

Sennheiser 009422

Sennheiser e945 Supercardioid Dynamic Handheld Vocal Microphone Instruction Manual

Model: 009422 | Brand: Sennheiser

1. INTRODUCTION

This manual provides comprehensive instructions for the setup, operation, maintenance, and troubleshooting of your Sennheiser e945 Supercardioid Dynamic Handheld Vocal Microphone. Please read this manual carefully before using the product to ensure optimal performance and longevity.

The Sennheiser e945 is a professional-grade dynamic handheld microphone engineered for lead vocals, delivering a rich and smooth audio response suitable for both live stage performances and studio recordings. Its robust metal construction and shock-mounted capsule minimize handling noise and impact sensitivity. The supercardioid polar pattern effectively rejects off-axis sound and feedback, while the neodymium magnet with a hum-compensating coil ensures reliable performance by reducing electrical interference.

This product bundle also includes a durable tripod microphone stand and a 20-foot XLR cable, providing a complete solution for your vocal recording and performance needs.

2. PACKAGE CONTENTS

Please verify that all the following components are included in your package:

- Sennheiser e945 Supercardioid Dynamic Handheld Vocal Microphone
- Protective Pouch
- MZQ 800 Microphone Clamp
- Tripod Microphone Stand
- Microphone Stand Cable Clip
- 20-foot XLR-XLR Cable
- Warranty Card



Image 2.1: The Sennheiser e945 Supercardioid Dynamic Handheld Vocal Microphone, front view.



Image 2.2: The included tripod microphone stand with collapsible legs.



Image 2.3: The 20-foot XLR-XLR cable for connecting the microphone.

3. SETUP GUIDE

Follow these steps to set up your Sennheiser e945 microphone system:

1. Assemble the Microphone Stand:

- Unfold the tripod legs of the microphone stand until they are fully extended and stable.
- Adjust the height of the stand using the ergonomic twist-action clutch. Ensure the stand is at a comfortable height for your use (e.g., 36.2 to 63 inches).
- Securely tighten the clutch to prevent the stand from slipping.

2. Attach the Microphone Clamp:

- Screw the MZQ 800 Microphone Clamp onto the threaded top of the microphone stand. Ensure it is firmly attached. *Note:* Some microphone stands may have a removable adapter on the thread; ensure the correct thread size is exposed for the clamp.

3. Mount the Microphone:

- Gently insert the Sennheiser e945 microphone into the MZQ 800 Microphone Clamp. The clamp is designed to securely hold the microphone.

4. Connect the XLR Cable:

- Connect one end of the 20-foot XLR-XLR cable to the XLR output port at the base of the Sennheiser e945 microphone. Ensure the connection clicks into place.
- Connect the other end of the XLR cable to your audio mixer, audio interface, or amplifier's microphone input.

5. Cable Management:

- Use the included cable clip to secure the XLR cable along the microphone stand, preventing it from dangling and reducing trip hazards.



Image 3.1: The XLR connector at the base of the Sennheiser e945 microphone.

4. OPERATING INSTRUCTIONS

Once your microphone system is set up, follow these guidelines for optimal operation:

• Microphone Placement:

Position the microphone approximately 2-6 inches from the sound source (e.g., vocalist's mouth). Experiment with distance to achieve the desired tone and to control proximity effect (increased bass response when close to the microphone).

• Gain Staging:

Adjust the gain (input level) on your mixer or audio interface. Start with the gain low and gradually increase it until you achieve a strong signal without clipping (distortion). The e945 is a dynamic microphone and does not require phantom power.

• Supercardioid Polar Pattern:

The e945 features a supercardioid polar pattern, which is highly effective at rejecting sound from the sides and rear. This is beneficial for minimizing feedback on stage and isolating the desired sound source in noisy environments. Ensure the microphone is pointed directly at the sound source.

• Minimizing Handling Noise:

While the e945 has a shock-mounted capsule to reduce handling noise, holding the microphone firmly and avoiding excessive movement will further minimize unwanted sounds.

• Hum Compensation:

The integrated hum-compensating coil helps reduce electrical interference. If you experience hum, ensure all cables are properly shielded and connected, and try to keep the microphone away from strong electromagnetic fields.

5. CARE AND MAINTENANCE

Proper care will extend the life and performance of your Sennheiser e945 microphone:

- **Cleaning:**

Wipe the microphone body with a soft, dry cloth. For the microphone grille, use a soft brush to remove any debris. Do not use liquid cleaners directly on the microphone, especially near the grille or connector.

- **Storage:**

When not in use, store the microphone in its protective pouch to shield it from dust, moisture, and physical damage. Store in a cool, dry place.

- **Cable Care:**

Avoid kinking or sharply bending the XLR cable. Coil the cable loosely when storing to prevent internal wire damage.

- **Environmental Conditions:**

Avoid exposing the microphone to extreme temperatures, high humidity, or direct sunlight for prolonged periods.

6. TROUBLESHOOTING

If you encounter issues with your Sennheiser e945, refer to the following common problems and solutions:

Problem	Possible Cause	Solution
No Sound Output	<ul style="list-style-type: none">• XLR cable not connected properly.• Mixer/interface input gain too low or muted.• Faulty XLR cable.• Incorrect input selected on mixer/interface.	<ul style="list-style-type: none">• Ensure both ends of the XLR cable are securely connected.• Increase the input gain and check mute settings on your audio device.• Test with a different XLR cable.• Verify the correct input channel is selected and active.
Low Volume / Weak Signal	<ul style="list-style-type: none">• Input gain set too low.• Microphone too far from sound source.	<ul style="list-style-type: none">• Increase the input gain on your audio device.• Move the microphone closer to the sound source.
Feedback (High-pitched squeal)	<ul style="list-style-type: none">• Microphone too close to speakers.• Microphone pointed at speakers.• Excessive gain.	<ul style="list-style-type: none">• Reposition microphone further from speakers.• Ensure microphone is pointed away from speakers, utilizing its supercardioid pattern.• Reduce input gain or master volume.
Hum or Buzzing Noise	<ul style="list-style-type: none">• Electrical interference.• Ground loop issue.• Damaged cable.	<ul style="list-style-type: none">• Ensure all equipment is properly grounded.• Try plugging equipment into different outlets on the same circuit.• Test with a different XLR cable.• Keep microphone and cables away from power cables or transformers.

7. TECHNICAL SPECIFICATIONS

Feature	Detail
Brand	Sennheiser
Model Number	009422
Microphone Form Factor	Microphone System
Polar Pattern	Supercardioid (Unidirectional)
Connectivity Technology	XLR
Connector Type	XLR
Frequency Response	40 Hz
Audio Sensitivity	54 dB
Signal-to-Noise Ratio	73 dB
Material	Alloy Steel, Metal
Color	Black
Item Weight (Microphone)	365 Grams (12.9 ounces)
Product Dimensions (L x W x H)	1.85 x 1.85 x 7.32 inches
Recommended Uses	Singing, Speech
Compatible Devices	Smartphone, Laptop, Personal Computer, Tablet, Camera, Speaker, Amplifier, Gaming Console (via appropriate adapters/interfaces)
UPC	745150750572

8. WARRANTY INFORMATION

The Sennheiser e945 Supercardioid Dynamic Handheld Vocal Microphone comes with a Limited 1-Year Warranty. The Tripod Microphone Stand also includes a Limited 1-Year Warranty, and the 20' XLR-XLR Cable comes with a 90-Day Warranty.

Please refer to the included warranty card for detailed terms and conditions, including coverage, duration, and how to make a claim. Retain your proof of purchase for warranty validation.

9. CUSTOMER SUPPORT

For technical assistance, product inquiries, or warranty claims, please contact Sennheiser customer support. Visit the official Sennheiser website for the most up-to-date contact information, including phone numbers, email support, and online resources.

You can also visit the [Sennheiser Store on Amazon](#) for additional product information and resources.



