiver with care. Avoid dropping them or subjecting them to strong impacts.

5. Antennas

Ensure antennas are not bent or damaged. Properly position them for best signal reception.

6. Foam Covers

Regularly clean or replace microphone foam covers to maintain hygiene and sound quality.

TROUBLESHOOTING

Problem	Possible Cause	Solution
No sound from microphone	Microphone not turned on. Low or dead batteries in microphone. Microphone not connected to receiver (RF light off). Receiver not powered on. Receiver not connected to audio system. Audio system input volume too low or muted.	Turn on microphone. Replace batteries. Ensure microphone is within range and re-pair if necessary (though auto-connect is standard). Power on receiver. Check all cable connections (6.35mm or XLR) between receiver and audio system. Increase input volume on audio system; check mute settings.
Poor sound quality (static, dropouts)	Microphone too far from receiver. Obstructions between microphone and receiver. Interference from other wireless devices. Low microphone battery.	Reduce distance between microphone and receiver. Ensure clear line of sight. Move away from other electronic devices (Wi-Fi routers, other wireless systems). Replace microphone batteries.
Echo/Treble/Bass controls not working	Microphone not powered on. Controls are at their minimum/maximum settings.	Ensure microphone is on. Adjust controls within their operational range.

SPECIFICATIONS

Feature	Detail
Brand	Bietrun
Model Name	WXM26A
Number of Channels	4
Connectivity Technology	UHF
Frequency Response	552.5 MHz (Individual frequencies for each mic: A-552.5/6/7/8/9 MHz, B-561.5/6/7/8/9 MHz, C-574.5/6/7/8/9 MHz, D-581.5/6/7/8/9 MHz)
Microphone Form Factor	Handheld
Polar Pattern	Unidirectional
Audio Sensitivity	95 dB
Signal-to-Noise Ratio	95 dB

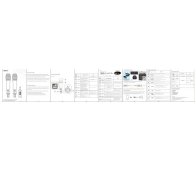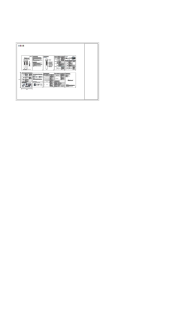| Feature	Detail
Power Source	Corded Electric (Receiver), Battery Powered (Microphones - 2 AA per mic)
Connector Type	1/4 inch mix output, 4 XLR outputs
Compatible Devices	Amplifier, Karaoke Machine, Speakers, Audio Mixers, PA systems
Item Weight	4.88 pounds
Package Dimensions	12.64 x 10.75 x 4.69 inches
Date First Available	July 13, 2023

WARRANTY AND SUPPORT

For warranty information, technical support, or service inquiries regarding your Bietrun 4-Channel Wireless Microphone System, please refer to the contact information provided on the product packaging or visit the official Bietrun website. Keep your purchase receipt as proof of purchase for any warranty claims.
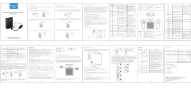
Manufacturer: Bietrun

Related Documents - WXM26A

	[Bietrun WXM30 UHF Professional 8-Channel Rechargeable Wireless Microphone System User Manual](#) This user manual provides detailed information on the Bietrun WXM30, an 8-channel UHF professional rechargeable wireless microphone system. It covers product introduction, description of microphones and receiver, connection guides, troubleshooting (FAQ), technical parameters, packing list, and FCC compliance information.
	[Bietrun Wireless Microphone System User Manual](#) 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.
	[Bietrun WXM09 Wireless UHF Microphone User Manual](#) User manual for the Bietrun WXM09 Wireless UHF Microphone system, detailing product introduction, features, operation, connection, troubleshooting, and specifications.

	Bietrun WXM19 Wireless Microphone System User Manual Comprehensive user manual for the Bietrun WXM19 UHF wireless microphone system. Includes setup, operation, troubleshooting, and specifications for optimal performance.
	Bietrun TS-230 Wireless Voice Amplifier User Manual 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.
	Bietrun TS-230: Guida all'Amplificatore Portatile con Microfono Wireless 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.