XTUGA U260

XTUGA U-260 Dual Channel UHF Wireless Microphone System User Manual

Model: U-260

1. Introduction

This manual provides detailed instructions for the setup, operation, and maintenance of your XTUGA U-260 Dual Channel UHF Wireless Microphone System. Please read this manual thoroughly before using the product to ensure proper functionality and to maximize its lifespan. Retain this manual for future reference.

2. Product Overview

The XTUGA U-260 is a professional-grade dual UHF wireless microphone system designed for various applications including church events, karaoke, weddings, and other live events. It features a robust design, adjustable frequencies, and convenient auto-scan and IR pairing functions.

2.1. Included Components

- U-260 UHF Wireless Receiver (1 unit)
- UHF Wireless Handheld Microphones (2 units)
- Antennas (2 units)
- Power Adapter (1 unit)
- User's Manual (1 unit)
- Audio Cable (1 unit)
- Anti-skid Rings (2 units)
- Power Plugs (2 units)
- Power Cables (2 units)

Figure 2.1: All components included with the XTUGA U-260 Wireless Microphone System, including the receiver, two microphones, antennas, power adapter, cables, and anti-skid rings.

2.2. Key Features

- **Dual UHF Channels:** Two independent channels with 100 selectable frequencies each (Channel 1: 540.1 - 564.85 MHz; Channel 2: 568.1 - 592.85 MHz).
- **Auto Scan Function:** Automatically searches for the least interference channel.
- **IR Synchronization:** Seamlessly pairs the receiver and microphones.
- **Frequency Lock:** Prevents accidental frequency changes.
- **Long Range Operation:** Up to 492ft (150 meters) operating distance.
- **Durable Construction:** Microphones feature sturdy metal construction.
- **Superior Sound Quality:** High-quality dynamic cartridge designed to limit feedback and interference.
- **Rechargeable Microphones:** Built-in lithium batteries provide up to 8 hours of use on a 3-hour charge via USB-C.
- **Dashboard-Inspired Display:** Receiver features a unique display for AF and RF signal indication.

Figure 2.2: The receiver's display screen, featuring a dashboard-inspired design for clear signal indication.

Figure 2.3: Illustration of the microphone's cardioid pickup pattern, designed to reduce noise and capture sound realistically.

2.3. Component Identification

Figure 2.4: Detailed view of the receiver and microphone components.

1. Volume control
2. Function settings button
3. Switch (Power/Mode)
4. Display screen
5. Power socket (DC 12V)
6. Antenna jack
7. XLR output
8. Audio output (6.35mm/1/4 inch)
9. Steel meshed head (Microphone)
10. Display screen (Microphone)
11. Switch (Microphone Power)
12. Type-C charging port (Microphone)

3. Setup Instructions

1. **Unpack Components:** Carefully remove all items from the packaging.

2. **Connect Antennas:** Screw the two antennas into the antenna jacks on the rear of the receiver. Ensure they are securely tightened.
3. **Power Connection:** Connect the power adapter to the receiver's power socket (DC 12V) and plug it into a suitable power outlet.
4. **Audio Output:**
    - For balanced output, connect XLR cables from the receiver's XLR outputs to your mixer or amplifier.
    - For unbalanced output, use the provided 6.35mm (1/4 inch) audio cable to connect the receiver's audio output to your mixer or amplifier.
5. **Power On Receiver:** Press the power switch on the receiver. The display screen should illuminate.
6. **Charge Microphones:** Before first use, ensure both microphones are fully charged using the provided USB-C cables and power plugs. The microphone display will show charging status.
7. **Power On Microphones:** Press and hold the power switch on each microphone until its display illuminates.

Figure 3.1: The XTUGA U-260 system ready for operation, showing the receiver with antennas and two handheld microphones.

4. Operating Instructions

4.1. Frequency Selection and IR Pairing

The system features an auto-scan function to find clear frequencies and IR synchronization for easy pairing.

Figure 4.1: Diagram illustrating the IR pairing process between the microphone and receiver.

1. **Initiate Auto Scan:** On the receiver, press the "SET" button three times quickly for the desired microphone channel (left or right). The receiver will scan for the clearest available frequency.
2. **Select Frequency (Optional):** If you wish to manually select a frequency after the scan, rotate the volume knob corresponding to the microphone channel you are adjusting.
3. **IR Pairing:** Once a frequency is displayed on the receiver, hold the front of the microphone (where its display is located) close to the IR sensor on the receiver. The IR sensor is located on the bottom left side of the receiver's screen.
4. **Confirm Pairing:** While holding the microphone near the IR sensor, press the "SET" button on the receiver once for the corresponding microphone channel. A small indicator light on the receiver should flash, and the microphone's display will update to show the new frequency, confirming successful pairing. This process may require a couple of attempts to ensure proper alignment and timing.

4.2. Frequency Lock Function

To prevent accidental changes to the selected frequency, use the frequency lock function.

Figure 4.2: Visual representation of the frequency lock function, showing a padlock icon.

- **To Lock:** Press and hold the "SET" button on the receiver for the desired microphone channel until a lock icon appears on the display.
- **To Unlock:** Press and hold the "SET" button again until the lock icon disappears.

4.3. Volume Control

Each microphone channel has an independent volume control knob on the receiver. Rotate the "MIN/MAX" knobs to adjust the output volume for each microphone.

4.4. Microphone Charging

The handheld microphones are equipped with built-in rechargeable lithium batteries.

Figure 4.3: Illustration of microphone battery life (8 hours work) and charging time (3 hours) via USB-C.

- Connect a USB-C cable to the charging port at the bottom of the microphone.
- Connect the other end of the USB-C cable to a power adapter or a USB power source.
- A dim red light on the microphone's display bar indicates charging. The light will turn off or change color when fully charged.
- A full charge typically takes approximately 3 hours and provides up to 8 hours of continuous use.

5. Maintenance

- **Cleaning:** Use a soft, dry cloth to clean the receiver and microphones. Do not use liquid cleaners or solvents.
- **Storage:** Store the system in a cool, dry place away from direct sunlight and extreme temperatures when not in use.
- **Battery Care:** For optimal battery life, avoid fully discharging the microphones frequently. Recharge them regularly, especially if storing for extended periods.
- **Cable Management:** Ensure all cables are connected securely and are not strained or kinked.

6. Troubleshooting

Problem	Possible Cause	Solution
No sound output.	◦ Receiver or microphone not powered on. ◦ Microphone not paired with receiver. ◦ Volume levels too low. ◦ Cables incorrectly connected or faulty.	◦ Ensure all components are powered on. ◦ Perform IR pairing as described in Section 4.1. ◦ Increase volume on receiver and connected audio device. ◦ Check all audio cables for secure connection and integrity.
Interference or static noise.	◦ Interference from other wireless devices. ◦ Weak signal due to distance or obstacles. ◦ Low-quality 1/4 inch audio cable.	◦ Use the auto-scan function to find a clear frequency (Section 4.1). ◦ Reduce distance between microphone and receiver. Ensure line of sight. ◦ If using the 1/4 inch output, consider replacing the included cable with a high-quality shielded cable. For best results, use the XLR outputs.
Microphone not pairing.	◦ Incorrect IR pairing procedure. ◦ Microphone not close enough to IR sensor.	◦ Ensure the microphone's screen is held directly against the receiver's IR sensor (bottom left of the display) during pairing. ◦ Follow the steps in Section 4.1 precisely.
Microphone battery drains quickly.	◦ Battery not fully charged. ◦ Aging battery.	◦ Ensure microphones are charged for the recommended 3 hours. ◦ If battery life significantly degrades over time, contact support for potential battery replacement options.

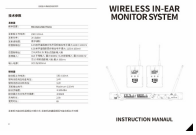
7. Specifications

Feature	Detail
Model	U-260
Brand	XTUGA
Microphone Form Factor	Microphone System (Handheld)
Connectivity Technology	UHF Wireless, XLR
Number of Channels	2 (2x100 selectable frequencies)
Frequency Range (Channel 1)	540.1 - 564.85 MHz
Frequency Range (Channel 2)	568.1 - 592.85 MHz
Operating Range	Up to 492 ft (150 meters)
Polar Pattern	Unidirectional (Cardioid Pickup)
Impedance	600 Ohm
Signal-to-Noise Ratio	120 dB
Microphone Power Source	Built-in Rechargeable Lithium Battery
Microphone Battery Life	Up to 8 hours
Microphone Charging Time	Approximately 3 hours (via USB-C)
Receiver Power Source	DC 12V Power Adapter
Material	Metal (Microphones)
Included Components	Receiver, 2 Handheld Microphones, 2 Antennas, Power Adapter, User Manual, Audio Cable, Anti-skid Rings, Power Plugs, Power Cables
Item Weight	2 kg

8. Warranty and Support

XTUGA provides a one-year free warranty period for products with authentic brand logos. For any questions, technical assistance, or warranty claims, please contact XTUGA customer support through your purchase platform or the official XTUGA website.
Please retain your proof of purchase for warranty validation.

Related Documents - U260

	XTUGA Professional Wireless Microphone System User Manual User manual for the XTUGA Professional Wireless Microphone System, detailing setup, operation, troubleshooting, and specifications for the UHF wireless microphone receiver and transmitter.
	XTUGA RW2080 Wireless Ear-Monitor System User Instruction Manual This document provides comprehensive user instructions for the XTUGA RW2080 wireless ear-monitor system. It covers product presentation, main features, functions, detailed front and back panel instructions for single and double channel receivers and transmitters, bodypack transmitter and receiver details, usage illustrations, system settings, and technical specifications.
	XTUGA SF-1 Operation Instructions: Wired to Wireless Microphone Converter Learn how to set up and operate the XTUGA SF-1 Wired to Wireless Microphone Converter. This guide covers technical parameters, signal receiver and transmitter functions, matching instructions, and FCC compliance for the SF-1 audio adapter.
	XTUGA SEM200 Wireless In-Ear Monitor System User Manual User manual for the XTUGA SEM200 Wireless In-Ear Monitor System, detailing product introduction, safety tips, transmitter and receiver overviews, main features, system settings, technical specifications, and usage illustrations for stage monitoring and audio broadcasting.
	XTUGA IEM1200 Wireless In-Ear Monitor System User Manual Comprehensive user manual for the XTUGA IEM1200 Wireless In-Ear Monitor System, detailing features, operation, and technical specifications for stage performance and sound broadcast.
	Xtuga SEM200 Wireless In-Ear Monitor System User Manual Comprehensive user manual for the Xtuga SEM200 Wireless In-Ear Monitor System, covering product introduction, safety tips, technical specifications, system settings, and usage instructions.