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› ROCWARE RC16 4K Webcam User Manual

## ROCWARE DG-RC16-001

# ROCWARE RC16 4K Webcam User Manual

Model: DG-RC16-001 | Brand: ROCWARE

## 1. INTRODUCTION AND OVERVIEW

The ROCWARE RC16 is a high-performance 4K Ultra HD webcam designed for professional video conferencing, online teaching, streaming, and general computer use. It features a real-4K lens, a new generation 1/2.7-inch UHD CMOS sensor, and an effective pixel count of 8.29M, enabling clear visuals even in low-light conditions. The webcam incorporates advanced AI tracking and auto-framing technologies to keep subjects centered and in focus. It also includes an 8X digital zoom, a built-in omnidirectional noise-reduction microphone, and a physical privacy cover for enhanced security.

This manual provides detailed instructions for setting up, operating, and maintaining your ROCWARE RC16 webcam, along with troubleshooting tips and product specifications.

## 2. WHAT'S IN THE BOX

Upon unboxing your ROCWARE RC16 webcam, please ensure all the following components are present:

- ROCWARE RC16 4K Webcam
- USB 3.0 Cable (Type-C)
- Remote Control



*Image: The ROCWARE RC16 4K Webcam with its included remote control.*

### 3. KEY FEATURES

#### 3.1. 4K Ultra HD & 60fps Streaming

The RC16 webcam delivers real-4K ultra-high-definition video at 60 frames per second, ensuring crisp and smooth visuals. Its advanced 1/2.7-inch UHD CMOS sensor performs well in low-light environments, making it suitable for various lighting conditions during meetings and streaming sessions.

# 4K Ultra HD Imaging

Unlock Unlimited Creative Possibilities with Industry-Leading Driver Chips & Proprietary Algorithms



Image: Visual representation of 4K Ultra HD imaging capabilities, highlighting 8X digital zoom, AI algorithm, 2.7-inch HD sensor, and wide pan.

## 3.2. AI Tracking & Auto-Framing

Equipped with a unique hardware unit and AI technology, the webcam can track moving subjects and automatically adjust the image angle based on the detection area. This ensures you remain centered and in focus, providing a natural face-to-face meeting experience. The AI-powered auto-framing technology automatically frames the video to include all participants in a meeting.

# AI TRACKING

Operable in light down to 0.5 LUX (f/1.8)

Embedded NNE hardware unit, using deep learning technology, through the extraction of target features, no matter where the face is facing, can achieve smooth humanoid tracking.



**110°** wide view!



*Image: Diagram illustrating the AI tracking feature and the 110-degree wide field of view.*

# AI-Powered Auto-Framing Technology

Automatically frames the video according to the number of people in the meeting.



*Image: Examples of AI-powered auto-framing, showing how the camera adjusts to include all people in the frame.*

### 3.3. 8X Digital Zoom & Remote Control

The RC16 supports up to 8X digital zoom, allowing for precise adjustments to your view. An included remote control provides convenient access to functions such as volume control, webcam on/off, and zooming, even when you are away from your computer.

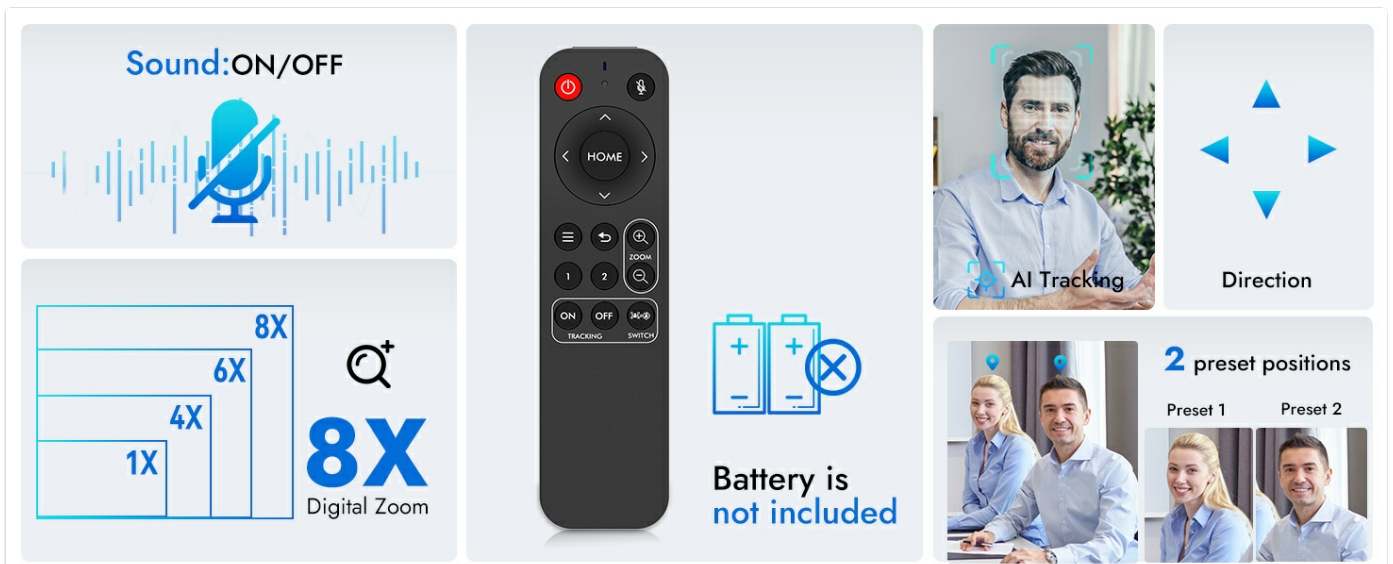


Image: Overview of the remote control's functions, including sound control, digital zoom levels, AI tracking, and preset positions.

### 3.4. Built-in Stereo Microphone with Noise Reduction

The webcam is equipped with a built-in omnidirectional noise-reduction microphone. This technology filters out background noise, ensuring your voice is clear and audible to your audience, making it ideal for various communication scenarios.

# NOISE CANCELLING

Pick up Sounds Up to 6 Meters Away



*Image: Visual representation of the noise-cancelling feature, showing the reduction of ambient sound.*

### 3.5. Physical Privacy Cover

For enhanced privacy and security, the ROCWARE RC16 includes a physical privacy cover. This allows you to physically block the camera lens when not in use, protecting your personal and professional space.

## with physical privacy cover

Cover to protect your privacy



*Image: The webcam featuring its physical privacy cover for user security.*

## 4. SETUP INSTRUCTIONS

The ROCWARE RC16 webcam is designed for plug-and-play convenience, requiring no additional drivers or software for basic functionality.

### 1. Mounting the Webcam:

The webcam features a generic mounting clip that allows for easy installation on various surfaces. You can securely attach it to the top of a monitor, laptop screen, TV, or mount it on a tripod (tripod not included).

### 2. Connecting to Your Computer:

Connect the provided Type-C USB cable to the webcam and then to an available USB 3.0 or USB 2.0 port on your computer. The webcam will be automatically recognized by your operating system.

### 3. System Compatibility:

The webcam is compatible with a wide range of operating systems, including Windows XP (SP2/SP3), Windows Vista/7/8/10, and Mac OS. It is suitable for use with popular applications such as Skype, Zoom, Microsoft Teams, Google Meet, and YouTube for video calls, conferences, and recording.

## 5. OPERATING INSTRUCTIONS

Once connected, the ROCWARE RC16 webcam is ready for use. Here are key operational aspects:

### • Activating the Webcam:

Open your preferred video conferencing or streaming application (e.g., Zoom, Skype). Select the ROCWARE RC16 as your video and audio input device within the application's settings.

### • Using the Remote Control:

The included remote control allows for convenient adjustments. Use it to:

- Turn the webcam on/off.
- Adjust volume (for the built-in microphone).
- Control the 8X digital zoom.
- Toggle AI Tracking and Auto-Framing modes.
- Access and set preset camera positions.

## RC16 Remote Control

With exquisite infrared remote control and exclusive software, automatic box selection and humanoid tracking can be started with one button, and preset position.



Image: The RC16 remote control in use, showing its interaction with the webcam's settings interface on a monitor.

- **AI Tracking and Auto-Framing:**

These features automatically adjust the camera's field of view to keep you or multiple participants centered. Ensure these modes are enabled via the remote control or software settings for optimal performance.

- **Privacy Cover Usage:**

When the webcam is not in use, slide the physical privacy cover over the lens to ensure your privacy.

## 6. MAINTENANCE

Proper maintenance ensures the longevity and optimal performance of your ROCWARE RC16 webcam.

- **Cleaning the Lens:**

Gently wipe the camera 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.

- **Cleaning the Body:**

Wipe the webcam body with a dry or slightly damp soft cloth. Do not use excessive moisture or immerse the device in water.

- **Storage:**

When not in use for extended periods, store the webcam in a cool, dry place, away from direct sunlight and extreme temperatures. Ensure the privacy cover is closed.

## 7. TROUBLESHOOTING

If you encounter issues with your ROCWARE RC16 webcam, refer to the following common problems and solutions:

Problem	Possible Cause / Solution
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<b>Problem</b>	<b>Possible Cause / Solution</b>
<b>No Image/Video Output</b>	<ul style="list-style-type: none"> <li>◦ Ensure the USB cable is securely connected to both the webcam and the computer.</li> <li>◦ Try a different USB port on your computer.</li> <li>◦ Verify that the webcam is selected as the video input device in your application settings.</li> <li>◦ Check if the physical privacy cover is open.</li> <li>◦ Restart your computer.</li> </ul>
<b>Poor Video Quality (Grainy, Blurry)</b>	<ul style="list-style-type: none"> <li>◦ Ensure adequate lighting in your environment. The webcam performs best with sufficient light.</li> <li>◦ Clean the camera lens with a soft, lint-free cloth.</li> <li>◦ Check your application's video settings to ensure 4K resolution is selected if available.</li> <li>◦ Ensure your computer's hardware meets the requirements for 4K video processing.</li> </ul>
<b>No Audio Input / Poor Audio Quality</b>	<ul style="list-style-type: none"> <li>◦ Verify that the ROCWARE RC16 microphone is selected as the audio input device in your application and system sound settings.</li> <li>◦ Ensure the microphone is not muted via the remote control or software.</li> <li>◦ Reduce background noise in your environment.</li> </ul>
<b>AI Tracking / Auto-Framing Not Working</b>	<ul style="list-style-type: none"> <li>◦ Ensure these features are enabled via the remote control.</li> <li>◦ Ensure you are within the optimal range and lighting conditions for the AI to detect subjects.</li> </ul>

## 8. SPECIFICATIONS

<b>Feature</b>	<b>Detail</b>
<b>Brand Name</b>	ROCWARE
<b>Model Number</b>	DG-RC16-001
<b>Video Capture Resolution</b>	4K
<b>Photo Sensor Technology</b>	CMOS
<b>Connectivity Technology</b>	USB (USB 3.0/2.0 compatible)
<b>Field of View (FOV)</b>	110° Wide-View
<b>Digital Zoom</b>	8X
<b>Microphone</b>	Built-in Omnidirectional Noise Reduction Microphone

Feature	Detail
Special Features	Auto Framing & AI Tracking, Low-light performance, 3A Algorithmic Microphone, Remote Control, Physical Privacy Cover
Color	Black
Item Weight	11.7 ounces
Product Dimensions	1.47 x 4.65 x 1.22 inches

## 9. WARRANTY AND SUPPORT

For warranty information and technical support, please refer to the documentation included with your product or visit the official ROCWARE website. If you require assistance with setup, operation, or troubleshooting beyond the scope of this manual, please contact ROCWARE customer service.

Additional protection plans may be available for purchase through your retailer to extend coverage beyond the standard manufacturer's warranty.