

## Vault EM-200N

# Vault EM-200N USB Condenser Podcast Microphone User Manual

Model: EM-200N

## 1. INTRODUCTION

This manual provides instructions for the proper use and care of your Vault EM-200N USB Condenser Podcast Microphone. The EM-200N is designed for various audio applications including podcasting, gaming, conference calls, recording, singing, and dubbing. It features a plug-and-play USB connection, adjustable gain, a 3.5mm headphone output for real-time monitoring, and an echo effect.

### Package Contents

- Vault EM-200N USB Condenser Microphone
- USB Cable
- Desktop Stand
- Foam Windscreen

## 2. SETUP

### 2.1 Connecting the Microphone

The Vault EM-200N microphone is a plug-and-play device, requiring no additional driver installation for most operating systems.

1. Attach the microphone to the included desktop stand or a compatible boom arm/mic stand.
2. Connect the provided USB cable to the USB port on the microphone.
3. Connect the other end of the USB cable to an available USB port on your PC or Mac.
4. Your operating system should automatically detect and install the necessary drivers.
5. Select the "Vault EM-200N" as your input device in your computer's sound settings and your preferred recording software.



Image: The Vault EM-200N microphone mounted on its desktop stand, ready for connection.

## 2.2 Attaching the Foam Windscreen

For optimal audio quality and to reduce plosive sounds and environmental noise, attach the included foam windscreen over the microphone's grille.



Image: The Vault EM-200N microphone shown with and without the foam windscreen, illustrating its application.

## 3. OPERATING INSTRUCTIONS

---

### 3.1 Microphone Controls

The EM-200N features several onboard controls for convenient audio management.





Image: Front view of the Vault EM-200N microphone, highlighting the Mute button, Echo knob, Volume knob, and 3.5mm

headphone jack.

- **Mute Button:** Press to instantly mute or unmute the microphone.
- **Echo Knob:** Rotate this knob to adjust the amount of echo effect applied to your voice. Turn clockwise to increase echo, counter-clockwise to decrease.
- **Volume Knob:** This controls the headphone output volume. Rotate clockwise to increase the monitoring volume in your headphones, counter-clockwise to decrease.
- **3.5mm Headphone Output:** Connect your headphones here for real-time, zero-latency monitoring of your audio.

### 3.2 Real-time Monitoring

The built-in 3.5mm headphone output allows for direct, latency-free monitoring of your voice. This feature enables you to hear exactly what the microphone is capturing, facilitating precise level adjustments and performance monitoring. Adjust the headphone volume using the dedicated knob on the microphone.

### 3.3 Cardioid Polar Pattern

The EM-200N utilizes a cardioid polar pattern. This design primarily picks up sound from the front of the microphone, while significantly reducing sound capture from the sides and rear. This helps to isolate the desired sound source, minimize background noise, and achieve clearer recordings. Position the microphone with the front (where the controls are located) facing the sound source.

#### Cardioid Polar Pattern Design

EM-200N ensures high sensitivity along with a (unidirectional) cardioid polar pattern which reduces unwanted sounds from the sides and rear, improving isolation of the recording source. This allows you to control a dedicated area around the microphone and achieve clean captures along with high quality voice recordings.

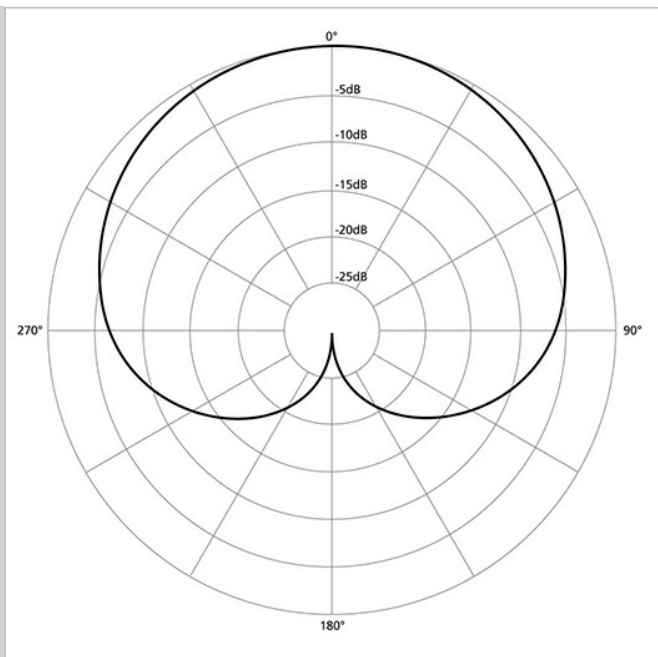


Image: A graphical representation of a cardioid polar pattern, indicating the microphone's directional sound pickup.

## 4. MAINTENANCE

To ensure the longevity and optimal performance of your Vault EM-200N microphone, follow these maintenance guidelines:

- **Cleaning:** Use a soft, dry cloth to wipe the microphone's exterior. Avoid using liquid cleaners, solvents, or abrasive materials, as these can damage the finish or internal components.
- **Storage:** When not in use, store the microphone in a clean, dry place, away from extreme temperatures, humidity, and direct sunlight.
- **Handling:** Handle the microphone with care. Avoid dropping it or subjecting it to strong impacts, which can

affect its internal components and sound quality.

- **Cable Care:** Do not bend or crimp the USB cable excessively. Store it neatly to prevent damage.

## 5. TROUBLESHOOTING

If you encounter issues with your Vault EM-200N microphone, refer to the following common troubleshooting steps:

- **No Sound Output:**
  - Ensure the USB cable is securely connected to both the microphone and your computer.
  - Verify that the Vault EM-200N is selected as the input device in your computer's sound settings and your recording software.
  - Check that the microphone is not muted (Mute button).
  - Increase the volume on your computer and within your recording software.
- **Low Volume:**
  - Adjust the input gain settings in your computer's sound preferences or recording software.
  - Ensure you are speaking directly into the front of the microphone (where the controls are).
- **Distorted Sound:**
  - Reduce the input gain settings in your computer's sound preferences or recording software.
  - Ensure you are not speaking too close to the microphone.
- **Echo Effect Not Working:**
  - Rotate the Echo knob clockwise to increase the effect.
- **Headphone Monitoring Issues:**
  - Ensure headphones are properly plugged into the 3.5mm jack.
  - Adjust the Volume knob on the microphone.
  - Check headphone connections and functionality with another device.

If these steps do not resolve the issue, please refer to the manufacturer's support resources.

## 6. SPECIFICATIONS

Feature	Detail
Microphone Type	Ø16 Electret Capacitor
Polar Pattern	Cardioid (Unidirectional)
Frequency Response	20 Hz - 20,000 Hz
Sensitivity	-47 dBV / Pa (12.6 mV)
Maximum SPL	108 dB (THD <1% at 1kHz)
Power Supply	USB power supply (5V DC)
Bit Depth	16 bit
Sampling Frequency	48 kHz
Headphone Output Power	150mW (at 1 kHz, 1% T.H.D., 16Ω)

Feature	Detail
Headphone Output Interface	Ø3.5mm stereo headphone jack
Total Harmonic Distortion	<0.5% (at 1kHz)
Multi-System Compatibility	Mac + Windows
Connectivity	USB Plug and Play
Special Features	Zero Latency Headphone Monitor, Onboard Echo Effect, Stand, Volume Control
Recommended Uses	Gaming, Podcasting, Conference Calls, Recording, Dubbing, Singing, Video Conference
Item Weight	1.54 pounds
Dimensions	8.03 x 7.95 x 3.66 inches (Package)
Model Name	EM-200N
UPC	840262209656

## 7. WARRANTY AND SUPPORT

For detailed warranty information and technical support, please refer to the documentation included with your product or visit the official Vault website. Keep your purchase receipt for warranty claims.