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> [Inwerang 4K 8MP Dual Lens PoE IP Security Camera User Manual](#)

Inwerang 4K Dual Lens Camera

Inwerang 4K 8MP Dual Lens PoE IP Security Camera User Manual

Model: 4K Dual Lens Camera

Brand: Inwerang

PRODUCT OVERVIEW

The Inwerang 4K 8MP Dual Lens PoE IP Security Camera offers advanced surveillance capabilities with its unique dual-lens design, providing an ultra-wide 180-degree panoramic view. This camera is designed for both indoor and outdoor use, featuring robust construction and intelligent detection features to enhance your security system.



Figure 1: Front view of the Inwerang 4K 8MP Dual Lens PoE IP Security Camera, highlighting its dual lens configuration.

Key features include 4K resolution for clear imaging, full color and IR2.0 night vision for enhanced visibility in low-light conditions, two-way audio communication, and smart human detection to minimize false alarms. Its Power over Ethernet (PoE) capability simplifies installation by delivering both power and data through a single cable.



 4K Ultra HD	 Intelligent Detection	 Full - Color	 180° Panoramic
 Dual Lens 4K 8MP	 Intelligent Dual Light Source	 Two Way Talk	 Micro TF Card Up To 256G
 Full Color 24 Hours Day	 IP66 Waterproof	 Human Motion Detection	 PoE Networking

Figure 2: Overview of key features including 4K Ultra HD, Intelligent Detection, Full-Color, 180° Panoramic view, Dual Lens 4K 8MP, Intelligent Dual Light Source, Two Way Talk, Micro TF Card support, Full Color 24 Hours Day, IP66 Waterproof, Human Motion Detection, and PoE Networking.

SETUP AND INSTALLATION

This camera supports Power over Ethernet (PoE) for simplified installation, requiring only a single Ethernet cable for both power and data transmission. It is compatible with various Network Video Recorders (NVRs) and software.

Connection Methods

The camera can be connected to your network using a PoE switch or directly to a compatible NVR. Ensure your network infrastructure supports PoE (802.3af) if you plan to use this method.



Figure 3: Diagram illustrating various network IP camera connection methods, including connecting to a PoE switch, directly to an NVR, or an NVR with a separate power adapter.

1. **PoE Switch Connection:** Connect the camera's RJ45 port to a PoE switch LAN port. Connect the PoE switch to your router's LAN port. Access the camera via PC or mobile app.
2. **NVR Connection (PoE NVR):** Connect the camera's RJ45 port to a PoE NVR port. Connect the NVR's HDMI/VGA output to a monitor. Connect the NVR to your router's LAN port. Access the camera via PC or mobile app.
3. **NVR Connection (Non-PoE NVR):** Connect the camera's RJ45 port to your router's LAN port. Connect the NVR to your router's LAN port. Ensure the camera is powered via a 12V power adapter (not included). Access the camera via PC or mobile app.

For detailed setup and configuration, refer to the specific instructions provided with your NVR or surveillance software (e.g., iVMS-4200, Hik-Connect, Blue Iris, iSpy).

OPERATING INSTRUCTIONS

1800 Ultra-Wide Viewing Angle

The dual 2.8mm lenses provide a seamless 180-degree panoramic view, covering a significantly wider area than traditional single-lens cameras. This reduces the need for multiple cameras in a single location.

Dual Lens Security Camera 4K/8MP

(180° Panoramic Ultra Viewing Angle)



Figure 4: Illustration demonstrating the 180-degree panoramic ultra-viewing angle provided by the dual-lens security camera, showing a much wider field of view compared to standard cameras.

Night Vision Modes

The camera offers advanced night vision capabilities, including full-color night vision and IR2.0 infrared night vision. You can configure the camera to switch between modes based on lighting conditions or your preference.

- **Full Color Night Vision:** Utilizes built-in spotlights to provide vivid, full-color images even in very low light (0.05 lux @ F1.6).
- **IR2.0 Night Vision:** Uses infrared light for clear black-and-white images in complete darkness.
- **Smart Mode:** When human or vehicle detection occurs at night, the dual lights will activate, and the video will switch to color mode, capturing more details.

FULL COLOR/IR2.0 NIGHT VISION

2x Spotlights

2x Infrared light

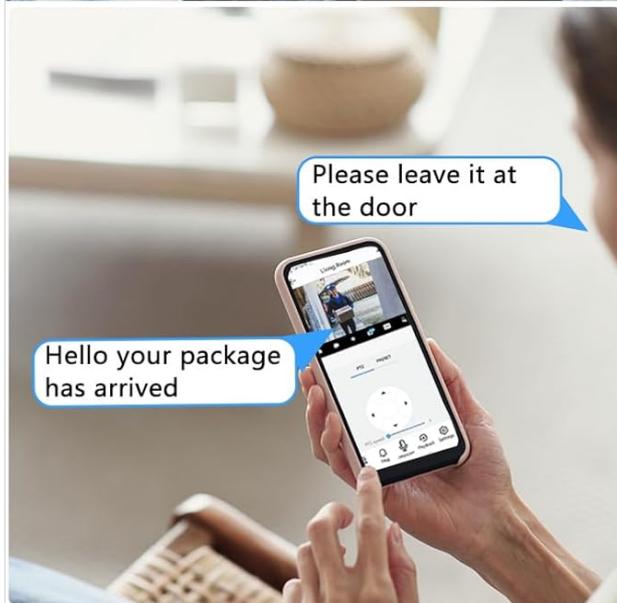
Color: 0.05 lux @(F1.6)



Figure 5: Comparison of Full Color/IR2.0 Night Vision, showing the effect of 2x Spotlights and 2x Infrared lights, and how the dual-lens camera provides a wider panoramic view at night compared to standard cameras.

Two-Way Talk

Equipped with a built-in speaker and microphone, the camera enables two-way audio communication. This allows you to speak with visitors, delivery personnel, or deter unwanted intruders directly through the camera via your connected device.



Two Way Talk

Support two way talk to realize online voice calls. Record video while also recording important audio files to better protect your safety.

Figure 6: Demonstration of the two-way talk feature, showing a user communicating with someone at their door through the camera.

Smart Human Detection

The camera utilizes deep learning algorithms to accurately identify human figures, reducing false alarms triggered by animals, falling leaves, or other non-human movements. This ensures you receive relevant alerts.

MAINTENANCE

Cleaning the Camera

To ensure optimal performance and image clarity, periodically clean the camera lenses and housing. Use a soft, damp cloth to gently wipe away dust and dirt. Avoid abrasive cleaners or solvents that could damage the lens coating or camera body.

Weather Resistance

The camera features an IP67-rated full metal housing, providing excellent protection against dust and water ingress. It is

designed to operate reliably in a wide range of temperatures, from -300C to +850C (-220F to +1850F).

Local Storage

The camera includes a built-in Micro SD card slot, supporting cards up to 256GB for local video storage. This provides a reliable backup or primary recording solution without requiring an NVR.

The diagram is divided into two main sections. The top section compares two streaming methods: 'Smooth H.265+ Stream' and 'Buffered H.264 Stream'. The 'Smooth H.265+ Stream' image shows a play button icon, while the 'Buffered H.264 Stream' image shows a loading spinner icon. To the right, a 'Bandwidth Consumption' chart shows a 70% reduction in consumption for the H.265+ stream compared to the H.264 stream. The bottom section, titled 'Multiple Recording Options (No Extra Fees)', features three blue boxes: 'supports up to 256GB Micro sD card (not included)', 'Work with HIKVISION NVR', and 'Work with FTP'. Below these boxes, a hand is shown inserting a 256GB Micro SD card into the camera's slot. To the left, a monitor, tablet, and smartphone display a street scene, indicating multi-device access to the recorded footage.

Figure 7: Diagram illustrating multiple recording options, including support for up to 256GB Micro SD card (not included), compatibility with HIKVISION NVR, and FTP server integration.

TROUBLESHOOTING

Common Issues and Solutions

Problem	Possible Cause	Solution
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Problem	Possible Cause	Solution
Camera constantly loses connection.	<ul style="list-style-type: none"> • Unstable network connection. • Insufficient power supply (if not using PoE). • Faulty Ethernet cable or port. • IP address conflict. 	<ul style="list-style-type: none"> • Ensure stable network connectivity. Test network speed and reliability. • If using a 12V power adapter, ensure it provides sufficient power. • Check Ethernet cable for damage and ensure secure connections. Try a different port or cable. • Verify that the camera has a unique IP address on your network. • Restart the camera and your network equipment (router, switch, NVR).
No image or black screen.	<ul style="list-style-type: none"> • No power to the camera. • Incorrect network configuration. • Lens cap still on (if applicable). 	<ul style="list-style-type: none"> • Verify power supply (PoE or 12V adapter). Check power indicator light on camera/switch. • Confirm correct IP address, subnet mask, and gateway settings. • Remove any protective film or lens cap.
Poor image quality at night.	<ul style="list-style-type: none"> • Infrared lights obstructed. • Incorrect night vision mode selected. • Excessive ambient light interference. 	<ul style="list-style-type: none"> • Ensure nothing is blocking the infrared LEDs or spotlights. • Adjust night vision settings in the camera's interface (e.g., switch to Full Color or IR mode). • Minimize external light sources that might cause glare or overexposure.

If you encounter issues not listed here or require further assistance, please contact Inwerang customer support.

SPECIFICATIONS

Feature	Detail
Model Name	4K Dual Lens Camera
Indoor/Outdoor Usage	Outdoor, Indoor
Video Capture Resolution	4K (3840x2160)
Viewing Angle	180 Degrees
Connectivity Technology	Wired (Ethernet, PoE)
Power Source	Corded Electric (PoE 802.3af)
Compatible Devices	Network Video Recorder (NVR), Blue Iris, iSpy, NAS Storage, PC Client & Mobile APP

Feature	Detail
Special Features	HD Resolution, Night Vision (Full Color/IR2.0), 2-Way Talk, Human Detection, IP67 Weatherproof
Storage	Built-in SD card slot (up to 256GB)
Product Dimensions	5.4 x 4.3 x 5.4 inches
Item Weight	1.39 pounds
Operating Temperature	-300C to +850C (-220F to +1850F)
Included Components	1pc Camera
Manufacturer	Inwerang
UPC	768531651688

WARRANTY AND SUPPORT

This Inwerang product is manufactured with high-quality standards. For any warranty claims or technical support, please contact Inwerang customer service directly. Details for contacting support are typically found on the manufacturer's website or included in the product packaging.

It is recommended to register your product upon purchase to facilitate any future support needs.

For additional protection, extended protection plans may be available through your retailer. Please refer to the terms and conditions of any such plans for coverage details.

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