

NearStream AM10B

NearStream AM10B Shotgun Microphone User Manual

Model: AM10B
Brand: NearStream

1. INTRODUCTION

Thank you for choosing the NearStream AM10B Shotgun Microphone. This professional-grade microphone is designed to deliver crystal-clear audio for various applications, including camera recording, PC use, podcasting, and video conferencing. Featuring an 8-microphone array with intelligent noise cancellation, three selectable polar patterns, and a long-lasting battery, the AM10B offers versatility and high-quality sound capture. Please read this manual thoroughly to ensure proper setup and optimal performance of your device.

2. WHAT'S IN THE BOX

Upon unpacking your NearStream AM10B, please verify that all the following components are included:

- AM10B Microphone (x1)
- Microphone Cover Foam (Windscreen) (x1)
- Camera Cold Shoe Mount (x1)
- USB-C cable with USB-A to USB-C adapter (6.5ft) (x1)
- 3.5mm TRS to TRS cable (1.6ft) (x1)
- User Manual (x1)



3. SETUP INSTRUCTIONS

Follow these steps to set up your NearStream AM10B microphone for various uses.

3.1 Connecting to a Computer (PC/Laptop)

1. Ensure the AM10B microphone is charged or connected to a power source.
2. Connect the AM10B to your computer using the provided USB-C cable. If your computer only has USB-A ports, use the included USB-A to USB-C adapter.
3. The microphone is plug-and-play and should be automatically recognized by Windows, macOS, or Linux. No additional drivers are typically needed.
4. Select 'NearStream MIC AM10B' as your input device in your computer's sound settings or recording software.

3.2 Connecting to a Camera (DSLR/Camcorder)

1. Attach the camera cold shoe mount to the 1/4" mounting thread at the base of the AM10B microphone.
2. Slide the cold shoe mount onto your camera's hot shoe or cold shoe slot and secure it.
3. Connect the AM10B's 3.5mm MIC OUT port to your camera's 3.5mm microphone input jack using the provided 3.5mm TRS to TRS cable.
4. Ensure the microphone is powered on.
5. Adjust the audio input levels on your camera as needed.

Strong Compatibility

Compatible with devices featuring 3.5mm TRS, USB-C, or USB-A port

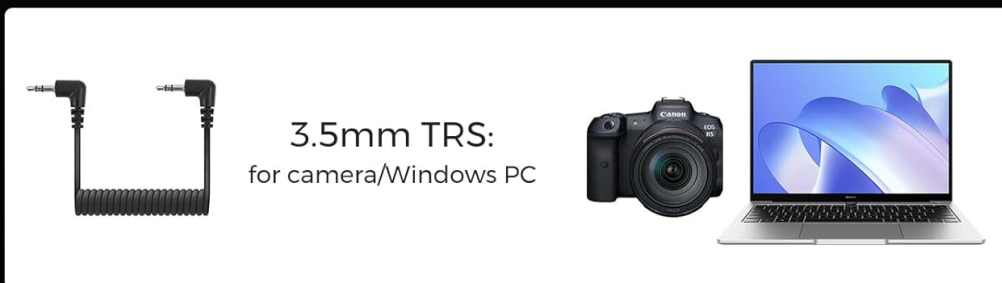
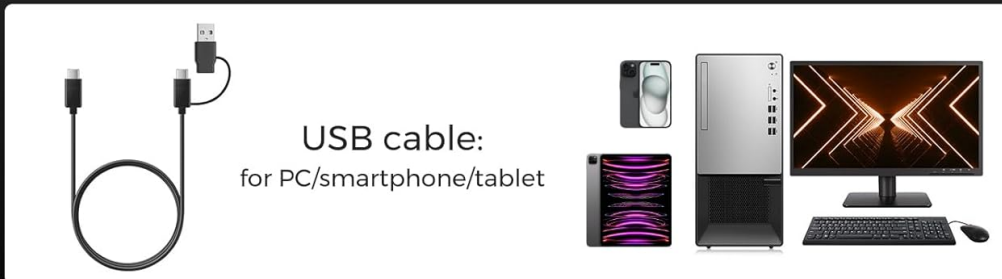


Image: Demonstrates the versatile connectivity of the AM10B microphone with both computers and cameras.



Image: Visual guide to the strong compatibility of the AM10B with different devices.

Video: A quick guide on how to set up the NearStream AM10B microphone for use with a computer and camera, including attaching the cold shoe mount and connecting cables.

4. OPERATING INSTRUCTIONS

Understand the key functions and controls of your AM10B microphone for optimal audio capture.

4.1 Power On/Off

- To power on, press and hold the power button located on the microphone.
- To power off, press and hold the power button again.

4.2 Polar Pattern Selection

The AM10B offers three selectable polar patterns to suit different recording scenarios. Press the 'MODE' button on the microphone to cycle through the patterns:

- **Omni-directional:** Captures sound equally from all directions. Ideal for multi-person recordings, interviews, or ambient sound.
- **Cardioid:** Primarily picks up sound from the front, reducing side and rear noise. Best for single speakers, podcasters, gaming streamers, and vocal recordings.
- **Bi-directional:** Captures sound from the front and rear, rejecting sound from the sides. Suitable for conversations between two speakers facing each other.

3 Versatile Polar Patterns

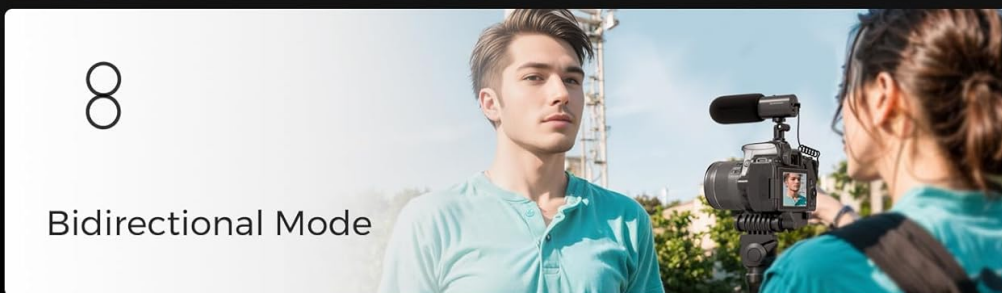


Image: Visual representation of the three versatile polar patterns available on the AM10B microphone.

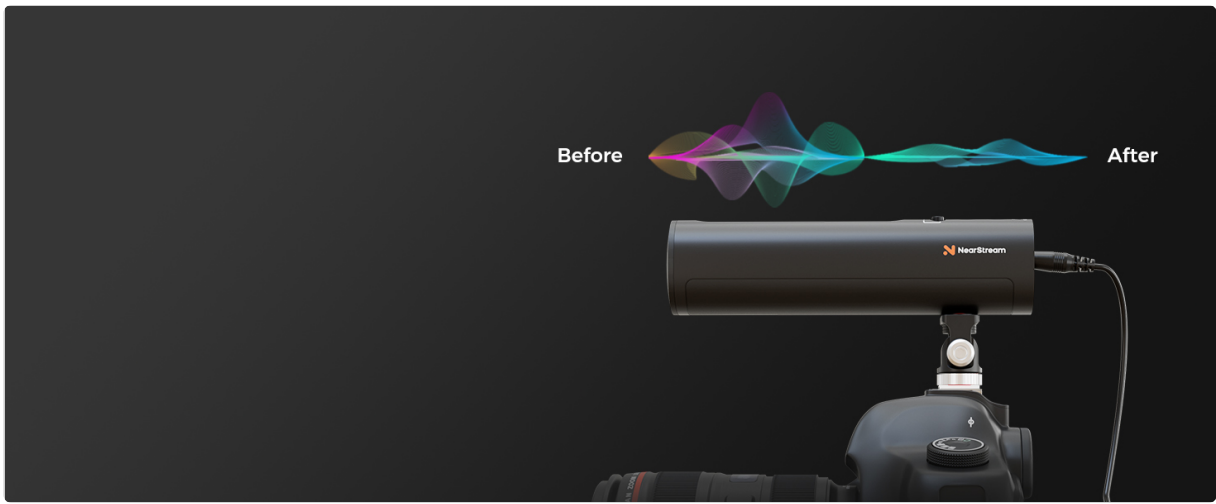


Image: Demonstrates practical applications for each of the three polar patterns.

4.3 Gain Control

The AM10B features a 3-level gain control switch. Adjust this switch to fine-tune the output volume of the microphone to match your recording environment and device input levels.

4.4 Mute Function

Press the mute button for quick silencing during recordings. This is particularly useful for live streaming, online meetings, or any situation requiring immediate audio cutoff.

4.5 Sound Monitoring

Connect headphones to the 3.5mm monitoring jack on the AM10B to listen to your audio in real-time. This allows for immediate adjustments to ensure high-quality sound output.



Image: User monitoring audio output from the AM10B microphone in real-time.

5. FEATURES

The NearStream AM10B is equipped with advanced features to enhance your audio recording experience:

- **8-Microphone Array with Intelligent Noise Canceling:** Combines beamforming technology and AI noise suppression for a 70dB vocal signal-to-noise ratio, capturing clear sound within a 10ft radius while filtering ambient noise.
- **Three Polar Patterns:** Easily switch between omni-directional, cardioid, and bi-directional modes for versatile recording in any scenario.

- **Wide Compatibility:** Plug-and-play functionality with USB-A, USB-C, or 3.5mm audio ports for PC, Mac, DSLR cameras, camcorders, and audio recorders.
- **12-Hour Battery Life & Sound Monitoring:** A 2600mAh lithium-ion battery provides 12 hours of continuous use after a 4-hour charge. Monitor audio via the 3.5mm jack.
- **3-Level Gain Control & Mute Button:** Fine-tune output volume and quickly mute audio for convenience during live sessions.
- **Mounting Flexibility:** Features a 1/4" mounting thread and a cold shoe mount with a swivel arm for easy installation on various setups.

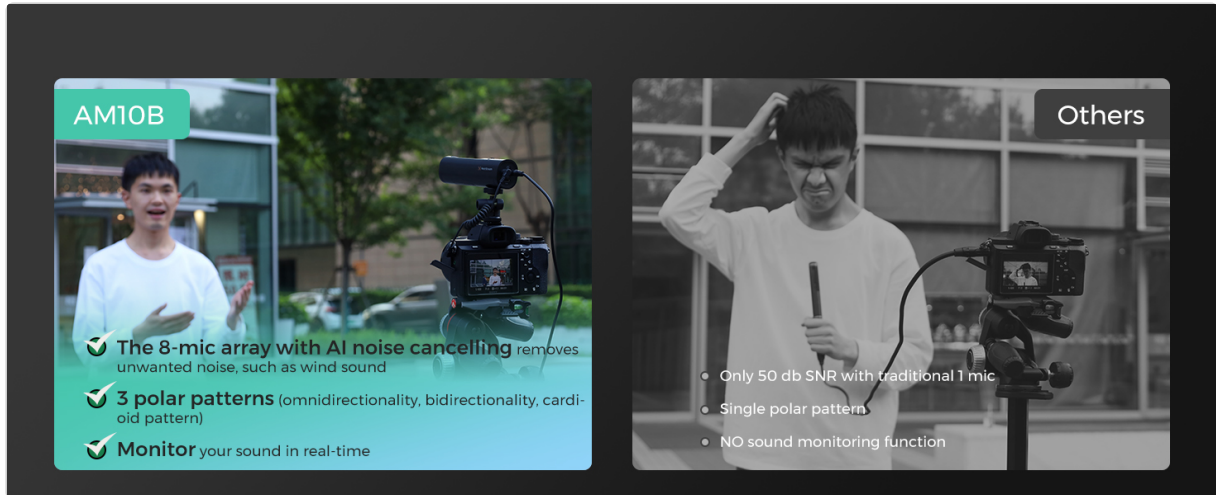


Image: Highlights the studio-quality sound recording capabilities with the 8-mic array.



Image: Illustrates the effectiveness of the advanced AI-powered noise cancellation feature.



Image: Details the rechargeable battery specifications and USB-C charging port.



Image: Refined design of the AM10B, highlighting all control buttons and ports.

6. SPECIFICATIONS

Feature	Detail
Microphone Form Factor	Tri-Capsule Array
Power Source	Built-in Battery
Material	Polycarbonate
Signal-to-Noise Ratio	70 dB
Hardware Platform	Laptop, PC
Number of Channels	1
Frequency Response	18 KHz
Item Weight	13.1 ounces
Item Model Number	AM10B
Color	Black
Hardware Interface	USB
Recommended Uses	Streaming, Video Conference, Vlogging
Connectivity Technology	Auxiliary, USB
Connector Type	3.5 mm Jack, USB
Special Features	Mute Function, Noise Reduction, Rechargeable microphone, Sound Monitoring, Volume Control
Compatible Devices	Camera, Laptop, Personal Computer
Polar Pattern	Omnidirectional, Cardioid, Bidirectional

7. MAINTENANCE

To ensure the longevity and optimal performance of your NearStream AM10B microphone, follow these maintenance guidelines:

- **Cleaning:** Use a soft, dry cloth to clean the microphone's exterior. Avoid using harsh chemicals, solvents, or abrasive materials.
- **Storage:** Store the microphone in a cool, dry place away from direct sunlight and extreme temperatures. Use the original packaging or a protective case when not in use.
- **Battery Care:** For optimal battery life, avoid fully discharging the microphone frequently. Charge it regularly, even if not in use for extended periods.
- **Windscreen:** The included foam windscreen helps reduce wind noise and protect the microphone capsule. Clean it periodically by gently rinsing with mild soap and water, then air dry completely before reattaching.

8. TROUBLESHOOTING

If you encounter issues with your NearStream AM10B microphone, refer to the following common troubleshooting steps:

8.1 No Audio Output/Input

- **Check Connections:** Ensure all cables (USB or 3.5mm TRS) are securely connected to both the microphone and your device.
- **Power Status:** Verify that the microphone is powered on and has sufficient battery charge.
- **Device Settings:** Confirm that the AM10B is selected as the default input/output device in your computer's sound settings or camera's audio input menu.
- **Volume Levels:** Adjust the gain control on the microphone and the input/output volume on your connected device.
- **Cable Integrity:** Try using a different cable to rule out a faulty connection.

8.2 Driver Issues (PC/Mac)

Although the AM10B is plug-and-play, occasional driver conflicts can occur. If you experience issues with your computer recognizing the microphone:

1. Disconnect the AM10B from your computer.
2. Open Device Manager (Windows) or System Information (macOS).
3. Locate any entries related to 'NearStream MIC AM10B' under 'Audio inputs and outputs' or 'Sound, video and game controllers'.
4. Right-click on these entries and select 'Uninstall device'. If prompted, confirm the uninstallation.
5. Restart your computer.
6. Reconnect the AM10B microphone. Your computer should reinstall the necessary drivers automatically.

Video: Instructions on how to uninstall the AM10B microphone driver on a Windows computer to resolve potential driver conflicts.

8.3 Poor Audio Quality / Excessive Noise

- **Polar Pattern:** Ensure you have selected the appropriate polar pattern for your recording environment. For single-person recording, Cardioid mode is often best.
- **Windscreen:** Use the included foam windscreen, especially in outdoor environments, to minimize wind noise.
- **Gain Adjustment:** If audio is distorted, reduce the gain. If it's too quiet, increase the gain. Avoid setting the gain too high, which can introduce hiss.
- **Environment:** Record in a quiet environment whenever possible. While AI noise cancellation is effective, it cannot eliminate all background noise.

9. WARRANTY AND SUPPORT

NearStream products are designed for reliability and performance. For specific warranty details and technical support, please refer to the warranty card included in your product packaging or visit the official NearStream website. Keep your purchase receipt as proof of purchase for warranty claims.