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## XTUGA EW240

# XTUGA EW240 UHF 4-Channel Wireless Microphone System

User Manual

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## 1. INTRODUCTION

Thank you for choosing the XTUGA EW240 UHF 4-Channel Wireless Microphone System. This professional wireless microphone system is designed to deliver clear and powerful audio performance for various applications, including family parties, stages, churches, and karaoke. This manual provides detailed instructions for setup, operation, maintenance, and troubleshooting to ensure optimal performance and longevity of your system.

## 2. IMPORTANT SAFETY INFORMATION

- Read all instructions carefully before using the product.
- Keep this manual for future reference.
- Do not expose the unit to rain or moisture to prevent fire or electric shock.
- Ensure proper ventilation and do not block any ventilation openings.
- Use only the power adapter supplied with the unit.
- Do not attempt to disassemble or modify the unit. Refer all servicing to qualified personnel.
- Dispose of batteries according to local regulations.

## 3. PACKAGE CONTENTS

Please check the package to ensure all items are present:

- 1 x 4-Channel Receiver
- 1 x User Manual
- 4 x Bodypack Transmitters
- 4 x Lavalier Microphones

- 4 x Headset Microphones
- 1 x 110V/220V Power Adapter

## 4. PRODUCT OVERVIEW

### 4.1 Receiver Unit

The receiver is the central unit of the wireless microphone system, featuring a durable metal design and individual volume controls for each of its four channels. It includes four receiving antennas for stable signal reception and an LCD display for monitoring operating status.



Front view of the XTUGA EW240 receiver, displaying channel information and controls.



Close-up of the receiver's LCD display, showing active channel frequencies.

## 4.2 Bodypack Transmitters

The system includes four bodypack transmitters, each designed for use with either a lavalier or headset microphone. These transmitters are compact, feature an LCD display for battery and operating status, and are powered by two 1.5V batteries, offering up to 8 hours of continuous use.



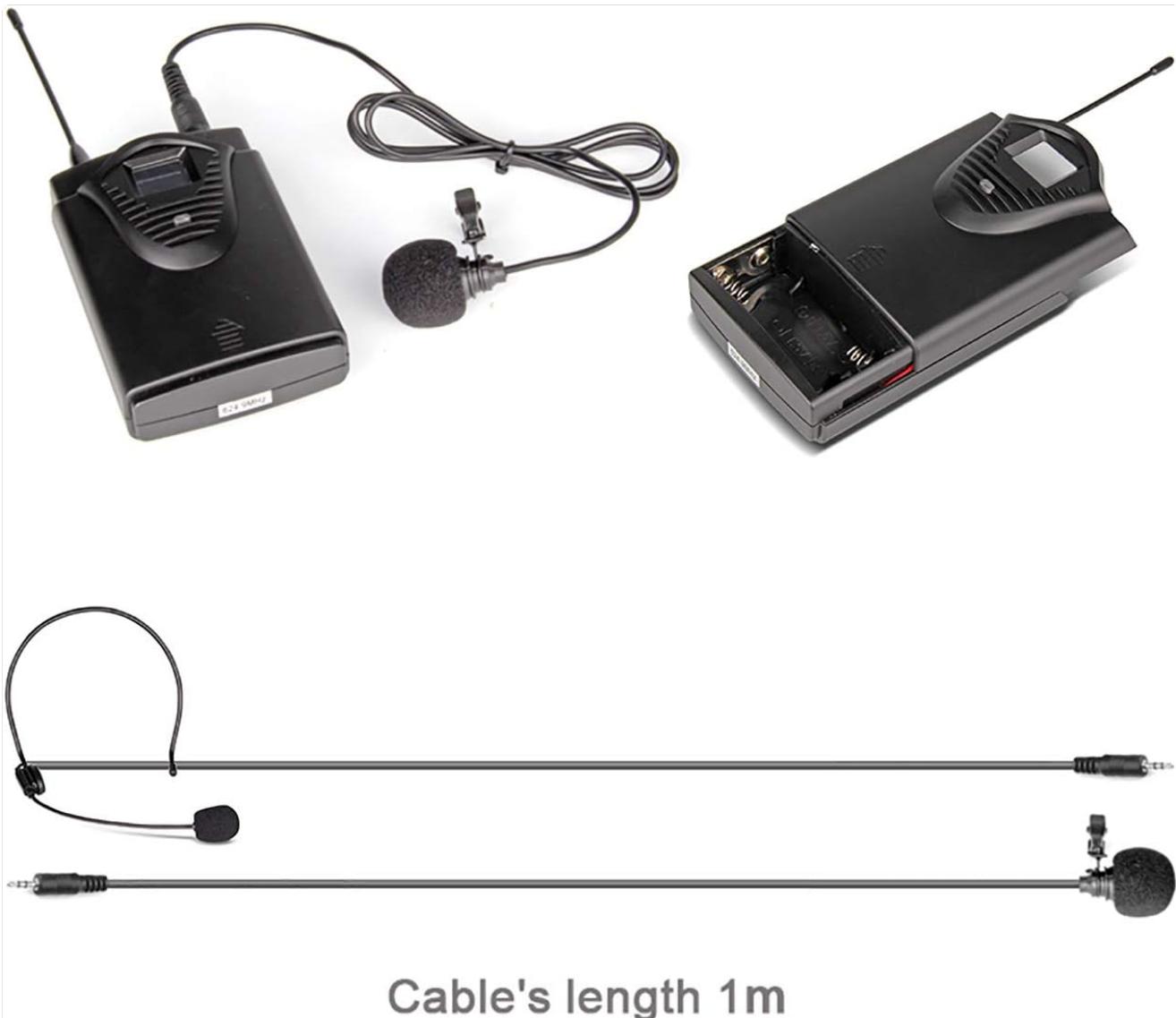
Two bodypack transmitters shown with a headset microphone and a lavalier microphone.



Detailed view of a bodypack transmitter.



Bodypack transmitter with the battery compartment open.



## Cable's length 1m

Bodypack transmitters with connected lavalier and headset microphones.

## 5. SETUP INSTRUCTIONS

### 5.1 Receiver Setup

- Placement:** Place the receiver on a stable, flat surface, away from potential sources of interference (e.g., computers, Wi-Fi routers). Ensure adequate ventilation around the unit.
- Antenna Connection:** Screw the four included antennas onto the ANT A, ANT B, ANT C, and ANT D connectors on the rear panel of the receiver. Position them vertically for optimal signal reception.



Rear view of the receiver with antennas installed.

- Power Connection:** Connect the supplied power adapter to the DC 16V, 400mA input on the rear of the receiver, then plug it into a suitable power outlet.
- Audio Output:** Connect the receiver to your mixer, amplifier, or sound system using either the 6.3cm (1/4 inch) mixed output or the individual 6.3cm (1/4 inch) outputs for each channel (OUT A, OUT B, OUT C, OUT D).



Rear panel connections of the receiver.

## 5.2 Transmitter Setup

- Battery Installation:** Open the battery compartment of each bodypack transmitter. Insert two 1.5V AA batteries, ensuring correct polarity. Close the compartment securely.
- Microphone Connection:** Plug the lavalier or headset microphone into the input jack on the bodypack transmitter.
- Power On:** Turn on the power switch on the bodypack transmitter. The LCD display will illuminate, showing the channel and battery status.

## 6. OPERATING INSTRUCTIONS

- Powering On the System:** First, power on the receiver. Then, power on each bodypack transmitter.
- Volume Adjustment:** Use the individual volume control knobs on the receiver for each channel (CH 01, CH 02, CH 03, CH 04) to adjust the microphone levels. Start with the volume low and gradually increase it to avoid feedback.
- Signal Indicators:** The receiver's LCD display will show the active channel frequencies. The RF (Radio Frequency) and AF (Audio Frequency) indicators will light up when a signal is being received and audio is present, respectively.
- Usage:** Position the lavalier microphone approximately 6-8 inches from your mouth, or wear the headset

microphone comfortably. Speak clearly into the microphone.

5. **Powering Off:** When finished, first turn off the bodypack transmitters, then power off the receiver. This helps prevent pops or thumps through your sound system.

## 7. MAINTENANCE

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- **Cleaning:** Use a soft, dry cloth to clean the receiver and transmitters. Do not use liquid cleaners or solvents.
- **Battery Replacement:** Replace batteries in the bodypack transmitters when the low battery indicator appears on the LCD display. Always use fresh, high-quality 1.5V AA batteries.
- **Storage:** Store the system in a cool, dry place when not in use. Remove batteries from transmitters if storing for extended periods to prevent leakage.
- **Antenna Care:** Handle antennas carefully. Avoid bending them excessively.

## 8. TROUBLESHOOTING

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Problem	Possible Cause	Solution
No sound from microphone	Transmitter or receiver not powered on; low batteries; microphone not connected; receiver output not connected to sound system; volume too low.	Ensure all units are powered on. Replace batteries. Check microphone connection to transmitter. Verify receiver output is connected and sound system is on. Increase receiver and sound system volume.
Poor sound quality/Interference	Interference from other wireless devices; transmitter too far from receiver; antennas not positioned correctly; low batteries.	Move away from other wireless devices. Ensure line of sight between transmitter and receiver. Position antennas vertically. Replace batteries.
Short operating range	Obstructions between transmitter and receiver; antennas not positioned correctly; environmental interference.	Ensure clear line of sight. Position antennas vertically. Avoid using in areas with high RF interference.
Receiver LCD not displaying	Receiver not powered on; power adapter faulty.	Check power connection and ensure receiver is switched on. Try a different power outlet.

## 9. SPECIFICATIONS

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### 9.1 General System

- **Number of Channels:** 4 channels
- **Stability:**  $\pm 0.006\%$
- **Normal Deviation:**  $\pm 22$  kHz
- **S/N Ratio:** <120 dB
- **T.H.D:** <0.6 %
- **Frequency Response:** 50 Hz - 15 kHz
- **Range:** 65 meters

## 9.2 Receiver

- **Sensitivity:** > 80 dB
- **Audio Output:** Balanced and Unbalanced (6.3cm mixed output, four 6.3cm individual outputs)
- **Power Requirements:** AC 16 V, 400 mA
- **Dimensions:** 440 x 210 x 40 mm
- **Weight:** Approximately 1.3 kg
- **Material:** Metal

## 9.3 Wireless Microphone (Transmitter)

- **Cartridge Type:** Dynamic
- **RF Output:** <10 mW
- **Normal Deviation:** ± 22 kHz
- **Maximum Deviation:** ± 80 kHz
- **Battery:** 2 x 1.5 V AA batteries
- **Battery Life:** 8 hours

## 10. WARRANTY AND SUPPORT

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XTUGA products are designed for reliability and performance. For warranty information and technical support, please refer to the contact details provided with your purchase or visit the official XTUGA website. Keep your purchase receipt as proof of purchase for any warranty claims.