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Sennheiser MD 435

Sennheiser MD 435 Vocal Dynamic Microphone Instruction Manual

1. INTRODUCTION

This manual provides essential information for the proper setup, operation, and maintenance of your Sennheiser MD 435 Vocal Dynamic Microphone. Designed for nuanced resolution and transparency, the MD 435 delivers detailed sound, even in challenging live environments. Its robust construction ensures reliable performance.

2. PRODUCT OVERVIEW

The Sennheiser MD 435 is a dynamic vocal microphone engineered for high-quality audio capture. It features a spring-mounted capsule, a rugged design, and a hum compensation coil to minimize external interference. Its cardioid polar pattern provides excellent feedback resistance and focused sound pickup.





Figure 1: Front view of the Sennheiser MD 435 Vocal Dynamic Microphone.

Key Features:

- High Rejection Dynamic vocal microphone
- Lightweight, rapidly responding aluminum-copper voice coil
- Nuanced reproduction of high frequencies
- Assertive and resistant to feedback
- Directional characteristic: cardioid

3. PACKAGE CONTENTS

Ensure all items are present upon unboxing:

- Sennheiser MD 435 Microphone

4. SETUP

The MD 435 microphone is designed for straightforward integration into your audio system.

4.1 Connecting the Microphone

1. Connect a standard XLR cable (not included) to the XLR connector at the base of the microphone.
2. Connect the other end of the XLR cable to an available microphone input on your mixer, audio interface, or PA system.
3. Ensure the input channel on your audio device is set to receive a dynamic microphone signal. Phantom power is not required for dynamic microphones, but the MD 435 is compatible with systems that provide it.



Figure 2: Sennheiser MD 435 microphones connected to an audio console.

5. OPERATING INSTRUCTIONS

To achieve optimal sound quality and performance from your MD 435 microphone, follow these guidelines:

5.1 Microphone Placement

- **Vocal Performance:** Hold the microphone approximately 1 to 6 inches (2.5 to 15 cm) from your mouth. Experiment with distance to find the best balance of vocal presence and room ambience.
- **Cardioid Pattern:** The cardioid polar pattern is most sensitive to sound coming from the front and rejects sound from the sides and rear. Point the microphone directly at the sound source (e.g., vocalist's mouth) and position monitors or other sound sources outside of the microphone's pickup pattern to minimize feedback.
- **Loud Environments:** The MD 435 is designed to perform well in loud live settings due to its high rejection capabilities. Maintain proper microphone technique to maximize isolation of your desired sound source.



Figure 3: Proper microphone placement on an audio console.

6. MAINTENANCE

Proper care will extend the life and performance of your microphone.

- **Cleaning:** Use a soft, dry cloth to clean the microphone body. For the grille, a soft brush can be used to gently remove debris. Do not use liquid cleaners directly on the microphone.
- **Storage:** Store the microphone in a dry, dust-free environment when not in use.
- **Handling:** Avoid dropping the microphone or subjecting it to harsh impacts, as this can damage the internal components.

7. TROUBLESHOOTING

If you encounter issues with your MD 435 microphone, consult the following common solutions:

- **No Sound:**

- Check all cable connections (microphone to XLR, XLR to audio device).
- Ensure the input channel on your audio device is selected and its gain/volume is turned up.
- Test with a different XLR cable or audio input if possible.

- **Poor Sound Quality / Distortion:**

- Adjust the microphone's distance from the sound source. Too close can cause proximity effect (excessive bass), too far can lead to weak signal.
- Check the gain settings on your audio device. Excessive gain can cause clipping and distortion.
- Ensure the microphone grille is clean and free of debris.

- **Feedback (Squealing Sound):**

- Reposition the microphone further away from loudspeakers or monitors.
- Point the microphone directly at the sound source and away from monitors.
- Reduce the gain on the microphone's input channel.

8. SPECIFICATIONS

Specification	Value
Model Number	508827
Item Weight	527 Grams (1.16 pounds)
Microphone Form Factor	Handheld
Dimensions (L x W x H)	10.24 x 4.72 x 3.15 inches
Power Source	Corded Electric
Material	Aluminum
Signal-to-Noise Ratio	80 dB
Number of Channels	1
Frequency Response	20000 KHz
Manufacturer	Sennheiser
UPC	615104340527
Color	Black
Recommended Uses	Singing
Connectivity Technology	XLR
Connector Type	XLR
Special Feature	Lightweight
Compatible Devices	PA System

Polar Pattern

Unidirectional (Cardioid)

9. WARRANTY AND SUPPORT

For warranty information, technical support, or service inquiries, please refer to the official Sennheiser website or contact their customer service directly. Keep your proof of purchase for warranty claims.

Manufacturer: Sennheiser

Website: www.sennheiser.com