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XTUGA A-100

XTUGA A-100 UHF Dual Channel Wireless Microphone System User Manual

Introduction

This manual provides detailed instructions for the setup, operation, and maintenance of your XTUGA A-100 UHF Dual Channel Wireless Microphone System. Please read this manual thoroughly before use to ensure optimal performance and longevity of your device.

The XTUGA A-100 system features a dual-antenna receiver for reliable dual-channel signal reception within the UHF frequency band of 580-690 MHz. Both the transmitter (microphone) and receiver are equipped with VA LCD displays for easy monitoring of operational status. The system offers a transmission distance of approximately 80 meters and utilizes 32-bit independent audio data encryption and ID codes to minimize crosstalk and interference. Each microphone operates for over 6 hours on two 1.5V AA rechargeable batteries.

Package Contents

Carefully unpack your XTUGA A-100 system and verify that all items listed below are included:

- 1 x XTUGA A-100 Receiver
- 2 x Handheld Wireless Microphones
- 1 x Power Adapter (AC 12V)
- 1 x 6.3mm Audio Cable
- 2 x Receiver Antennas (pre-attached or to be attached)



Image: All components included in the XTUGA A-100 package, including the receiver, two microphones, power adapter, and audio cable.

Product Overview

Receiver

The receiver unit is the central hub of your wireless microphone system. It processes the audio signals from the microphones and outputs them to your sound system.



Image: Front view of the XTUGA A-100 receiver, showing the LCD display for Channel 01 and Channel 02 frequencies, CH-A and CH-B volume/selection knobs, and the power button.

Front Panel Features:

- **LCD Display:** Shows current frequency for Channel 01 and Channel 02, and other operational statuses.
- **CH-A** / **CH-B Knobs:** Controls for individual channel volume or frequency selection.
- **Power Button:** Turns the receiver on or off.



Image: Rear view of the XTUGA A-100 receiver, showing antenna connections (ANT.B, ANT.A), 6.3mm audio outputs (OUT A+B, OUT B, OUT A), and the AC 12V power input.

Rear Panel Features:

- **Antenna Connectors (ANT.A, ANT.B):** For attaching the included rubber antennas to improve signal reception.
- **Audio Outputs (OUT A+B, OUT B, OUT A):**6.3mm unbalanced outputs. OUT A+B provides a mixed signal of both channels, while OUT A and OUT B provide individual channel outputs.
- **AC 12V Input:** For connecting the provided power adapter.

Handheld Microphones

The system includes two high-fidelity moving coil handheld microphones, designed for clear and realistic voice reproduction.



Image: Close-up view of one XTUGA A-100 handheld wireless microphone, showing the grille, body, and power/mute switch.

Microphone Features:

- **Power/Mute Switch:** Controls the microphone's power and mute function.
- **Battery Compartment:** Located at the bottom of the microphone, for two 1.5V AA batteries.
- **LCD Display:** (If present, usually small) Shows battery status and channel information.

Setup

Follow these steps to set up your XTUGA A-100 wireless microphone system:

1. **Receiver Placement:** Place the receiver on a stable, flat surface, away from large metal objects, walls, or other electronic devices that may cause interference. Ensure good line-of-sight to the area where the microphones will be used.
2. **Attach Antennas:** Screw the two rubber antennas firmly into the ANT.A and ANT.B connectors on the rear of the receiver. Position them vertically for optimal signal reception.
3. **Connect Power:** Connect the provided AC power adapter to the AC 12V input on the receiver's rear panel, then plug the adapter into a suitable power outlet (AC220-240V 50/60Hz).
4. **Connect Audio Output:** Connect the receiver's audio output to your mixer, amplifier, or sound system. You can use the OUT A+B (mixed output) or individual OUT A / OUT B for separate channel control. Use the supplied 6.3mm audio cable or a compatible cable for your setup.
5. **Install Microphone Batteries:** Unscrew the bottom part of each handheld microphone to access the battery compartment. Insert two 1.5V AA batteries into each microphone, ensuring correct polarity (+/-).
6. **Power On Receiver:** Press the Power button on the receiver's front panel. The LCD display should illuminate.
7. **Power On Microphones:** Slide the power switch on each microphone to the 'ON' position. The microphone's display (if present) should light up. The receiver's LCD should show the synchronized frequencies for each active microphone.



Image: The XTUGA A-100 receiver with both handheld microphones, illustrating the complete system setup.

Operating Instructions

Basic Operation

- **Volume Adjustment:** Use the CH-A and CH-B knobs on the receiver to adjust the individual volume levels of each microphone.
- **Microphone Usage:** Hold the microphone approximately 2-6 inches (5-15 cm) from your mouth for optimal sound quality. Avoid covering the microphone grille with your hand.
- **Mute Function:** If your microphone has a three-position switch (OFF/MUTE/ON), you can temporarily mute the microphone without turning it off.

LCD Display Information

The receiver's LCD display provides critical information:

- **Channel Frequency:** Displays the current operating frequency for Channel 01 and Channel 02.
- **Signal Strength:** Indicates the strength of the received signal from each microphone.
- **Battery Status:** The receiver can monitor the battery status of the transmitters (microphones) and display it, allowing you to anticipate battery replacement.

Operating Range

The system has an ideal operating range of approximately 80 meters (260 feet) in open, unobstructed environments. Performance may vary depending on environmental conditions, obstacles, and interference sources.

Maintenance

- **Cleaning:** Use a soft, dry cloth to clean the receiver and microphones. Do not use liquid cleaners or solvents, as they may damage the finish or internal components.
- **Battery Replacement:** Replace microphone batteries when the low battery indicator appears on the microphone or receiver display, or when audio quality degrades. Always use fresh, high-quality 1.5V AA batteries. Remove batteries if the microphones will not be used for an extended period to prevent leakage.
- **Storage:** Store the system in a cool, dry place, away from direct sunlight and extreme temperatures.

Troubleshooting

If you encounter issues with your XTUGA A-100 system, refer to the following common problems and solutions:

Problem	Possible Cause	Solution
No sound from microphones	• Microphone or receiver not powered on. • Low or dead microphone batteries. • Receiver not connected to sound system. • Receiver volume too low. • Microphone muted.	• Ensure both receiver and microphones are powered on. • Replace microphone batteries. • Check audio cable connection from receiver to sound system. • Increase receiver volume. • Unmute microphone.
Interference or poor signal	• Obstacles between microphone and receiver. • Too far from receiver. • Other wireless devices operating on similar frequencies. • Weak receiver antenna signal.	• Ensure clear line-of-sight. • Reduce distance between microphone and receiver (within 80m). • Move away from other wireless devices or sources of interference. • Adjust receiver antenna position.
Microphone not synchronizing	• Microphone not powered on. • Receiver not powered on. • Frequency mismatch (unlikely with auto-sync).	• Ensure both microphone and receiver are powered on. • If issues persist, power cycle both devices.
Short microphone battery life	• Using non-rechargeable or low-quality batteries. • Batteries are old or worn out.	• Use high-quality 1.5V AA rechargeable batteries. • Replace old batteries with new ones.

Specifications

Detailed technical specifications for the XTUGA A-100 UHF Dual Channel Wireless Microphone System:



Image: Graphic representation of the XTUGA A-100 system specifications for both receiver and transmitter.

System Parameters

- **Audio Frequency Response:** 80Hz - 12KHz
- **Dynamic Range:** ≥ 60dB
- **System Distortion:** ≤ 1%
- **Signal to Noise Ratio:** ≥ 60dB
- **Ideal Distance:** 80 meters
- **Operating Temperature Range:** 5°C - 45°C
- **Carrier Frequency Range:** 580 - 690 MHz

Receiver

- **Receiver Sensitivity:** <2μV
- **Mirror Suppression:** >40dB
- **De-emphasis:** 50μs
- **Audio Output Impedance:** 600Ω
- **Audio Output Level:** 0 - 0.5V
- **Power Supply (Adapter Input):** AC220-240V 50/60Hz
- **Power Consumption:** 3W
- **Dimensions (L x W x H):** 420 x 210 x 45 mm

Transmitter (Handheld Microphone)

- **Frequency Stability:** ±0.005%
- **Carrier Output Power:** ≤30mW
- **Spurious Radiation Suppression:** >40dB
- **Modulation:** FM
- **Maximum Modulation:** ±75KHz
- **Pickup Mode:** Moving Coil
- **Power Supply:** 1.5V AA Battery (x2)
- **Power Consumption:** <30mA
- **Dimensions (Diameter x Length):** Φ37 x 250 mm



Image: Diagram showing the dimensions of the XTUGA A-100 receiver (40mm height, 210mm depth) and handheld microphone (255mm length).

Warranty and Support

For warranty information or technical support, please refer to the documentation provided with your purchase or contact the seller directly. Keep your purchase receipt as proof of purchase.

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