Alvoxcon UM410M

Alvoxcon Wireless Microphone System User Manual

MODEL: UM410M

This manual provides detailed instructions for the setup, operation, and maintenance of your Alvoxcon Wireless Microphone System. Please read thoroughly before use.

1. Product Overview

1.1. Components

- 2 x Handheld Microphones
- 1 x USB Receiver (Dual-mode Digital/Analog with built-in sound card)
- 1 x USB-C Adapter
- 1 x iPhone Adapter
- 1 x AUX Cable (50cm)
- 1 x USB Charging Cable
- 1 x User Manual

Figure 1.1: Alvoxcon Wireless Microphone System components.

1.2. Key Features

- **Rechargeable Battery:** Both microphones and the receiver feature built-in rechargeable Lithium batteries, providing approximately 7 hours of working time. Easily charged via USB power supply.

- **Crystal Clear Sound & Reliable Wireless Performance:** Equipped with a high-sensitivity professional Dynamic moving-coil capsule for clear audio. UHF digital wireless technology ensures a strong signal and ultra-high fidelity, minimizing interference from Bluetooth or Wi-Fi. Working range up to 60ft.

- **Full Compatibility:** The dual-mode USB receiver is compatible with PC (Windows/Mac), iPhone, and Android phones. Plug and Play functionality requires no extra drivers.

- **Multi-Applications:** Ideal for online teaching, podcasting, live recording, classroom amplification, voice-over projection, YouTube streaming, interviews, and outdoor performances.

- **Easy Setup & Operate:** Cable-free system with 20 selectable frequencies (902-928Mhz, FCC compliant). Automatic frequency pairing simplifies setup, reducing interference and distortion.

2. Setup Guide

2.1. Charging the Microphones and Receiver

Before initial use, ensure both microphones and the USB receiver are fully charged. Use the provided USB charging cable to connect the devices to a standard USB power source (e.g., computer USB port, USB wall adapter, power bank). The low power indicator on the microphone will alert you when charging is needed.

Figure 2.1: Microphone and receiver charging ports and indicators.

2.2. Connecting to a Computer (PC/Mac)

The Alvoxcon system is plug-and-play with computers. Simply insert the USB receiver directly into an available USB port on your PC or Mac. The system will automatically detect and install necessary drivers. Power on the microphones, and they will automatically pair with the receiver.

Figure 2.2: Connecting the receiver to a computer.

Video 2.1: Demonstrates connecting the Alvoxcon microphone system to a computer and iPhone, showcasing sound quality testing and ease of setup.

2.3. Connecting to an iPhone/Android Phone

For mobile devices, use the appropriate adapter (USB-C or iPhone adapter) to connect the USB receiver to your smartphone. Once connected, power on the microphones. The system will automatically pair and be ready for use with your phone's recording or communication applications.

Figure 2.3: Connecting the receiver to a smartphone.

2.4. Connecting to a Speaker (AUX)

To output audio to an external speaker, use the provided 50cm AUX cable. Connect one end of the AUX cable to the 'AUX Out' port on the USB receiver and the other end to the 'AUX In' port on your speaker. This allows for live sound projection without Bluetooth interference.

Figure 2.4: Connecting the receiver to an external speaker.

3. Operating Instructions

3.1. Powering On/Off

- **Microphones:** Locate the power switch on the microphone handle. Slide it to the 'ON' position to power on. The indicator light will illuminate. Slide to 'OFF' to power off.
- **Receiver:** The receiver powers on automatically when plugged into a USB power source. Unplug to power off.

3.2. Automatic Frequency Pairing

The Alvoxcon system is designed for ease of use. Upon powering on both the microphones and the receiver, they will automatically search for and pair with each other on an available frequency within the 902-928Mhz range. No manual frequency selection is typically required.

3.3. Real-time Monitoring

The USB receiver includes an 'AUX Out' port, allowing you to connect headphones for real-time audio monitoring. This is useful for ensuring clear sound capture during recording or live streaming.

3.4. Using Dual Microphones Simultaneously

The system supports simultaneous use of both handheld microphones. Each microphone will operate on a separate channel, allowing two speakers to be active at the same time. This is particularly useful for interviews, presentations, or duets.

Video 3.1: Illustrates the Alvoxcon UM420PRO (similar model) in a meeting setting, demonstrating how two microphones can work simultaneously and transmit to online participants via Zoom, with audio output to a speaker.

4. Maintenance

4.1. Cleaning

Wipe the microphones and receiver with a soft, dry cloth. Do not use liquid cleaners or abrasive materials, as this may damage the device.

4.2. Storage

Store the microphone system in a cool, dry place away from direct sunlight and extreme temperatures. When not in use for extended periods, ensure the batteries are partially charged (around 50%) to prolong battery life.

4.3. Battery Care

To maximize battery lifespan, avoid fully discharging the batteries frequently. Recharge them regularly, even if not completely depleted. If the device will not be used for a long time, charge it every 3-6 months.

5. Troubleshooting

Problem	Possible Cause	Solution
No sound output	Microphone/receiver not powered on; incorrect connection; low battery; volume too low.	Ensure all devices are powered on. Check USB and AUX cable connections. Recharge batteries. Increase volume on connected device/speaker.
Interference/Poor sound quality	Obstructions between mic and receiver; strong Wi-Fi/Bluetooth signals nearby; microphone too far/too close.	Ensure clear line of sight. Move away from other wireless devices. Adjust microphone distance from mouth (e.g., if clipping occurs, move slightly further away). The system auto-pairs to optimal frequencies.

Problem	Possible Cause	Solution
Microphone not pairing	Microphone/receiver not powered on; out of range.	Ensure both devices are powered on. Bring microphone closer to the receiver.

6. Specifications

Feature	Detail
Model Number	UM410M
Microphone Form Factor	Microphone System (Dual Handheld)
Connectivity Technology	USB (Wireless)
Power Source	Battery Powered (2 Lithium Polymer batteries included)
Working Time	Approx. 7 hours
Wireless Frequency Range	902-928 MHz (20 selectable channels)
Working Range	Up to 60ft
Polar Pattern	Unidirectional
Audio Sensitivity	60 dB
Compatible Devices	iPhone, Computer (Laptop, PC, Smartphone)
Material	Acrylonitrile Butadiene Styrene, PCB
Item Weight	0.43 Kilograms (15.1 ounces)
Product Dimensions	8.27 x 5.91 x 2.17 inches

7. Warranty and Support

Alvoxcon products are designed for quality and performance. For any assistance, troubleshooting beyond this manual, or warranty inquiries, please contact the seller directly. Alvoxcon is committed to providing support for their products.