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ELECOM UCAM-CX80FBBK

ELECOM 4K AI Auto-Tracking Webcam UCAM-CX80FBBK User Manual

Model: UCAM-CX80FBBK

INTRODUCTION

This manual provides detailed instructions for the setup, operation, and maintenance of your ELECOM 4K AI Auto-Tracking Webcam (Model: UCAM-CX80FBBK). This webcam is designed to deliver high-quality video and audio for various applications, including video conferencing, streaming, and content creation. It features 4K Ultra HD resolution at 60 frames per second, AI-powered auto-tracking, dual noise-cancelling microphones, auto light correction (HDR), speaker marking technology, and a 130-degree ultra-wide-angle lens.

PACKAGE CONTENTS

- ELECOM 4K AI Auto-Tracking Webcam (UCAM-CX80FBBK)
- USB-C to USB-A Cable
- Privacy Cover
- User Manual (this document)

SETUP INSTRUCTIONS

Follow these steps to set up your ELECOM 4K AI Auto-Tracking Webcam:

- Placement:** Position the webcam securely on top of your monitor, laptop screen, or a compatible tripod. The integrated clip allows for stable mounting. Ensure the lens is clear and unobstructed.
- Connect to Computer:** Connect the provided USB-C to USB-A cable to the webcam's USB-C port and then to an available USB-A port on your computer. For optimal performance, especially 4K resolution, it is recommended to use a USB 3.0 or higher port. If your computer has a Thunderbolt USB-C port, using a USB-C to USB-C cable with that port is ideal for 4K and HDR functionality.
- Plug & Play:** The webcam is designed for plug-and-play operation with Windows, macOS, and ChromeOS. Your operating system should automatically detect and install the necessary drivers.
- Software Installation (Optional):** While the webcam functions without additional software, ELECOM may offer optional software to access advanced features and settings. Check the official ELECOM website for any available downloads.
- Privacy Cover:** Attach the included privacy cover over the lens when the webcam is not in use to ensure your privacy.

HDR機能

あらゆる照明条件下で明暗を自動調整し、
表情をあざやかに映します



Figure 1: Webcam mounted on a laptop screen.



Figure 2: Overview of key features and easy setup.

OPERATING INSTRUCTIONS

Video Quality and Resolution

The UCAM-CX80FBBK supports Ultra 4K HD resolution (up to 8.6 megapixels) at 60 frames per second, providing crisp details and vivid colors. Ensure your video conferencing or streaming software is configured to use the highest available resolution and frame rate settings for optimal performance.

AI Auto-Tracking and Auto Zoom

The webcam features AI-powered auto-tracking that automatically detects individuals in the frame and adjusts the zoom to maintain an optimal view. This ensures you remain centered and clearly visible during calls or presentations, even if you move slightly.



Figure 3: AI Auto-Tracking in action, adjusting the frame to keep subjects in view.

Speaker Marking Technology

In multi-person settings, the innovative AI Speaker Marking technology identifies the active speaker and visually highlights them with a small icon. This feature enhances clarity in group discussions by making it easy to identify who is speaking.



Figure 4: Speaker Marking visually identifying the active speaker in a group setting.

Dual Noise-Cancelling Microphones

The integrated dual microphones utilize noise-cancelling technology to filter out ambient sounds, ensuring your voice is captured clearly. This is particularly beneficial in noisy environments, allowing for effective communication.

Auto Light Correction (HDR)

The High-Dynamic Range (HDR) function automatically adjusts exposure and contrast to compensate for challenging lighting conditions, such as glare or backlighting. This helps maintain a balanced and clear image of your face.

130-Degree Ultra-Wide Angle Lens

The webcam features a 130-degree ultra-wide-angle lens, allowing you to capture a broader view of your surroundings without significant distortion. This is ideal for group meetings or showcasing a wider area.

The Webcam for the doers, makers, and creators among us



Figure 5: Wide-angle lens capturing more of the environment.

Privacy Cover Usage

Always use the included privacy cover when the webcam is not actively in use to prevent unintended video capture and protect your privacy.

「発言中マーク」表示

エレコム独自の AI 技術が発言者を認識し、
スムーズな会議進行をサポートします



Figure 6: Webcam with privacy cover engaged.

Versatile Mounting Options

The webcam can be mounted on various surfaces, including monitors, laptops, or tripods, providing flexibility for different setups.

PC に繋いですぐに使える 面倒な設定は不要なので 複数人で使用する備品としても最適です



Figure 7: Webcam mounted on a tripod for flexible positioning.

OFFICIAL PRODUCT VIDEOS

4K Pro Video Webcam by Elecom

Your browser does not support the video tag.

This video provides an overview of the ELECOM 4K Pro Video Webcam's features, including its 4K resolution, auto-tracking, and other advanced functionalities.

Tracking Webcam - Elevate Your Every Meeting

Your browser does not support the video tag.

This video demonstrates how the ELECOM Tracking Webcam can enhance your virtual meetings with its intelligent tracking capabilities and high-quality output.

MAINTENANCE

To ensure the longevity and optimal performance of your webcam, follow these maintenance guidelines:

- **Cleaning:** Gently wipe the lens with a soft, lint-free cloth. For stubborn smudges, use a lens cleaning solution specifically designed for optical surfaces. Avoid abrasive materials or harsh chemicals.
- **Body Cleaning:** Use a soft, dry cloth to clean the webcam body. Do not use liquid cleaners directly on the device.
- **Storage:** When not in use for extended periods, store the webcam in a cool, dry place, away from direct sunlight and extreme temperatures. Always use the privacy cover to protect the lens.
- **Cable Care:** Avoid bending or twisting the USB cable excessively. Do not pull the cable to disconnect the webcam; always grasp the connector.

TROUBLESHOOTING

If you encounter issues with your ELECOM 4K AI Auto-Tracking Webcam, refer to the following troubleshooting steps:

- **Webcam Not Detected:**

- Ensure the USB cable is securely connected to both the webcam and your computer.
- Try connecting the webcam to a different USB port on your computer.
- Restart your computer.
- Check your operating system's device manager (Windows) or System Information (macOS) to see if the webcam is listed.

- **No Video/Black Screen:**

- Verify that the privacy cover is not obstructing the lens.
- Ensure your video conferencing or streaming application is correctly configured to select the ELECOM webcam as the video source.
- Check if any other application is currently using the webcam, as some systems only allow one application to access it at a time.

- **Poor Video Quality (Blurry, Grainy, Low Frame Rate):**

- Ensure adequate lighting in your environment. The webcam's auto light correction works best with sufficient ambient light.
- Clean the webcam lens.
- Check your application's video settings to ensure 4K resolution and 60fps are selected, if supported by your system and internet connection.
- For 4K and HDR, a Thunderbolt USB-C port is highly recommended. Standard USB-A ports or non-Thunderbolt USB-C ports may not provide sufficient bandwidth for full 4K/HDR performance, especially on certain system configurations (e.g., some AMD motherboards).

- **No Audio/Poor Audio Quality:**

- Ensure the ELECOM webcam's microphone is selected as the audio input device in your computer's sound settings and your application.
- Check microphone volume levels.
- Ensure there are no physical obstructions blocking the microphones.

- **Webcam Gets Hot:**

- It is normal for electronic devices to generate some heat during operation, especially when processing high-resolution video. If the webcam becomes excessively hot or malfunctions, discontinue use and contact support.

- **Intermittent Disconnections:**

- A faulty USB cable can cause disconnections. Try using a different, high-quality USB-C to USB-A or USB-C to USB-C cable.
- Ensure the USB port is not loose or damaged.

SPECIFICATIONS

Feature	Specification
Brand Name	ELECOM
Model Number	UCAM-CX80FBBK
Item Weight	4.4 ounces
Product Dimensions	8.98 x 2.13 x 6.14 inches
Color	Black
Photo Sensor Technology	CMOS
Video Capture Resolution	Ultra 4K HD
Maximum Aperture	24 Millimeters
Connectivity Technology	USB
Special Features	AI Auto-Tracking, Dual Microphone, Noise Cancelling, Auto Light Correction (HDR), Speaker Marking, 130-Degree Ultra Wide Angle

WARRANTY AND SUPPORT

For warranty information and technical support, please refer to the warranty card included with your product or visit the official ELECOM website. You can also contact ELECOM customer service for assistance with product registration, troubleshooting, and service requests.

Note: Specific warranty terms and conditions may vary by region. Please retain your proof of purchase for warranty claims.