NexiGo NexiGo-Webcam Iris

NexiGo Iris 4K AI Webcam User Manual

MODEL: NEXIGO-WEBCAM IRIS

1. Introduction

This manual provides detailed instructions for the setup, operation, and maintenance of your NexiGo Iris 4K AI Webcam. The NexiGo Iris is designed to deliver high-quality video and audio for various applications, including video conferencing, streaming, and content creation. It features a large 1/1.8-inch Sony STARVIS sensor, AI-powered functionalities like auto-framing and auto-tracking, Picture-in-Picture mode, and versatile connectivity options.

Figure 1: NexiGo Iris 4K AI Webcam, remote control, and USB cables.

2. Setup

2.1 Physical Connection

Connect the webcam to your computer using the provided USB 3.0 cable. The USB port supports uncompressed video up to 1080p at 60fps. For uncompressed 4K video, utilize the HDMI output port and connect it to a compatible capture card (sold separately).

2.2 Mounting

The webcam features an adjustable clip mechanism for secure mounting on top of your monitor or laptop screen. Ensure the clip is firmly attached to prevent movement.

2.3 Software Installation

The NexiGo Iris is a plug-and-play device and typically does not require driver installation for basic functionality. For advanced settings and customization, you may download the dedicated software from the NexiGo website. Refer to the Quick Start Guide for the download link.

3. Operating the Webcam

3.1 Key Features

3.1.1 Large 1/1.8-inch Sony STARVIS Sensor

The NexiGo Iris is equipped with a 1/1.8-inch Sony STARVIS sensor, providing superior low-light

performance and a wide dynamic range. The 10-element all-glass lens minimizes distortion for clear image quality.
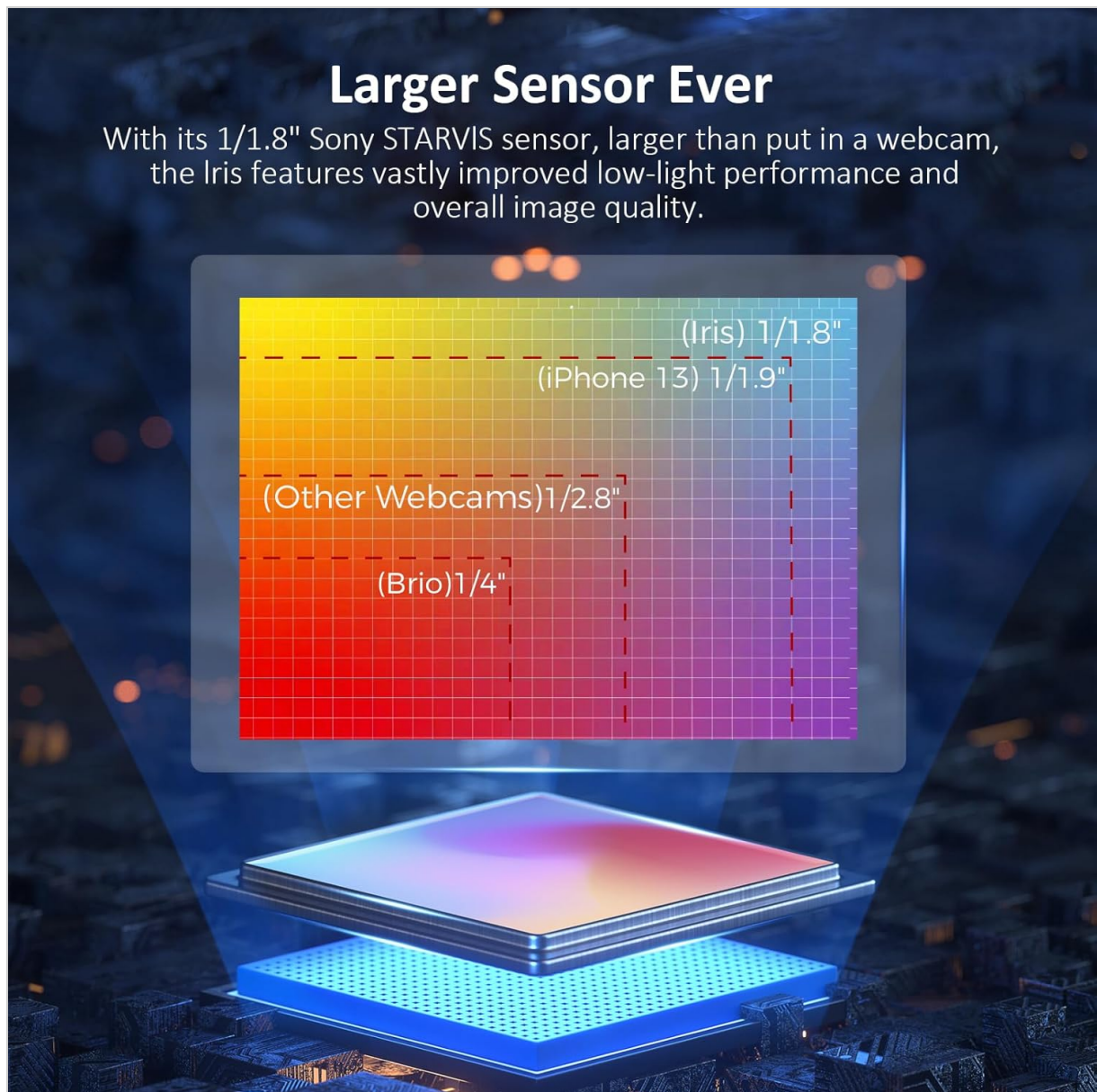

Figure 2: The large 1/1.8-inch Sony STARVIS sensor enhances image quality.

3.1.2 AI-Powered Auto Framing and Tracking

The intelligent AI enables automatic framing and tracking functions. Auto-framing keeps all participants centered in the frame, while auto-tracking follows a single speaker as they move, ensuring they remain in focus.
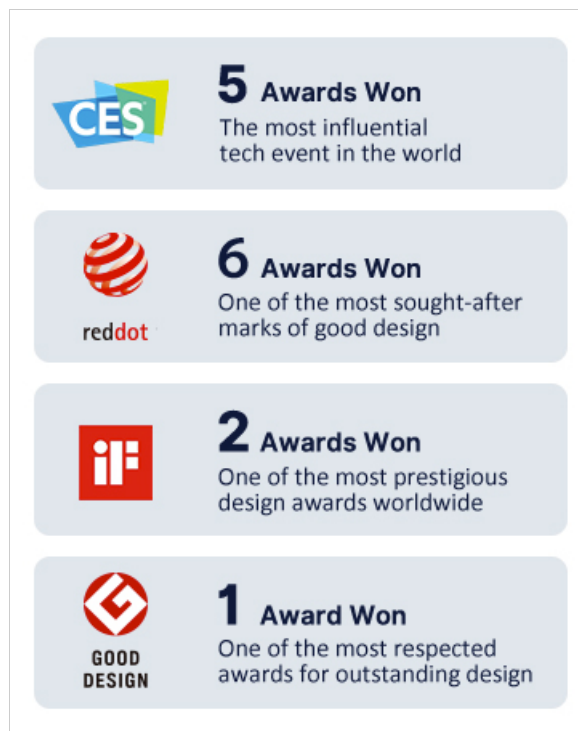
Figure 3: AI Auto-Framing keeps subjects centered in the video.

3.1.3 Picture-in-Picture (PiP) Mode

PiP mode allows you to display a small frame highlighting your face while a larger frame can zoom in on content, ideal for dynamic presentations.
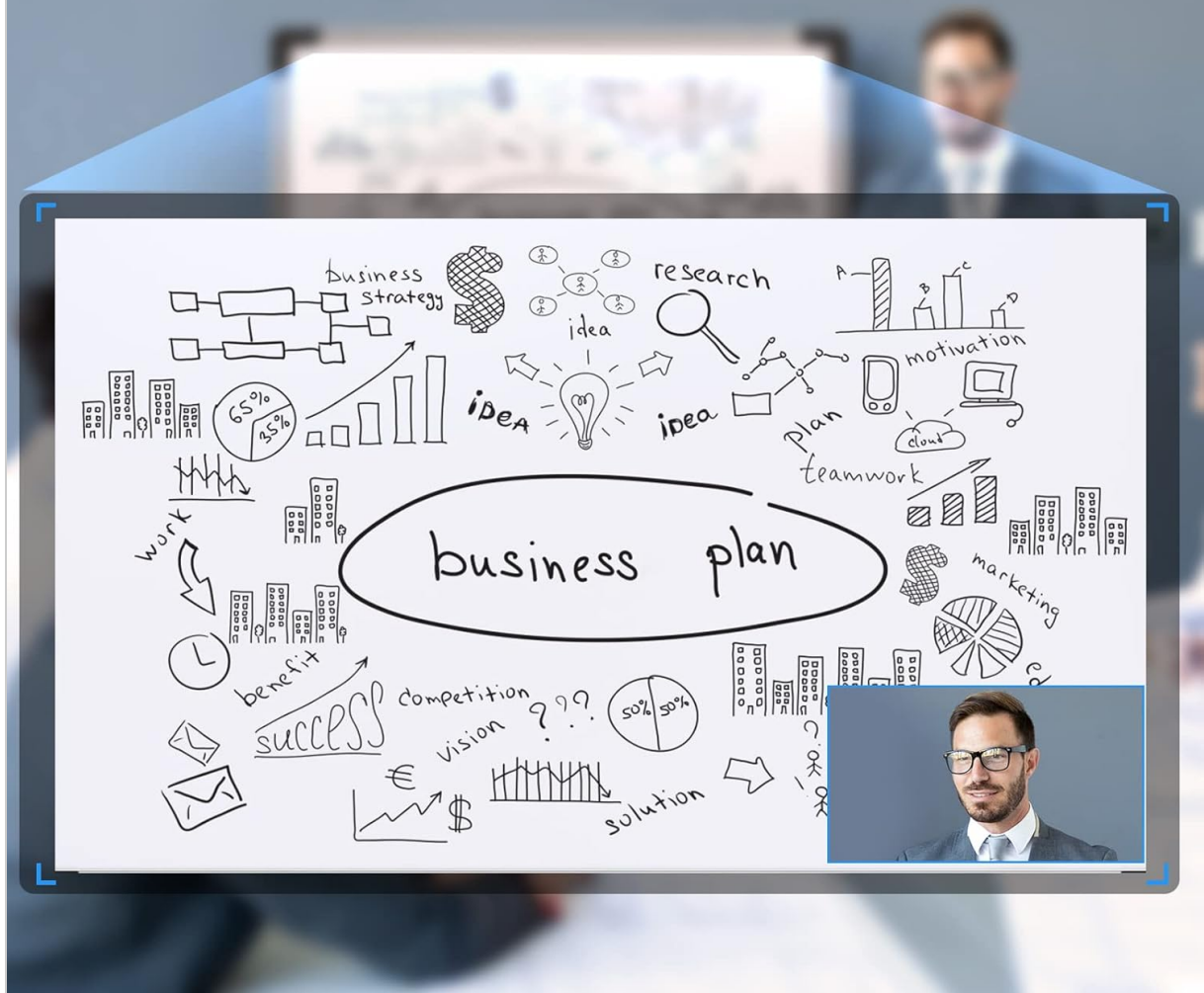
Figure 4: Innovative Picture-in-Picture Mode for presentations.

3.1.4 Uncompressed 4K Video Output

The webcam provides an HDMI output for uncompressed 4K video to your PC, suitable for professional recordings. The USB port supports uncompressed video up to 1080p at 60fps.

Figure 5: HDMI output for uncompressed 4K video.

3.1.5 Onboard Flash Memory

Save up to three different image settings directly to the camera's onboard flash memory for quick recall without needing software.

Figure 6: Onboard Flash Memory allows saving and recalling image settings.

3.1.6 Low-Light Correction and HDR

The webcam features HDR and low-light correction to deliver true-to-life detail and color even in dimly lit environments.

Figure 7: Low-Light Correction improves visibility in dim settings.

3.1.7 Dual Omnidirectional Noise-Canceling Microphones

Powerful dual omnidirectional microphones can pick up your voice clearly from up to 20 feet away, with noise cancellation to reduce background distractions.

Figure 8: Dual Omnidirectional Microphones for clear audio.

3.2 Remote Control Functions

The included remote control provides convenient access to various webcam features. The remote allows you to switch between preset image modes, adjust AI sensitivity, control zoom, pan, and tilt, and access the On-Screen Display (OSD) menu.

Your browser does not support the video tag.

Video 1: Demonstrates various remote control functions including mode switching, auto-framing, auto-tracking, and OSD menu navigation.

3.2.1 Mode Switching

Press the mode button on the remote to cycle through the three preset image modes: Streaming Mode, Low Light Mode, and Meeting Mode. The webcam's onboard flash memory will retain any custom settings made within each mode.

3.2.2 Auto Framing/Tracking & AI Sensitivity

Press the auto-framing/tracking button to activate or deactivate these AI features. When active, you can adjust the AI sensitivity (Low, Medium, High) by pressing the preset/AI sensitivity button. Higher sensitivity allows for quicker adjustments to movement.

3.2.3 Zoom, Pan, and Tilt

Use the dedicated zoom buttons (+/-) to digitally zoom in or out. The arrow buttons allow you to pan (move horizontally) and tilt (move vertically) the camera's view, especially useful when zoomed in.

3.2.4 OSD Menu Navigation

Press the menu button to access the On-Screen Display (OSD) menu. Use the arrow buttons to navigate through options like Exposure, Color, Image, Noise Reduction, and HDMI Video Format. The Home button selects options, and the Menu button returns to the previous screen.

3.2.5 Facial Enhancement

The facial enhancement feature can be toggled on/off via the remote. This setting improves qualities like exposure, contrast, or saturation to optimize your appearance, particularly in challenging lighting conditions.

3.2.6 Backlight Compensation (BLC)

Press the BLC button to activate or deactivate backlight compensation, which helps balance lighting when a strong light source is behind the subject.

3.2.7 Mute/Unmute

Press the microphone button to mute or unmute the webcam's built-in microphones.

4. Maintenance

To ensure optimal performance and longevity of your NexiGo Iris webcam, keep the lens clean using a soft, dry microfiber cloth. Avoid using harsh chemicals or abrasive materials that could scratch the lens or damage the device. Store the webcam in a cool, dry place when not in use.

5. Troubleshooting

5.1 Software Settings Not Working

If the webcam's settings software is not functioning correctly, visit the NexiGo website's support section for troubleshooting guides and updated software versions. Often, reinstalling the software or checking for conflicting applications can resolve the issue.

5.2 Excessive Noise in Video

If your video appears noisy or grainy, especially in low-light conditions, adjust the Noise Reduction settings in the OSD menu. The NexiGo Iris offers 2D and 3D Noise Reduction options to improve image clarity.
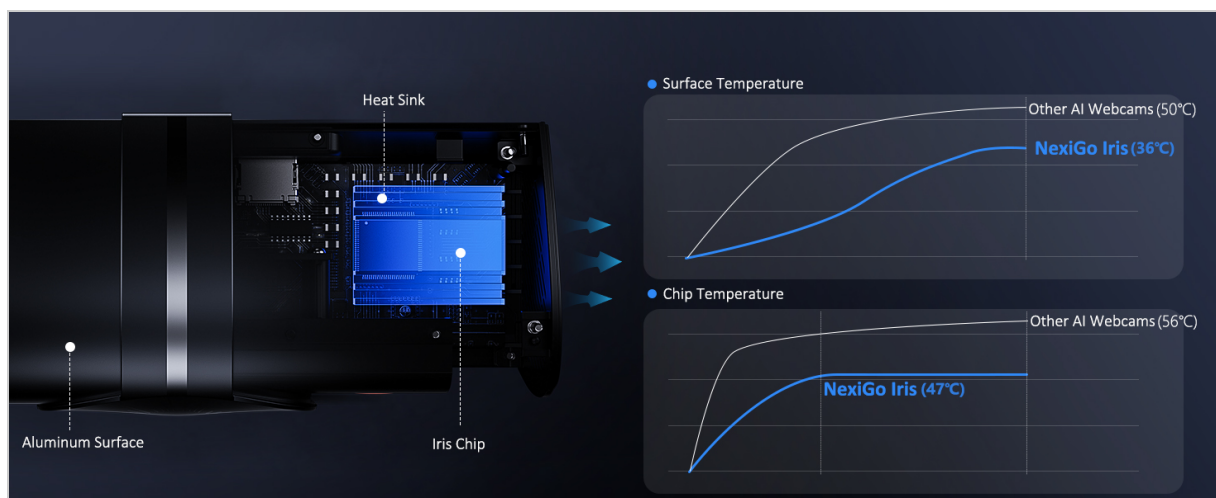

Figure 9: 3D Noise Reduction improves video clarity.

5.3 Remote Control Not Responding

Ensure the remote control has fresh batteries and that there are no obstructions between the remote and the webcam. If using multiple NexiGo cameras, verify that the remote's channel is correctly set to match the desired webcam (refer to the remote control section for channel setting instructions).

6. Specifications

Feature	Detail
Image Sensor	1/1.8-inch Sony STARVIS Sensor
Max Screen Resolution	UHD (4K)
Video Capture Resolution	4K
Lens	10-element all-glass lens
Connectivity Technology	HDMI, USB 3.0
USB Output	Up to 1080p at 60fps (uncompressed)
HDMI Output	Uncompressed 4K video
Microphones	Dual Omnidirectional Noise-Canceling Mics
AI Features	Auto Framing, Auto Tracking, PiP Mode
Memory	Onboard Flash Memory for 3 image settings
Item Weight	2.16 pounds
Product Dimensions	2.36 x 6.69 x 2.28 inches

Figure 10: Detailed specifications and comparison with other webcams.

7. What's in the Box

- NexiGo Iris Webcam
- Remote Control
- USB 3.0 Cable

- USB-C to USB-A Adapter

- User Manual

8. Warranty and Support

NexiGo offers a 30-day return policy for exchanges or refunds. The product also comes with lifetime technical customer support. For any technical assistance or warranty claims, please contact NexiGo customer service.

	Ours	Other Webcam-Brio	Other Webcam-Insta360	Other Webcam-Opal C1
Sensor	1/1.8" Sony STARVIS Sensor	Unknown 1/4" Sensor	1/2" Sony Sensor	1/2.3" Sony Sensor
Resolution	4K@30fps, 1080p@60fps	4K@30fps, 1080p@60fps	4K@25FPS, 1080P@30FPS	4K@30fps, 1080p@60fps
Video Codec	Uncomprssed YUY2/NV12: 1080P@60FPS and below; MJPEG/H264 for all resolutions;	Uncomprssed YUY2/NV12: 1080P@30FPS and below; MJPEG for all resolutions.	MJPEG: 4K@25FPS, 1080P@30FPS H264: 4K@30FPS, 1080P@30FPS	Uncompressed NV12: 1080p@60FPS and below; MJPEG/H264 for all resolutions
HDMI Output	Yes, uncompressed	No	No	No
AI Feature	AI Chip Embedded	No	AI Chip Embedded	AI Chip Embedded
Autoframing	Yes, adjustable framing	No	Yes, fixed framing	Yes, fixed framing
Auto Tracking	Yes	No	Yes	No
Picture in Picture	Yes, with multiple presets	No	Yes, limited one Whiteboard mode	No
Flash Memory	Hardware and Software based	No	No	No
OSD Menu	Yes	No	No	No
Voice Pickup	up to 20 feet	up to 4 feet	up to 10 feet	up to 10 feet
Digital Zoom	10X	5X	4X	5X
Remote Control	Yes	No	No	No

Figure 11: NexiGo customer support and warranty information.