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> [CAD Audio E100SX Large-Diaphragm Supercardioid Condenser Microphone User Manual](#)

CAD Audio E100SX

CAD Audio E100SX Large-Diaphragm Supercardioid Condenser Microphone User Manual

This manual provides detailed instructions for the setup, operation, maintenance, and troubleshooting of your CAD Audio E100SX microphone. Please read thoroughly before use.

1. INTRODUCTION

The CAD Audio E100SX is a large-diaphragm supercardioid condenser microphone designed for capturing vocals and instruments with clarity and detail. It features a supercardioid polar pattern for excellent off-axis rejection, a switchable 100 Hz hi-pass filter, and a 10 dB pad for versatile control in various recording environments. The microphone is housed in a robust design with an integrated shock mount to minimize handling noise and vibrations.



SPECS

POLAR PATTERN	Supercardioid	HIGH-PASS FILTER	100Hz, 6dB/oct
MAX SPL	136dB (with pad engaged)	POWER REQUIREMENTS	48V Phantom Power (1.6mA)
FREQUENCY RANGE	20Hz – 18kHz		
SENSITIVITY	32dBV (25mV) @ 1Pa		
IMPEDANCE	150 Ohms		

The graphic also features two images of the CAD Audio E100SX microphone. The larger image shows the microphone from a front-three-quarter view, highlighting the control panel with the Hi-PASS and PAD switches. The smaller image shows the microphone from a rear-three-quarter view, showing the shock mount and the back of the microphone body.

Image 1.1: The CAD Audio E100SX microphone, showcasing its features for studio versatility, including the 100Hz Hi-Pass Filter, High Sensitivity, Low Frequency Response, and Versatile Applications.

2. WHAT'S IN THE BOX

Upon unpacking your CAD Audio E100SX, please ensure all components are present and in good condition:

- CAD Audio E100SX Large-Diaphragm Supercardioid Condenser Microphone with integrated shock mount

3. SETUP

Follow these steps to set up your E100SX microphone:

1. **Mounting:** Secure the integrated shock mount onto a standard microphone stand. Ensure the stand is stable and capable of supporting the microphone's weight.
2. **Connection:** Connect a balanced XLR cable (not included) to the XLR output connector located at the base of the microphone. Connect the other end of the XLR cable to your audio interface, mixer, or preamplifier.
3. **Phantom Power:** The E100SX is a condenser microphone and requires 48V phantom power to operate. Activate the 48V phantom power on your audio interface, mixer, or preamplifier. The microphone will not function without proper phantom power.
4. **Positioning:** Position the microphone appropriately for your recording source. The supercardioid pattern is most sensitive directly in front of the microphone, with significant rejection from the sides and rear.



Image 3.1: Bottom view of the CAD Audio E100SX, illustrating the XLR output connector for audio signal transmission.

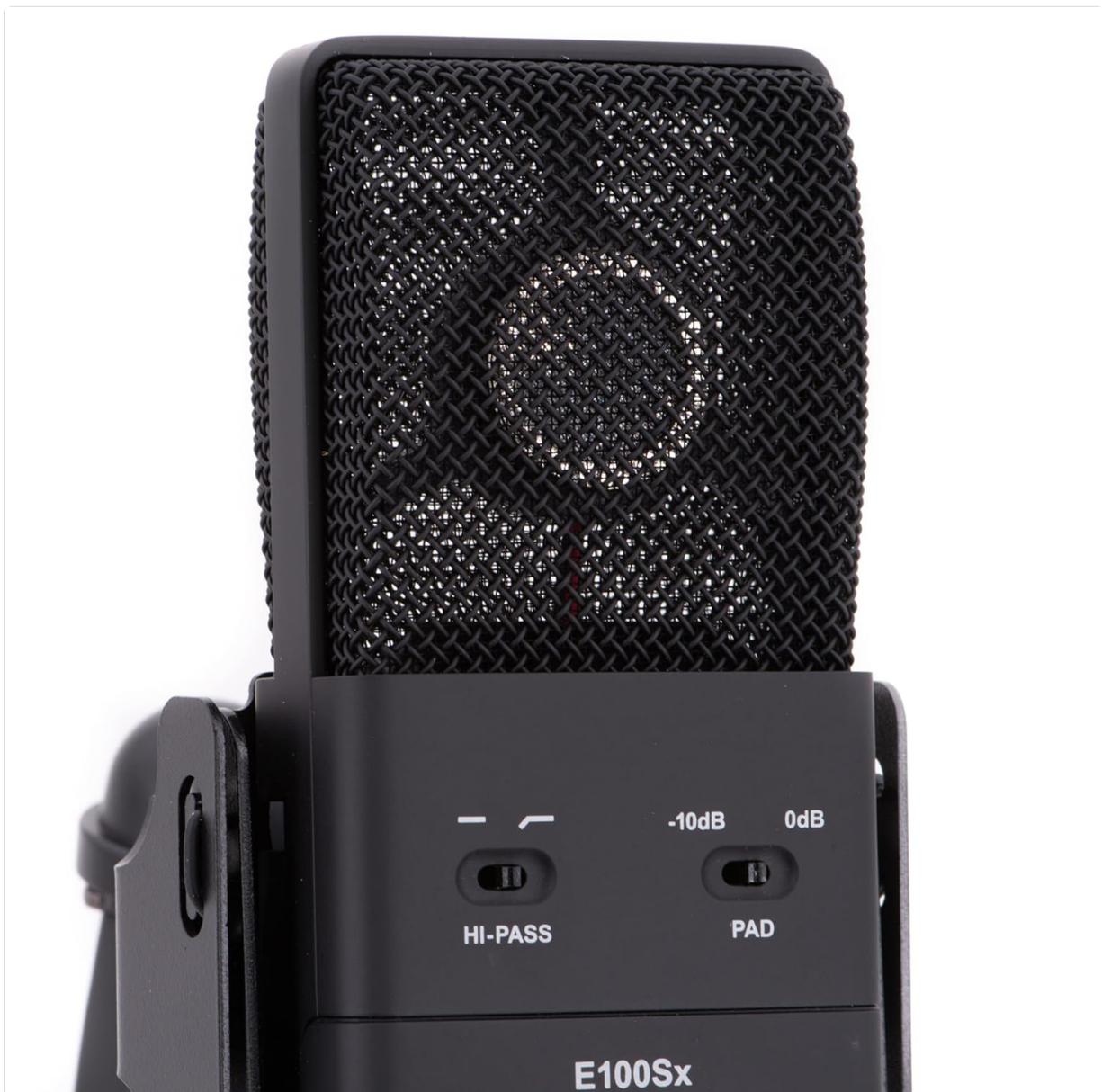


Image 3.2: Front view of the CAD Audio E100SX microphone, showing its grille and integrated shock mount for stable positioning.

4. OPERATING INSTRUCTIONS

The E100SX features two important switches for sound control:

- **Hi-Pass Filter (100 Hz):** This switch activates a low-cut filter at 100 Hz. Engage this filter to reduce unwanted low-frequency rumble, stage noise, or proximity effect when close-miking. This helps to clean up the low end of your recordings.
- **Pad (10 dB):** The 10 dB pad attenuates the input signal by 10 decibels. Engage this switch when recording very loud sound sources (e.g., drums, loud guitar amplifiers) to prevent overloading the microphone's capsule or your preamplifier's input.

Polar Pattern: The E100SX utilizes a supercardioid polar pattern. This pattern offers a tight pickup area directly in front of the microphone, providing excellent isolation from sounds originating from the sides and rear. This is beneficial for minimizing bleed from other instruments in a live setting or untreated room, and for focusing on a single sound source.



Image 4.1: Close-up view of the CAD Audio E100SX, showing the Hi-Pass filter and 10 dB Pad switches for audio control.

5. MAINTENANCE

Proper maintenance ensures the longevity and optimal performance of your E100SX microphone:

- **Cleaning:** Use a soft, dry cloth to wipe the microphone body. Avoid using liquid cleaners, solvents, or abrasive materials, as these can damage the finish or internal components. Do not attempt to clean the microphone grille with liquids.
- **Storage:** When not in use, store the microphone in a protective case or pouch to shield it from dust, moisture, and physical impact. Avoid exposing the microphone to extreme temperatures or high humidity.
- **Handling:** Always handle the microphone with care. Avoid dropping it or subjecting it to strong vibrations, which can affect the sensitive capsule.

6. TROUBLESHOOTING

If you encounter issues with your E100SX microphone, refer to the following common problems and solutions:

- **No Sound Output:**
 - Ensure 48V phantom power is activated on your audio device.
 - Check all XLR cable connections for proper seating and integrity. Try a different XLR cable if available.
 - Verify that the input gain on your audio interface or mixer is turned up.
- **Low Volume or Weak Signal:**
 - Confirm that the 10 dB pad switch is not engaged unless necessary for a very loud source.
 - Increase the input gain on your audio interface or mixer.
 - Ensure the microphone is positioned correctly towards the sound source.

- **Distorted Sound:**

- If the sound source is very loud, engage the 10 dB pad switch.
- Reduce the input gain on your audio interface or mixer.
- Ensure the microphone is not positioned too close to an extremely loud source.

- **Excessive Low-Frequency Noise/Rumble:**

- Engage the 100 Hz hi-pass filter switch to reduce unwanted low-end frequencies.
- Ensure the microphone stand is stable and isolated from floor vibrations.

7. SPECIFICATIONS

Detailed technical specifications for the CAD Audio E100SX microphone:



Every Detail, Captured

LEGENDARY SOUND
PRECISION-ENGINEERED PERFORMANCE

NICKEL-PLATED 1" CAPSULE
Delivers accurate phasing on instruments, and a full rich vocal tone

APPLICATIONS
Studio Vocals , Percussion, Coustic Instrument, Voiceover, Home Recording, Audio For Video And More

Image 7.1: The CAD Audio E100SX microphone with a visual representation of its key specifications.

Specification	Value
Polar Pattern	Supercardioid
Operating Principle	Condenser
Frequency Response	20 Hz – 18 kHz
Sensitivity	32 dBV (25mV) @ 1 Pa
Impedance	150 Ohms
Max SPL	136 dB (with pad engaged)
Hi-Pass Filter	100 Hz, 6 dB/octave
Pad	10 dB

Power Requirements	48V Phantom Power (1.6mA)
Self Noise	9.5 dBA
Signal-to-Noise Ratio	32 dB
Material	Nickel plated
Item Weight	1.41 lbs (0.64 kg)
Product Dimensions (L x W x H)	7.28 x 5.12 x 4.72 inches
UPC	631922109351

8. WARRANTY INFORMATION

CAD Audio products are designed for reliability and performance. For specific warranty terms and conditions applicable to your E100SX microphone, please refer to the warranty card included with your purchase or visit the official CAD Audio website. Keep your proof of purchase for any warranty claims.

9. SUPPORT

For further assistance, technical support, or inquiries regarding your CAD Audio E100SX microphone, please contact CAD Audio customer service or visit their official website:

- **Website:** www.cadaudio.com
- Refer to the contact section on the website for phone numbers or email support.