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> MELONARE MX-1 UHF 900MHz XLR Wireless Microphone Adapter User Manual

## MELONARE MX-1

# MELONARE MX-1 UHF 900MHz XLR Wireless Microphone Adapter User Manual

Model: MX-1

## 1. INTRODUCTION

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The MELONARE MX-1 is a plug-on UHF 900MHz XLR wireless microphone adapter system designed to provide stable, cable-free audio transmission for various professional audio setups. This system includes both a transmitter and a receiver, offering enhanced mobility and superior sound clarity for applications such as live performances, band rehearsals, live streaming, and parties. It features a switchable +48V phantom power supply, making it compatible with both dynamic and condenser microphones.



Figure 1.1: The MELONARE MX-1 XLR Wireless Microphone Adapter System, showing both the transmitter and receiver units.

## 2. KEY FEATURES

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- **164ft Wireless Freedom:** Operates on a 900MHz UHF frequency band, avoiding interference from crowded 2.4GHz and 500MHz bands. Offers 10 selectable frequencies and a transmission range of up to 164 feet (50 meters).
- **Superior Sound Clarity:** Features a 24bit/48kHz sampling rate and over 100dB dynamic range, ensuring rich sound details and accurate pickup with less than 0.5% distortion.
- **Switchable +48V Phantom Power:** Provides full support for condenser microphones. Can be turned off for use with dynamic microphones to conserve power.
- **Easy Power Monitoring:** Equipped with a built-in 450mAh rechargeable battery offering up to 5 hours of continuous use. A 4-level LED indicator (100%, 75%, 50%, 25%) provides precise battery life feedback.
- **Stable & Portable Design:** Lightweight design reduces hand fatigue. Flat-edged body prevents rolling and ensures stability on flat surfaces. Reinforced connector provides a secure fit.

# Wireless Performance, Wherever You Go

Enjoy stable, cable-free audio transmission for effortless mobility in any setting.



**164ft**

Wireless Range



UHF 900MHz Band

**10**

Selectable Frequencies

Figure 2.1: Diagram illustrating the wireless performance capabilities, including range and frequency band.

# Precise Sound, Effortless Performance

Ensures faithful sound reproduction with professional-grade clarity.



**24bit/48kHz**

Sampling rate

**>100dB**

Dynamic Range

**60-18000Hz**

Frequency response

**<0.5%**

Distortion

Figure 2.2: Visual representation of the audio quality specifications.

## 3. PACKAGE CONTENTS

Please check the box for the following items:

- 1 x MELONARE MX-1 Transmitter
- 1 x MELONARE MX-1 Receiver
- 1 x 2-in-1 USB Charging Cable
- 1 x User Manual

# Box Content

1×Transmitter 1×Receiver 1×2-in-1 USB Cable 1×User Manual



Figure 3.1: All items included in the product package.

## 4. SETUP INSTRUCTIONS

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### 4.1 Charging the Devices

Before first use, fully charge both the transmitter and receiver using the provided 2-in-1 USB charging cable. Connect the cable to a standard USB power adapter (not included) or a computer USB port.

- The LED indicator will show charging status.
- A full charge provides up to 5 hours of continuous use. Note that using +48V phantom power will reduce battery life.

# Up to 5 Hours of Battery Life

Stay in control with real-time LED indicators for clear power levels



## Real-Time Battery Display



75% - 100%

Green light



50% - 74%

Yellow light



25% - 49%

Orange light



1% - 24%

Red light

Figure 4.1: Battery charging and indicator levels.

## 4.2 Connecting the Transmitter

1. Identify the transmitter unit (often labeled "Transmitter" or with an input icon).
2. Plug the XLR connector of the transmitter directly into the XLR output of your wired microphone. Ensure a secure fit.
3. If using a condenser microphone, locate the +48V phantom power switch on the transmitter and slide it to the "ON" position. For dynamic microphones, ensure this switch is in the "OFF" position to conserve battery.

# Switchable +48V Phantom Power

Easily adjust +48V — perfect for dynamic or condenser mics!



Figure 4.2: Detail of the +48V phantom power switch.

## 4.3 Connecting the Receiver

1. Identify the receiver unit (often labeled "Receiver" or with an output icon).
2. Plug the XLR connector of the receiver into the XLR input of your audio mixer, PA system, or other audio interface.

## 5. OPERATING INSTRUCTIONS

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### 5.1 Powering On/Off

Locate the power switch on both the transmitter and receiver units. Slide the switch to the "ON" position to power on the devices. Slide to "OFF" to power them down.

### 5.2 Pairing and Frequency Selection

The MX-1 system is designed for automatic pairing. Once both the transmitter and receiver are powered on, they will automatically attempt to establish a connection on an available frequency.

- The system offers 10 selectable UHF 900MHz frequencies to avoid interference.
- Refer to the device's display or indicators for current frequency status. If interference occurs, power cycle both units to allow them to select a different clear frequency.

### 5.3 Monitoring Battery Life

The built-in LED indicator provides real-time battery status:

- **Green light:** 75% - 100% battery
- **Yellow light:** 50% - 74% battery
- **Orange light:** 25% - 49% battery
- **Red light:** 1% - 24% battery (recharge soon)

Recharge the devices promptly when the indicator shows low battery to ensure uninterrupted operation.

## 6. MAINTENANCE

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- **Cleaning:** Use a soft, dry cloth to clean the exterior of the devices. Do not use liquid cleaners or solvents.
- **Storage:** Store the devices in a cool, dry place away from direct sunlight and extreme temperatures when not in use.
- **Battery Care:** For optimal battery longevity, avoid fully discharging the battery frequently. If storing for extended periods, charge the battery to about 50% every few months.
- **Handling:** Handle the units with care. The flat-edged design helps prevent rolling, but avoid dropping or subjecting them to strong impacts.

## 7. TROUBLESHOOTING

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Problem	Possible Cause	Solution
No sound output.	<ul style="list-style-type: none"> <li>Devices not powered on.</li> <li>Transmitter/Receiver not paired.</li> <li>Incorrect phantom power setting.</li> <li>Low battery.</li> <li>Loose connections.</li> </ul>	<ul style="list-style-type: none"> <li>Ensure both units are powered on.</li> <li>Power cycle both units to re-establish connection.</li> <li>Verify +48V switch is correct for your microphone type.</li> <li>Recharge devices.</li> <li>Check all XLR connections are secure.</li> </ul>
Interference or static.	<ul style="list-style-type: none"> <li>Other wireless devices on same frequency.</li> <li>Obstacles blocking signal.</li> <li>Exceeding range.</li> </ul>	<ul style="list-style-type: none"> <li>Power cycle units to force frequency change.</li> <li>Ensure clear line of sight between transmitter and receiver.</li> <li>Reduce distance between units.</li> </ul>
Short battery life.	<ul style="list-style-type: none"> <li>+48V phantom power is active.</li> <li>Battery degradation over time.</li> </ul>	<ul style="list-style-type: none"> <li>Turn off +48V phantom power if not using a condenser mic.</li> <li>Ensure full charge before use.</li> </ul>

## 8. SPECIFICATIONS

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Feature	Detail
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Feature	Detail
Brand	MELONARE
Model	MX-1
Color	Black
Material	Acrylonitrile Butadiene Styrene (ABS)
Connector Type	XLR Connector
Wireless Frequency	UHF 900MHz Band
Transmission Range	Up to 164 feet (50 meters)
Selectable Frequencies	10
Sampling Rate	24bit/48kHz
Dynamic Range	>100dB
Frequency Response	60-18000Hz
Distortion	<0.5%
Battery Type	Built-in Rechargeable Lithium-ion
Battery Capacity	450mAh
Battery Life	Up to 5 hours (runtime may decrease with +48V phantom power active)
Phantom Power	Switchable +48V
UPC	810164760494

## 9. USAGE SCENARIOS

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The MELONARE MX-1 is versatile and suitable for a variety of audio applications:

- Live Performances
- Band Rehearsals
- Live Streaming
- Parties and Events
- Studio Recording (for mobility)

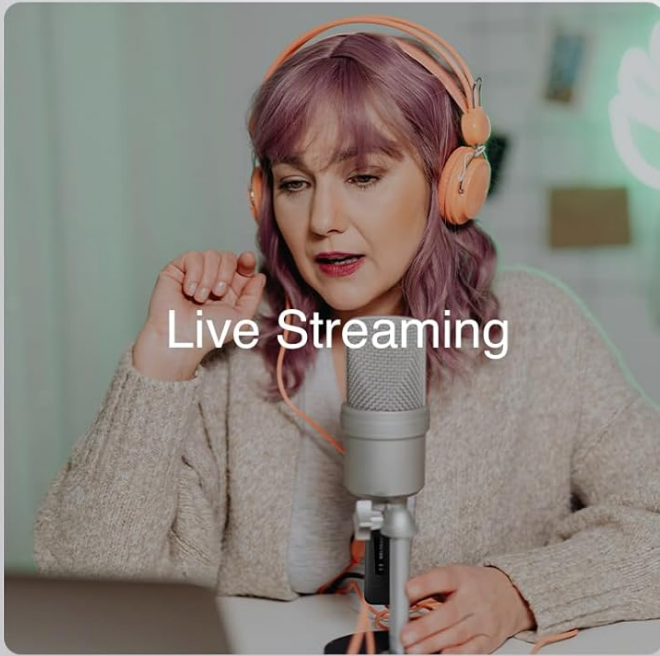
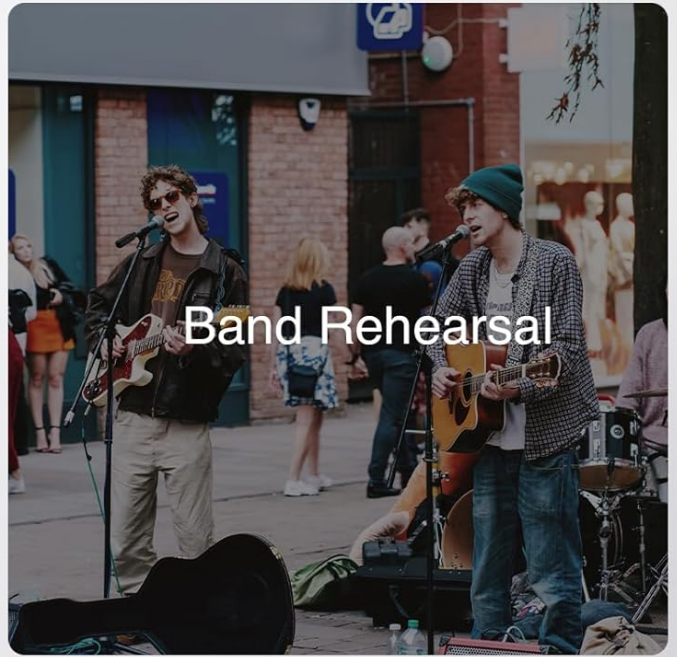
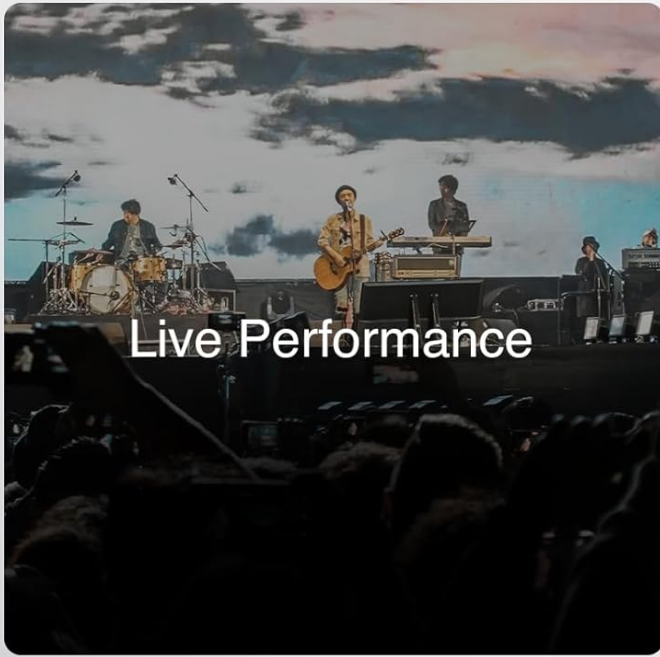


Figure 9.1: Examples of environments where the MX-1 system can be effectively used.

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For support, please visit the official MELONARE website or contact customer service.