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› Nuroum C46 4K Web Camera with Microphone and Speaker User Manual

Nuroum C46

Nuroum C46 4K Web Camera with Microphone and Speaker User Manual

1. INTRODUCTION

The Nuroum C46 is an all-in-one 4K web camera designed for video conferencing, online education, and hybrid work environments. It integrates a high-resolution camera, a multi-array microphone, and a powerful speaker into a single, compact device. This manual provides essential information for setting up, operating, and maintaining your C46 to ensure optimal performance.

2. PACKAGE CONTENTS

Please check the package for the following items:

- Nuroum C46 Unit
- Remote Control
- 2m USB Cable (Type-C to Type-A)
- Power Adapter
- Instruction Manual
- Warranty Card

3. PRODUCT OVERVIEW

The Nuroum C46 combines a 4K camera, 4 smart microphones, and a high-output speaker for a comprehensive conferencing solution. Its integrated design simplifies setup and use.



Figure 3.1: Nuroum C46 Integrated Design. This image illustrates the internal components of the C46, including the Sony CMOS sensor for 4K video, the 4-microphone array for audio input, and the high-output speaker for clear sound reproduction.

Key Components:

- **4K UHD Camera:** Equipped with a Sony CMOS sensor for clear video quality.
- **4 Smart Microphones:** Omnidirectional pickup up to a 5-meter radius, featuring AI noise and echo cancellation.
- **High-Output Speaker:** Delivers clear audio for all participants.
- **120° Ultra-Wide Angle Lens:** Ensures all participants are visible in the frame.

4. SETUP

Follow these steps to set up your Nuroum C46:

1. **Placement:** Place the Nuroum C46 on a stable surface in your meeting space. Ensure it has a clear view of all participants.
2. **Power Connection:** Connect the included power adapter to the C46 and then to a power outlet.
3. **USB Connection:** Connect the provided 2m USB cable from the C46 to an available USB port on your computer. The device is plug-and-play, so no additional drivers are typically required.
4. **Mounting Options:** The base of the C46 includes a 1/4-inch screw hole, allowing it to be mounted on a tripod or stand for flexible positioning.

エンタープライズレベルのセキュリティ管理

会議デバイスのカメラをすぐに無効にしてマイクをミュートにすると、重要なプライバシーが保護されます。

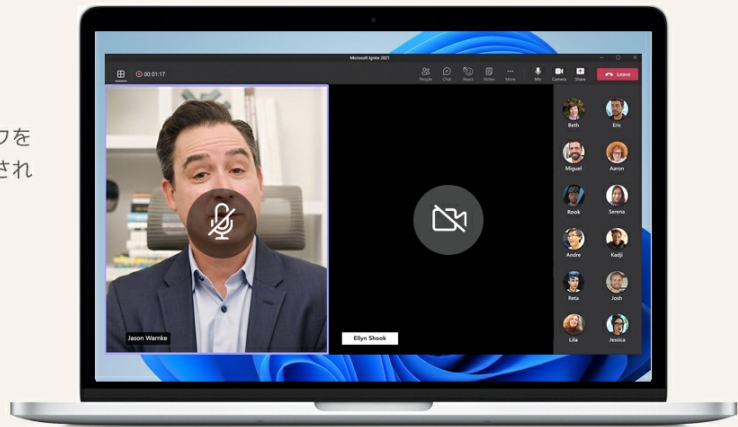
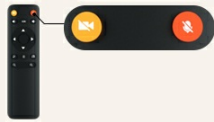


Figure 4.1: Multiple Mounting Options. The C46 can be placed directly on a table or attached to a stand or tripod using its 1/4-inch screw hole for versatile setup.

5. OPERATING INSTRUCTIONS

5.1 Basic Operation

- Once connected via USB, the C46 will be recognized by your computer as a camera, microphone, and speaker.
- Select "Nuroum C46" as your preferred audio and video device in your video conferencing software (e.g., Zoom, Skype, Microsoft Teams).

5.2 Remote Control Functions

The included infrared remote control allows for convenient adjustment of the C46 settings:

- **Power Button:** Turn the device ON/OFF.
- **Camera ON/OFF:** Toggle the camera video stream.
- **Microphone Mute:** Mute or unmute the microphone.
- **Volume Control:** Adjust speaker volume.
- **Pan/Tilt:** Use arrow keys to adjust the camera angle (up, down, left, right).
- **Zoom:** Use the zoom in/out buttons for 5x digital zoom.
- **HDR ON/OFF:** Toggle High Dynamic Range for improved image quality in varied lighting.

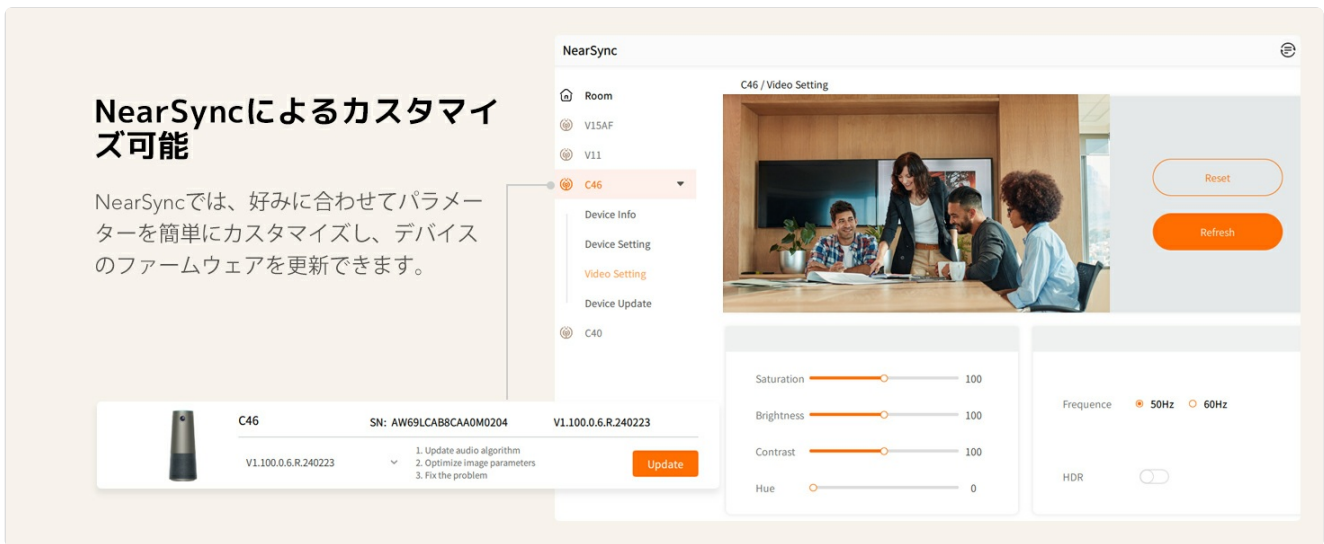


Figure 5.1: Remote Control Zoom Function. The remote allows precise control over the 5x digital zoom, enabling focus on important details during a meeting.

5.3 AI Auto-Framing

The C46 features AI-powered auto-framing technology that automatically adjusts the camera to keep all participants in view. This ensures that everyone is properly framed without manual intervention.



Figure 5.2: AI Auto-Framing in Action. The camera detects participants in its field of view and automatically adjusts its framing to keep them centered and visible.

6. FEATURES

6.1 120° Ultra-Wide Angle

The custom-designed 120° ultra-wide-angle optical lens ensures that all participants in the room are captured, providing an immersive meeting experience.

4 MEMS マイク内蔵

4つの内蔵マイクにより、360°の広範囲をカバーし
最大5メートルの集音範囲を実現



Figure 6.1: 120° Ultra-Wide Angle View. This image demonstrates how the C46's wide-angle lens captures all individuals in a meeting setting, unlike a standard narrow-angle camera.

6.2 AI Noise & Echo Cancellation

The C46 utilizes patented AI audio algorithms and four built-in microphones to intelligently cancel background noise and echo, ensuring clear and crisp voice pickup for up to 20 participants within a 5-meter radius.

複数の取り付けオプション

カメラをテーブルに直接置くだけでなく、底部の 1/4 インチネジを使用してスタンドや三脚にしっかりと取り付けることもできます。



Figure 6.2: Powerful Noise Cancellation. This diagram illustrates how the C46's dual microphones and AI processing work to eliminate background noise, ensuring clear audio transmission.

6.3 Wide Compatibility

The Nuroom C46 is compatible with various operating systems and video conferencing platforms, offering high flexibility for different work environments.

- **Operating Systems:** Windows, macOS, Linux, ChromeOS, Android (device dependent).
- **Platforms:** Tested and works with Zoom, Skype, Slack, Google Hangouts/Classroom, GoToMeeting, BlueJeans, Twitch/Facebook Live/XSplit/OBS, and more.

If you intend to use the device with software or systems not listed above, please contact our support center for assistance.

AI を活用した オート フレーミング 技術

カメラは視野内の参加者を検出し、全員が最適なフレーミング位置に留まるように自動的に調整できます。



Figure 6.3: High Compatibility. The C46 is compatible with major operating systems and video conferencing applications like Zoom, Teams, Google Meet, and WebEx.

7. MAINTENANCE

7.1 Firmware Updates

Nuroum provides regular firmware updates to enhance performance (e.g., audio pickup, speaker EQ) and introduce new features. You can manage and update your device's firmware using the NearSync application, available on the official Nuroum website for Windows and macOS.



Figure 7.1: NearSync Customization. The NearSync application allows users to customize parameters and update the device's firmware for optimal performance.

7.2 Cleaning

To maintain the device's appearance and functionality, gently wipe the exterior with a soft, dry cloth. Avoid using harsh chemicals or abrasive materials.

8. TROUBLESHOOTING

If you encounter issues with your Nuroum C46, please refer to the following common troubleshooting steps:

- **No Video/Audio:** Ensure the USB cable is securely connected to both the C46 and your computer. Verify that the C46 is selected as the active camera, microphone, and speaker in your conferencing software settings.
- **Poor Video Quality:** Check your internet connection speed. Ensure the lens is clean and free from obstructions. Adjust HDR settings via the remote if lighting conditions are challenging.
- **Poor Audio Quality:** Ensure the microphone is not muted. Check for excessive background noise. Ensure the C46 is placed centrally in the meeting space for optimal sound pickup.
- **Remote Control Not Responding:** Check the battery in the remote control. Ensure there are no obstructions between the remote and the C46.
- **Software Compatibility:** If using a platform not explicitly listed as compatible, ensure your operating system and software are up to date. Contact Nuroum support if issues persist.

9. SPECIFICATIONS

Feature	Specification
Brand	Nuroum
Model Number	AW-C46-JP
Video Capture Resolution	4K UHD
Photo Sensor Technology	CMOS
Optical Zoom	5X
Digital Zoom	5X
Max Focal Length	2.26 millimeters
Min Focal Length	2.26 millimeters
Image Stabilization	No
Form Factor	Ultra Compact
Video Capture Format	MPEG, MP4
Supported Audio Format	AAC
Included Components	Instruction Manual, USB Cable, C46 Unit
Country of Origin	China

10. WARRANTY AND SUPPORT

The Nuroum C46 comes with a **1-year warranty** from the date of purchase. Please retain your warranty card and proof of purchase for any claims.

For any questions, technical assistance, or support, please contact Nuroum's 24/7 service team. You can find contact information and additional resources, including the NearSync application for firmware updates, on the official

Nuroum website.