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› [Emerson](#) /

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Emerson EAM-9002

Emerson EAM-9002 Dual Handheld Wireless Microphone System User Manual

Model: EAM-9002

1. INTRODUCTION

Thank you for choosing the Emerson EAM-9002 Dual Handheld Wireless Microphone System. This system provides clear audio transmission for various applications, including karaoke, public speaking, and live performances. Please read this manual thoroughly before operation to ensure proper use and to maximize the product's lifespan.



Image 1.1: The Emerson EAM-9002 Dual Handheld Wireless Microphone System, featuring two black wireless microphones and a compact receiver unit.

2. PACKAGE CONTENTS

Verify that all items are present in the package:

- 2 x Wireless Handheld Microphones
- 1 x Wireless FM Receiver
- 1 x 1/4-inch to 1/4-inch Microphone Input Jack Cable
- 2 x 9V Batteries (for microphones)
- 1 x AC Power Adapter (for receiver)
- 1 x Operating Instructions Manual (this document)

3. PRODUCT OVERVIEW

3.1. Components

The Emerson EAM-9002 system consists of two wireless microphones and a receiver unit. Each component is designed for ease of use and reliable performance.



Image 3.1: Overview of the Emerson EAM-9002 system, highlighting the two microphones and the central receiver unit.

3.2. Dimensions and Weight

- **Microphone Dimensions:** Approximately 9.6 inches (height) x 1.25 inches (diameter)
- **Receiver Dimensions:** Approximately 11.8 inches (length) x 4.5 inches (width) x 1.8 inches (height)
- **System Weight:** Approximately 1.54 lbs



Image 3.2: Visual representation of the microphone and receiver dimensions and system weight.

4. SETUP INSTRUCTIONS

4.1. Installing Microphone Batteries

1. Unscrew the bottom part of each microphone to reveal the battery compartment.
2. Insert one 9V battery into each microphone, ensuring correct polarity (+/-).
3. Screw the bottom part back onto the microphone securely.

4.2. Connecting the Receiver

1. Place the receiver unit on a stable surface, away from other electronic devices that may cause interference.

2. Extend the two retractable antennas on the receiver for optimal signal reception.
3. Connect the AC power adapter to the receiver's power input and then to a standard 110V AC power outlet.
4. Using the supplied 1/4-inch to 1/4-inch cable, connect the receiver's audio output jack to the microphone input of your audio device (e.g., guitar amplifier, karaoke machine, PA system, audio mixer).



Image 4.1: Illustration of the easy setup process, showing the receiver connected to an audio system and microphones ready for use.

5. OPERATING INSTRUCTIONS

5.1. Powering On and Off

1. Turn on the receiver by pressing the POWER button. The power indicator light should illuminate.
2. Slide the ON/OFF switch on each microphone to the "ON" position. The microphone's power indicator light will turn on.
3. To power off, slide the microphone switches to "OFF" and then press the POWER button on the receiver.

5.2. Using the Microphones

- Hold the microphone approximately 2-6 inches from your mouth for optimal sound pickup.
- Adjust the volume on your connected audio device (amplifier, karaoke machine, etc.) to achieve the desired sound level.
- The microphones feature a cardioid polar pattern, designed to pick up sound primarily from the front, reducing background noise.



Image 5.1: Individuals using the dynamic wireless microphones for speaking or singing, demonstrating typical usage.

5.3. Range and Performance

The wireless system offers enhanced mobility. For best performance, maintain a clear line of sight between the microphones and the receiver. Obstacles such as walls or large metal objects can reduce the effective range. The system provides up to 3 hours of continuous operation on fresh 9V batteries.

6. MAINTENANCE AND CARE

- Cleaning:** Use a soft, dry cloth to clean the microphones and receiver. Do not use liquid cleaners or solvents.
- Battery Replacement:** Replace microphone batteries when the power indicator light dims or audio quality degrades. Always use fresh 9V alkaline batteries. Remove batteries if the microphones will not be used for an extended period.
- Storage:** Store the system in a cool, dry place, away from direct sunlight and extreme temperatures.
- Handling:** Avoid dropping the microphones or receiver, as this can damage internal components.

7. TROUBLESHOOTING

Problem	Possible Cause	Solution
No sound from microphone.	Microphone not turned on. Dead or incorrectly inserted battery. Receiver not powered on. Receiver not connected to audio device. Audio device volume too low.	Slide microphone switch to "ON". Replace 9V battery, ensuring correct polarity. Press receiver POWER button. Ensure 1/4-inch cable is securely connected. Increase volume on audio device.
Poor sound quality or static.	Low microphone battery. Interference from other electronic devices. Microphone too far from receiver. Antennas not fully extended.	Replace 9V battery. Move receiver away from other electronics. Reduce distance between microphone and receiver. Fully extend receiver antennas.

Problem	Possible Cause	Solution
Microphone cuts out intermittently.	Weak microphone battery. Obstacles blocking signal. Exceeding operational range.	Replace 9V battery. Ensure clear line of sight to receiver. Stay within recommended operating range.

8. SPECIFICATIONS

Feature	Detail
Model	EAM-9002
Microphone Type	Dynamic, Wireless Handheld
Polar Pattern	Cardioid
Number of Channels	2
Frequency Range	50-18,000 Hz
Signal-to-Noise Ratio	80 dB
Power Source (Receiver)	AC 110V (via included adapter)
Power Source (Microphone)	1 x 9V battery per microphone
Battery Life (Microphone)	Up to 3 hours (approximate)
Connectivity	Wireless (FM), Wired (1/4-inch output)
Material	Plastic
Compatible Devices	Audio Mixer, Karaoke Machine, PA System, Personal Computer
Product Dimensions (Receiver)	11.8 x 4.5 x 1.8 inches (L x W x H)
Product Dimensions (Microphone)	9.6 inches (Height) x 1.25 inches (Diameter)
Item Weight (System)	Approximately 1.54 lbs

9. WARRANTY AND SUPPORT

For warranty information and technical support, please refer to the documentation provided with your purchase or visit the official Emerson website. Keep your proof of purchase for warranty claims.

Manufacturer: Naxa

Brand: Emerson

Contact: For further assistance, please contact Emerson customer service through their official channels.

