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Inwerang IW-IF1324RWM5

Inwerang 5MP POE IP Fisheye Camera User Manual

Model: IW-IF1324RWM5
Brand: Inwerang

1. INTRODUCTION

This manual provides detailed instructions for the installation, operation, and maintenance of your Inwerang 5MP POE IP Fisheye Camera. This camera is designed for both indoor and outdoor surveillance, offering a wide 360-degree panoramic view with high-definition imaging and advanced features like Power over Ethernet (PoE) and infrared night vision.



Super HD high Premium
quality at 25fps.



H.265

Save storage and bandwidth
with H.265 compression



True wide dynamic
range up to 120dB



360°

360° Panoramic coverage and
night vision up to 49 feet



Built-in microphone
for audio monitoring

Figure 1.1: Inwerang 5MP POE IP Fisheye Camera with highlighted features.

2. PACKAGE CONTENTS

Please verify that all items are present and in good condition upon opening the package. If any items are missing or damaged, contact Inwerang customer support.

- Inwerang 5MP POE IP Fisheye Camera (1 unit)
- Mounting Screw Kit (screws, wall anchors)
- User Manual (this document)

3. PHYSICAL DESCRIPTION

The Inwerang 5MP POE IP Fisheye Camera features a compact, durable metal housing designed for versatile installation. Key components include the fisheye lens, infrared LEDs for night vision, and connectivity ports.



Figure 3.1: Camera components and dimensions.

- **1.4mm Fisheye Lens:** Provides a true 360-degree panoramic viewing angle, eliminating blind spots.
- **3Pcs Array IR-LEDs:** Enable infrared night vision up to 49 feet (15 meters) for clear monitoring in low-light or no-light conditions.
- **Built-in Microphone:** Supports one-way audio input for monitoring the environment.
- **RJ45 Port:** Ethernet port for network connection and Power over Ethernet (PoE) functionality.
- **DC 12V Power Port:** Optional power input for non-PoE setups.

4. SETUP AND INSTALLATION

Follow these steps to properly install and set up your Inwerang Fisheye Camera.

4.1 Mounting the Camera

1. **Choose a Location:** Select a suitable indoor or outdoor location that provides the desired viewing area. Ensure the surface is stable enough to support the camera.
2. **Mark Drill Holes:** Place the camera base against the mounting surface and use a pencil to mark the positions for the mounting screws and the cable hole.
3. **Drill Holes:** Use an appropriate drill bit to drill holes at the marked positions. For masonry or concrete, insert the provided wall anchors.
4. **Route Cables:** Pass the RJ45 Ethernet cable (and optional DC power cable) through the cable hole.
5. **Secure the Camera:** Align the camera with the drilled holes and use the provided screws to firmly attach the camera to the mounting surface.

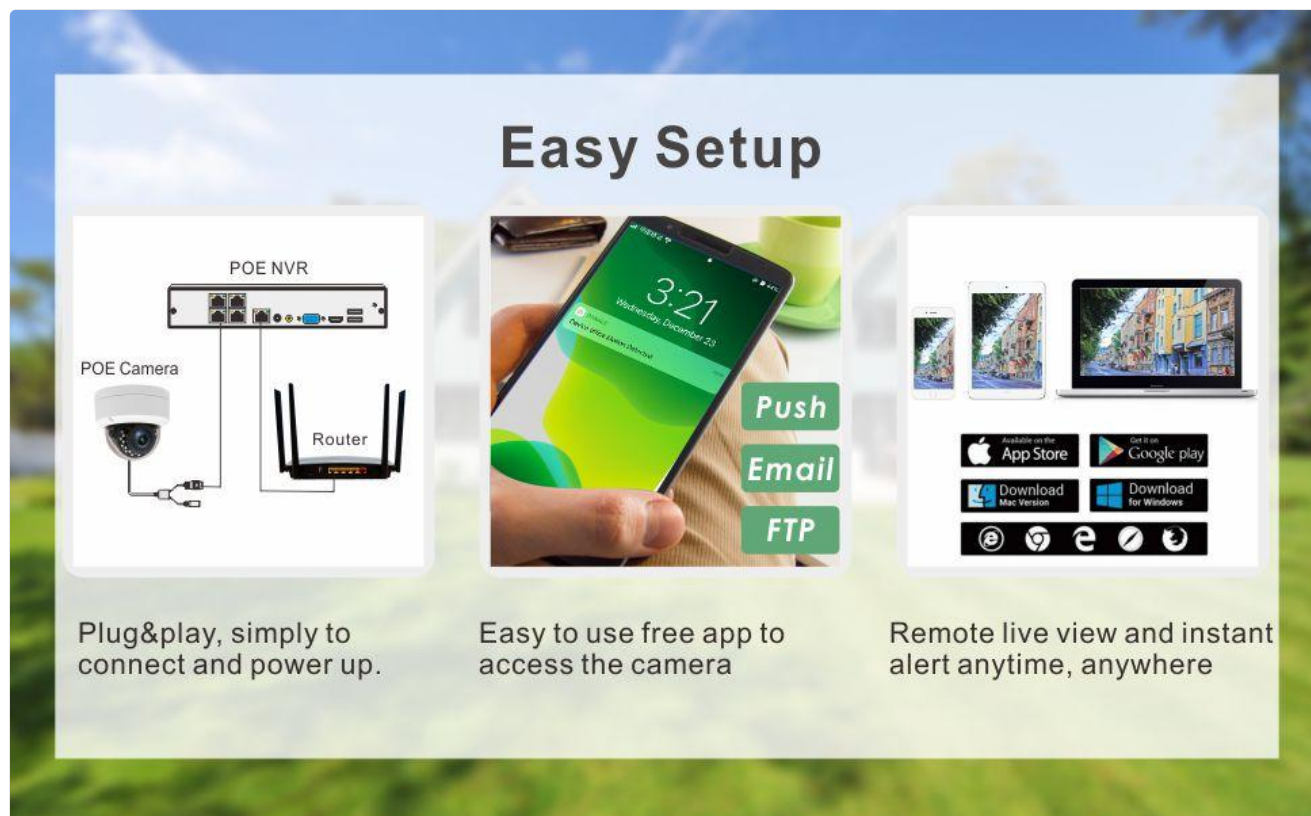


Figure 4.1: Easy setup diagram for the camera.

4.2 Power and Network Connection

The camera supports Power over Ethernet (PoE) for simplified installation, requiring only one Ethernet cable for both power and data transmission.

- **PoE Connection:** Connect one end of an Ethernet cable to the camera's RJ45 port and the other end to a PoE switch, PoE injector, or a compatible PoE NVR (e.g., Hikvision, LTS, EZVIZ). The camera will power on automatically.
- **Non-PoE Connection (Optional):** If not using PoE, connect a 12V DC power adapter (not included) to the DC 12V power port and connect the RJ45 port to your network router or NVR using a standard Ethernet cable.

4.3 Initial Configuration

The camera is designed for plug-and-play compatibility with many NVRs. For initial setup and advanced configurations, you may use client software or a web browser.

- **NVR Compatibility:** The camera is plug-and-play with Hikvision, LTS, and EZVIZ PoE NVRs. It also works with Dahua, Lorex, Uniview, TVT, and Raysharp NVRs after DHCP is enabled (default setting).
- **IP Search Tool:** Use the provided IP Search tool (Windows software) to locate the camera on your network and access its web interface for detailed settings.

5. OPERATING THE CAMERA

Once installed and configured, you can access and manage your camera's features through a compatible NVR, client software, or a smartphone application.

5.1 Live View and Recording

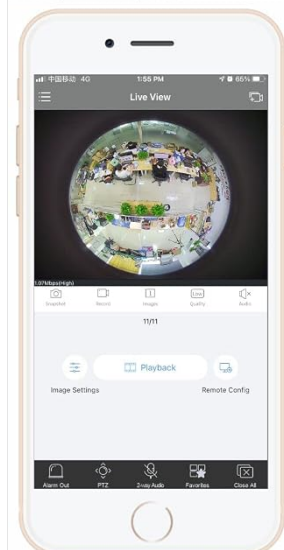
- **Panoramic View:** The 1.4mm fisheye lens provides a 360-degree panoramic view, allowing you to monitor a large area without blind spots.
- **High Definition:** Experience clear surveillance with 5MP (2592 x 1944) resolution at 25 frames per second.
- **Day and Night Vision:** The camera automatically switches between day (color) and night (black and white infrared) modes based on ambient light conditions. Infrared night vision extends up to 49 feet.



Figure 5.1: Day and Night Vision comparison.



1.11Mbps 36.5%(High)



360 Degree Panoramic View

1.4mm fisheye lens provides true 360° panorama viewing angle, promises no monitoring blind spots.



Figure 5.2: 360-degree panoramic view on a mobile device.

5.2 Audio Monitoring

The built-in microphone allows for one-way audio monitoring, providing additional situational awareness. This feature eliminates the need for a separate microphone.

5.3 Remote Access and Alerts

Access your camera's live feed and recordings remotely via the dedicated smartphone app or client software. Configure motion detection alerts to receive notifications via push, email, or FTP when activity is detected.

Video 5.1: Demonstration of the 5MP POE IP Panoramic Camera's day and night vision capabilities.

6. MAINTENANCE

Regular maintenance ensures optimal performance and longevity of your camera.

- **Cleaning:** Gently wipe the camera lens and housing with a soft, damp cloth. Avoid using harsh chemicals or abrasive materials that could scratch the lens or finish.
- **Firmware Updates:** Periodically check the Inwerang website or contact support for available firmware updates to enhance performance and security.
- **Environmental Protection:** The camera has an IP66 waterproof rating, making it suitable for outdoor use in various weather conditions. However, avoid direct high-pressure water jets.



Figure 6.1: IP66 Weatherproof Rating for outdoor use.

7. TROUBLESHOOTING

If you encounter issues with your camera, refer to the following common problems and solutions.

- **No Power/No Image:**
 - Ensure the PoE connection is active and functioning correctly, or that the 12V DC power adapter is properly connected and supplying power.

- Verify the Ethernet cable is securely connected to both the camera and the network device (NVR/switch).

• **Cannot Access Camera via Network:**

- Confirm the camera is connected to the same network as your viewing device.
- Use the IP Search tool to find the camera's IP address.
- Ensure DHCP is enabled on your NVR or network if not using a static IP.
- Check firewall settings on your network or computer that might be blocking access.

• **Poor Image Quality:**

- Clean the camera lens to remove any dust or smudges.
- Ensure there are no obstructions in the camera's field of view.
- Check network bandwidth; insufficient bandwidth can affect streaming quality.
- Verify camera settings for resolution and frame rate are appropriate for your network and storage.

• **Night Vision Not Working:**

- Ensure the area is sufficiently dark for the IR LEDs to activate automatically.
- Check if the IR LEDs are physically obstructed.
- Verify night vision settings in the camera's web interface or app.

For persistent issues, please contact Inwerang technical support.

8. SPECIFICATIONS

Feature	Specification
Model Number	IW-IF1324RWM5
Image Resolution	5MP (2592 x 1944) @ 25fps
Lens	1.4mm Fisheye Lens (360° Viewing Angle)
Video Compression	H.265/H.264/MJPEG
Night Vision Range	Up to 49 feet (15 meters)
Audio	Built-in Microphone (One-way talk)
Connectivity	PoE (Power over Ethernet), RJ45 10M/100M Ethernet
Power Supply	12V DC ± 10% / PoE (Optional)
Power Consumption	Less than 8W (with IR on)
Operating Conditions	-10 °C ~ 60 °C (14 °F ~ 140 °F)
Ingress Protection	IP66 (Waterproof)
Material	Metal

Feature	Specification
Dimensions (L x W x H)	5.12 x 5.12 x 2.13 inches
Weight	0.66 KG (1.45 lbs)
Network Protocols	HTTP, TCP/IP, IPv4, UPNP, RTSP, UDP, SMTP, NTP, DHCP, DNS, IP Filter, PPPOE, DDNS, IP Search
System Compatibility	P6S (Plug&Play with Hikvision, LTS, EZVIZ PoE NVRs; compatible with Dahua, Lorex, Uniview, TVT, Raysharp NVRs after DHCP enable)

9. WARRANTY AND SUPPORT

Inwerang is committed to providing high-quality products and excellent customer service.

9.1 Product Warranty

This Inwerang 5MP POE IP Fisheye Camera comes with a **1-year warranty** from the date of purchase. This warranty covers manufacturing defects and malfunctions under normal use. It does not cover damage caused by misuse, accidents, unauthorized modifications, or natural disasters.

9.2 Technical Support

For technical assistance, troubleshooting, or inquiries regarding the camera's SDK, please contact Inwerang customer support. We aim to respond to all questions within 24 hours.

Contact Information:

Please refer to the contact details provided on the product packaging or the official Inwerang website for the most up-to-date support information.

ASK A QUESTION ABOUT THIS MANUAL

Ask about setup, troubleshooting, compatibility, parts, safety, or missing instructions. Manuals+ will review the question and use this page's manual context to help answer it.

Name

Anonymous

Email

you@example.com

Question

Example: How do I reset this device or fix this error?

Details

Model number, symptoms, what you tried, or the section of the manual you are using.

Submit question

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