

## Sennheiser e865

# Sennheiser e865 Lead Vocal Condenser Microphone User Manual

Model: e865 | Brand: Sennheiser

## 1. INTRODUCTION

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The Sennheiser e865 is a high-quality condenser microphone designed for lead vocal performances. It is engineered to provide clear, precise sound reproduction, particularly in the high-frequency range, making vocals stand out in live stage environments. Its robust construction ensures durability for demanding use.

### Key Features

- **Super Cardioid Pickup Pattern:** Provides excellent isolation from other on-stage sounds, reducing feedback.
- **Superb Transient Response:** Captures the nuances of vocal performances with accuracy.
- **Steel Inlet Basket:** Offers enhanced durability and protection for the microphone capsule.
- **High Sound Pressure Level (SPL) Handling:** Capable of distortion-free reproduction even at very high sound pressure levels.
- **Wide Frequency Response:** 40-20,000 Hz for comprehensive vocal capture.
- **Impedance:** 200 Ohms.

## 2. PACKAGE CONTENTS

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Verify that all items are present in the package:

- 1 x Sennheiser e865 Microphone
- 1 x Microphone Clip
- 1 x Pouch

## 3. SETUP

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Follow these steps to set up your Sennheiser e865 microphone:

1. **Attach Microphone Clip:** Secure the provided microphone clip to a standard microphone stand.
2. **Mount Microphone:** Carefully insert the Sennheiser e865 microphone into the microphone clip.
3. **Connect XLR Cable:** Connect a balanced XLR cable to the microphone's output connector. Ensure a secure connection.
4. **Connect to Audio Device:** Connect the other end of the XLR cable to an audio mixer, audio interface, or preamplifier that provides 48V phantom power.
5. **Activate Phantom Power:** The e865 is a condenser microphone and requires 48V phantom power to operate. Activate phantom power on your connected audio device. Refer to your audio device's manual for instructions on enabling phantom power.



A detailed view of the Sennheiser e865 microphone, showcasing its charcoal finish and robust grille. This image illustrates the microphone's physical design.

## 4. OPERATING INSTRUCTIONS

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To achieve optimal performance from your Sennheiser e865:

- **Microphone Positioning:** Position the microphone directly in front of the sound source (e.g., vocalist's mouth) for best results. The super-cardioid pattern is most sensitive directly in front and rejects sound from the sides and rear.
- **Proximity Effect:** The e865 exhibits a minimal proximity effect. This means the bass response remains consistent regardless of how close the microphone is to the sound source, allowing for consistent vocal tone.
- **Gain Staging:** Adjust the gain on your mixer or audio interface to an appropriate level. Avoid setting the gain too high, which can lead to distortion, or too low, which can result in a weak signal and increased noise.
- **Handling Noise:** While the e865 is designed to minimize handling noise, using the provided microphone clip and stand is recommended for stationary use to prevent unwanted sounds.

## 5. MAINTENANCE

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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 dust or debris. Do not use liquid cleaners directly on the microphone.
- **Storage:** When not in use, store the microphone in its provided pouch to protect it from dust, moisture, and physical damage. Avoid storing in extreme temperatures or high humidity.
- **Avoid Drops:** The microphone is a precision instrument. Avoid dropping it, as this can damage the internal components.

## 6. TROUBLESHOOTING

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If you encounter issues with your Sennheiser e865, consider the following:

- **No Sound Output:**
  - Ensure 48V phantom power is activated on your audio device.
  - Check all XLR cable connections for security and integrity. Try a different cable if possible.
  - Verify that the input channel on your mixer/interface is not muted and gain is set appropriately.
- **Low or Distorted Sound:**
  - Adjust the gain level on your audio device. Too low gain results in weak signal; too high gain causes distortion.
  - Ensure the microphone is positioned correctly relative to the sound source.
  - Check for any damage to the microphone grille or capsule.
- **Feedback Issues:**
  - Reposition the microphone or speakers to prevent sound from the speakers entering the microphone.
  - Utilize the super-cardioid pattern by ensuring monitors are placed off-axis (not directly behind the microphone).
  - Reduce overall volume or specific frequencies causing feedback on your mixer.

## 7. SPECIFICATIONS

Specification	Value
Polar Pattern	Super Cardioid
Frequency Response	40-20,000 Hz
Impedance	200 Ohm
Signal-to-Noise Ratio	106 dB
Connector Type	XLR
Microphone Form Factor	Handheld
Item Weight	11 Ounces (approx. 312 grams)
Product Dimensions (L x W x H)	1.85 x 1.85 x 7.6 inches
Material	Alloy Steel
Power Source	Corded Electric (requires 48V phantom power)
Model Number	004846
UPC	615104048461

## 8. WARRANTY AND SUPPORT

Sennheiser products are designed for reliability and performance. Specific warranty terms and conditions are typically provided with your product at the time of purchase. Please refer to the documentation included in your product packaging for detailed warranty information.

For technical support, service, or further inquiries, please visit the official Sennheiser website or contact their customer service department. Ensure you have your product model and serial number available when seeking support.