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NearStream AM10U

NearStream AM10U USB Condenser Microphone Instruction Manual

Model: AM10U

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1. INTRODUCTION

The NearStream AM10U is a professional USB condenser microphone designed for high-quality audio capture. Featuring an 8-microphone array with advanced noise cancellation and multiple polar patterns, it is ideal for PC, camera, podcasting, streaming, recording, and video conferencing. This manual provides essential information for setting up, operating, and maintaining your AM10U microphone.

2. PACKAGE CONTENTS

Verify that all items listed below are included in your package:

- AM10U Desktop Microphone (1)
- Microphone Desk Stand (1)
- USB-C cable with USB-A adapter (6.5 ft) (1)
- Instruction Manual (1)



Image: Contents of the NearStream AM10U package, showing the microphone, desk stand, USB cable, and documentation.

3. SETUP

- 1. Assemble the Microphone:** Attach the AM10U microphone to the provided desk stand. The microphone features a 1/4" screw hole for secure mounting.
- 2. Connect to Device:**
 - For PC/Laptop: Connect the USB-C end of the provided cable to the microphone and the USB-A end to your computer's USB port. If your computer has a USB-C port, you can use the USB-C to USB-C connection directly.
 - For Camera: Use a 3.5mm TRS audio cable (not included) to connect the microphone's 3.5mm audio port to your camera's audio input.
- 3. Placement:** Position the microphone on your desk or mount it on a boom arm (sold separately) for optimal sound capture. Ensure the microphone is facing the sound source.



Image: The NearStream AM10U microphone securely mounted on its adjustable desk stand.

Unleash Your Creativity with 3 Polar Patterns



Image: The AM10U microphone connected to a laptop, demonstrating its plug-and-play USB connectivity.

USB Microphone with Functional Button

Balancing soft and loud speakers for comfortable sound through adjusting the MIC volume



Image: Detail of the 1/4" screw hole on the AM10U, allowing for versatile mounting options like a boom arm.

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Video: A demonstration of setting up the NearStream AM10U USB Condenser Microphone for podcasting, showing assembly and connection.

4. OPERATING INSTRUCTIONS

4.1 Controls Overview

Ultra-Low Latency Monitoring, Under 80ms

Hear your real-time voice to adjust your voice, enhancing your sound effect



Image: Detailed view of the AM10U's control panel, highlighting the volume, mute, noise canceling, and polar pattern buttons.

- **Volume Control:** Use the '+' and '-' buttons to adjust the microphone's output volume. The AM10U offers three-level gain control.
- **Mute Button:** Press the mute button to instantly mute or unmute the microphone.
- **Noise Canceling Button:** Long-press the MODE button for 2 seconds to toggle the AI noise suppression. The indicator light will be blue when noise canceling is active and green when it is off.
- **Polar Pattern Selection:** Press the MODE button (short press) to cycle through the three available polar patterns:
 - **Omni-directional:** Captures sound from all directions, ideal for multi-person recordings.
 - **Cardioid:** Focuses on sound directly in front of the microphone, suitable for solo vocals, podcasts, and gaming.
 - **Bi-directional (Figure-8):** Captures sound from the front and rear, perfect for two-person interviews.

Bring Noise Cancelling to Everyone

Empowered by compressed neural network on consumer chipsets



Image: Visual representation of the AM10U's three polar patterns and their applications.

4.2 Sound Monitoring

The AM10U features a headphone output for real-time, ultra-low latency sound monitoring (under 80ms). Plug your headphones into the 3.5mm headphone jack on the microphone to monitor your audio output and make adjustments as needed.

Strong Compatibility



Google Meet



Microsoft Teams

Image: A user monitoring their voice in real-time using headphones connected to the AM10U microphone.

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Video: A demonstration of the NearStream AM10U USB Condenser Microphone's features, including its 8-mic array, gain controls, and polar patterns.

5. KEY FEATURES

- **8-Microphone Array:** Integrated 8-microphone array with beamforming technology for clear sound capture within a 3-meter radius, boasting a 70dB vocal signal-to-noise ratio.
- **AI Noise Suppression:** Effectively filters out background noises like keyboard clicks. Toggle on/off with the MODE button.
- **Three Polar Patterns:** Omni-directional, Cardioid, and Bi-directional modes for versatile recording scenarios.
- **Ultra-Low Latency Monitoring:** Headphone output provides real-time audio monitoring with less than 80ms latency.

- **3-Level Gain Control:** Precise adjustment of output volume for optimal sound quality.

Studio Quality Sound Pickup with 8 MIC Array

Generous 8 MIC array with beamforming technology ensures studio-quality sound pickup at a greater distance



Image: The AM10U's 8-mic array with beamforming technology for superior sound pickup.

Control Noise Canceling On/Off

Long press the mode button for 2s to activate the noise canceling function



Note: Please update your AM10U to the latest version (V1.100.0.8.D.240624) or later via the NearSync software to enable the noise canceling on/off feature.

Image: Demonstrating the noise canceling function of the AM10U, indicated by blue (on) and green (off) lights.

6. CONNECTIVITY & COMPATIBILITY

- Plug-and-Play:** No additional drivers are required for Windows, MacOS, and Linux operating systems.
- Wide Compatibility:** Connects directly to devices with USB-A or USB-C ports (PC, laptop). The 3.5mm audio port allows connection to cameras (Camera Audio Cable (3.5mm TRS) not included).
- Platform Support:** Compatible with popular recording applications like Audacity and streaming platforms such as OBS, Twitch, YouTube, and Facebook.

Ultra-Low Latency Monitoring, Under 80ms

Hear your real-time voice to adjust your voice, enhancing your sound effect



Image: The AM10U's functional buttons and connectivity ports for versatile use.

Elegant Microphone Stand

You flexibly adjust the microphone position to meet your needs



Image: The AM10U microphone demonstrating strong compatibility with various streaming and conferencing platforms.

7. SOFTWARE UPDATES

To ensure optimal audio performance and access to the latest features, it is recommended to update your AM10U system to the latest version via the NearSync software. NearStream frequently provides updates for the NearSync software.

1. **Download NearSync:** Search for "NearStream NearSync Software" in your web browser and download the appropriate version for Windows or Mac.
2. **Connect Microphone:** Connect your AM10U to your PC using the USB-C cable.
3. **Update Device:** Open the NearSync software, click on the "AM10U" menu, then select "Device Update." The AM10U will update after the package downloads.



Image: Instructions for updating the AM10U firmware using the NearSync software.

8. SPECIFICATIONS

Feature	Detail
Model Number	AM10U
Microphone Type	Condenser, 8-Mic Array
Polar Patterns	Omni-directional, Cardioid, Bi-directional (Figure-8)
Frequency Response	20 KHz
Signal-to-Noise Ratio (Vocal)	70dB
Connectivity	USB-C, 3.5mm Audio Jack
Compatibility	Windows, MacOS, Linux, Cameras
Special Features	AI Noise Suppression, 3-Level Gain Control, Zero-Latency Monitoring, Mute Function
Mounting	1/4" Screw Hole, Desk Stand
Material	Metal
Item Weight	1.34 pounds
Color	Black

9. TROUBLESHOOTING

- **No Sound Output:**

- Ensure the microphone is properly connected to your device via USB or 3.5mm cable.
- Check your device's audio input settings to confirm the AM10U is selected as the default microphone.
- Verify the microphone is not muted and the volume is adequately adjusted.
- If using with a camera, ensure the correct audio input settings are selected on the camera.

- **Background Noise:**

- Activate the AI noise suppression feature by long-pressing the MODE button (blue indicator).
- Adjust microphone placement to minimize ambient noise pickup.
- Ensure the correct polar pattern is selected for your recording environment (e.g., Cardioid for single speaker).

- **Distorted Audio:**

- Reduce the microphone's gain using the '-' button.
- Ensure you are not speaking too close to the microphone.
- Check your device's audio input levels to prevent clipping.

- **Microphone Not Recognized:**

- Try connecting the microphone to a different USB port or a different device.
- Restart your computer.
- Ensure your operating system is up to date.
- Update the AM10U firmware using the NearSync software.

Your browser does not support the video tag.

Video: A short demonstration of the NearStream AM10U's noise cancellation capabilities, comparing audio with and without the feature.

10. WARRANTY & SUPPORT

The NearStream AM10U microphone comes with a standard manufacturer's warranty. Please refer to the warranty card included in your package for specific terms and conditions.

For technical support, troubleshooting assistance, or any questions regarding your NearStream AM10U, please contact NearStream customer service. Contact information can typically be found on the NearStream official website or on the warranty card.

We are committed to ensuring you have a seamless experience with your product.

