REOLINK Reolink Duo 2V PoE

REOLINK Duo 2V PoE IP Camera User Manual

Model: Duo 2V PoE
Brand: REOLINK

1. Product Overview

The REOLINK Duo 2V PoE IP Camera is an advanced security solution featuring 8MP ultra-high definition and a dual-lens design for a 180° panoramic view. It integrates cutting-edge AI for accurate person, vehicle, and animal detection, offering robust surveillance for various environments. Built with IK10 vandal-proof and IP67 weatherproof ratings, it ensures durability and reliable performance in challenging conditions. The camera supports multiple night vision modes, flexible customization, and versatile recording options.



Figure 1: REOLINK Duo 2V PoE IP Camera

2. What's in the Box

Upon unboxing your REOLINK Duo 2V PoE IP Camera, please verify that all components are present and in good condition. The standard package includes:

- REOLINK Duo 2V PoE IP Camera x 1
- Waterproof Lid x 1
- Pack of Screws x 1
- Mounting Template x 1

- 1m Ethernet Cable x 1
- Surveillance Sticker x 1
- Operational Instruction x 1
- Quick Start Guide x 1

Your browser does not support the video tag.

Video 1: Unboxing and Installation Guide for REOLINK 4K 8MP 180 Degree Dual-Lens PoE IP Camera. This video demonstrates the contents of the box and provides a visual guide for the installation process.

3. Setup and Installation

Proper installation is crucial for optimal performance and longevity of your camera. The REOLINK Duo 2V PoE camera is designed for outdoor use and ceiling mounting.

3.1 Pre-Installation Considerations

- **Avoid Direct Light:** Do not face the camera directly towards strong light sources (e.g., sun, bright spotlights) to prevent overexposure and image degradation.
- **Weather Protection:** While IP67 weatherproof, avoid placing the camera in positions where heavy rain or direct water spray can consistently hit and cover the lens, as this may temporarily obscure the view.
- **Operating Temperature:** Ensure the installation location's temperature remains within the camera's operating range of 14°F to 113°F (-10°C to 45°C).

3.2 Mounting the Camera

Tools required for installation typically include a drill, hammer, screwdriver, and the provided mounting template and screws.

1. **Prepare the Ceiling:** Find a suitable place on the ceiling. Stick the mounting template onto the ceiling and drill holes accordingly. Insert the drywall anchors into the holes.
2. **Remove Dome Cover:** Use the provided hex key to unscrew the dome cover from the camera base. Keep the protective film on the cover until installation is complete.
3. **Secure the Base:** Pass the network cable through the cable notch on the mount base. Secure the base to the ceiling using the provided screws.
4. **Adjust Viewing Angle:** Find the optimal viewing angle for the camera and adjust accordingly. The camera supports 360° horizontal and 57° vertical manual adjustments. Note that there is no software-controlled pan & tilt functionality.
5. **Attach Dome Cover:** Securely attach the dome cover back onto the camera base using screws. Remove the protective film.



Figure 2: Detailed view of REOLINK Duo 2V PoE components and dimensions.

3.3 Connectivity

The camera supports Power over Ethernet (PoE) for simplified installation, requiring only one Ethernet cable for both power and data. A DC 12V power input is also available as an alternative.



Figure 3: Connectivity options for the REOLINK Duo 2V PoE camera, showing both PoE and DC power setups.

4. Operating Instructions

4.1 Smart Detection

The camera features advanced AI capabilities to accurately detect persons, vehicles, and animals. This minimizes false alarms and ensures you receive relevant real-time alerts via app push notifications, email, or NVR buzzer. Motion clips can also be recorded and uploaded to FTP.

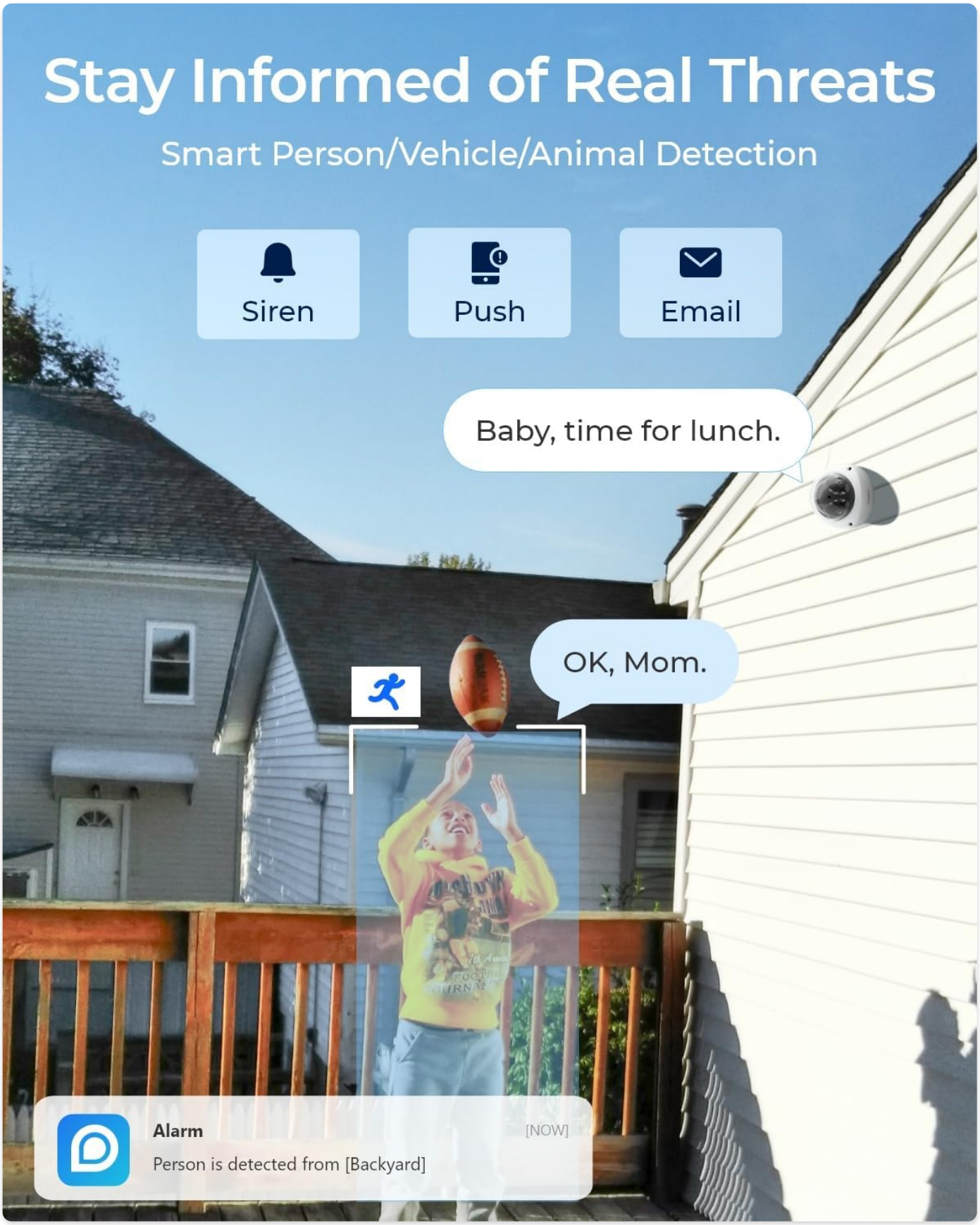


Figure 4: Smart detection features of the REOLINK Duo 2V PoE camera, identifying persons, vehicles, and animals.

4.2 Night Vision Modes

The camera offers flexible night vision options:

- **Infrared Night Vision:** Provides clear black and white images in complete darkness.
- **Color Night Vision:** Utilizes built-in spotlights to deliver full-color video even in low-light conditions. Spotlight activation can be customized (motion-triggered or scheduled).

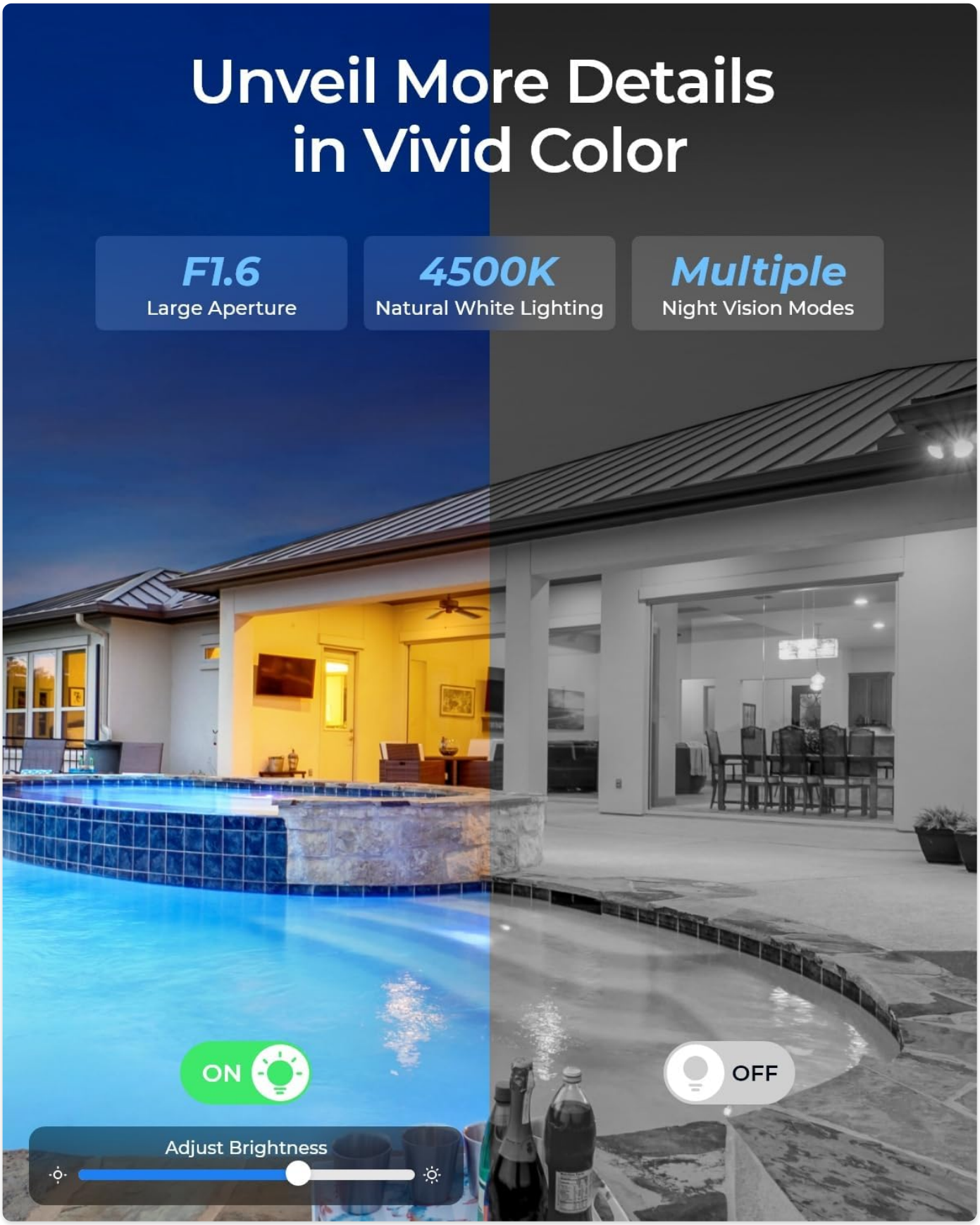


Figure 5: Comparison of color night vision and infrared night vision modes.

4.3 Two-Way Talk

Equipped with a built-in microphone and speaker, the camera enables two-way audio communication, allowing you to listen in and speak through the camera via the Reolink app.

4.4 Flexible Recording Options

Recordings can be stored in several ways:

- **MicroSD Card:** Supports up to 256GB for local storage.
- **Reolink NVR:** Compatible with specific Reolink NVR models (N7MB01/ N6MB01/ N5MB01/ H3MB18/ N2MB02/ N3MB01) under the latest firmware version.
- **FTP/NAS:** Upload motion clips to an FTP server or Network Attached Storage.

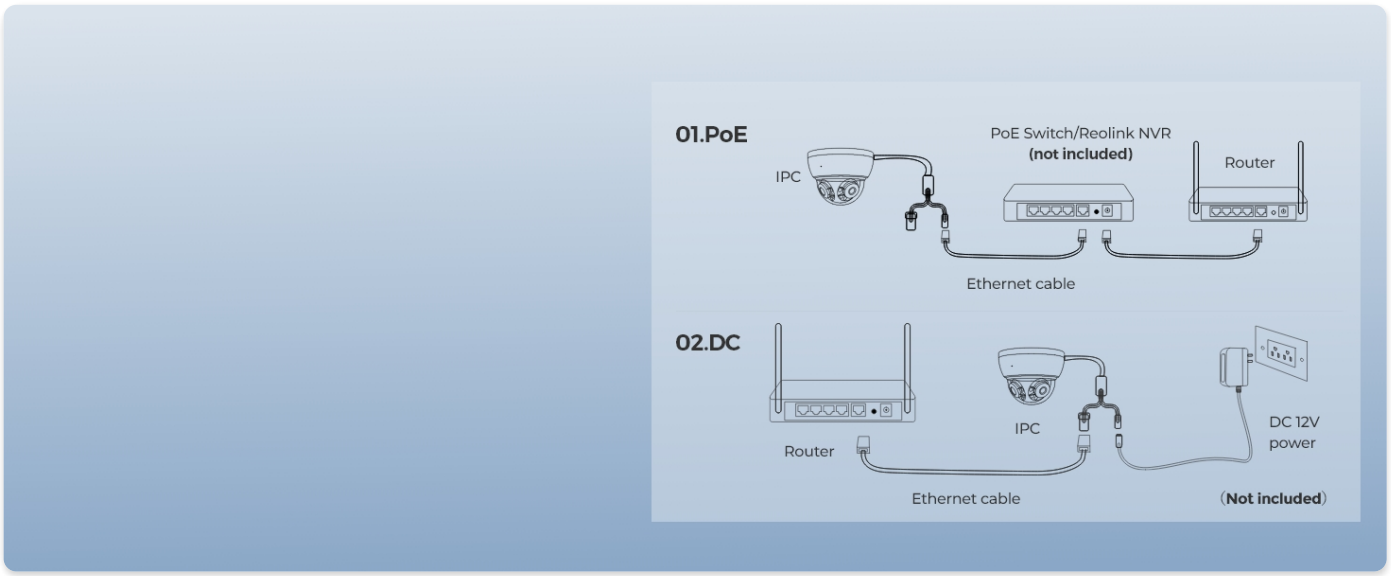


Figure 6: Various storage options available for the REOLINK Duo 2V PoE camera.

4.5 Multi-Platform Access

Access your camera feed and settings from multiple devices using the Reolink App (iOS/Android) or desktop client. This allows for smart playback and multi-user access.

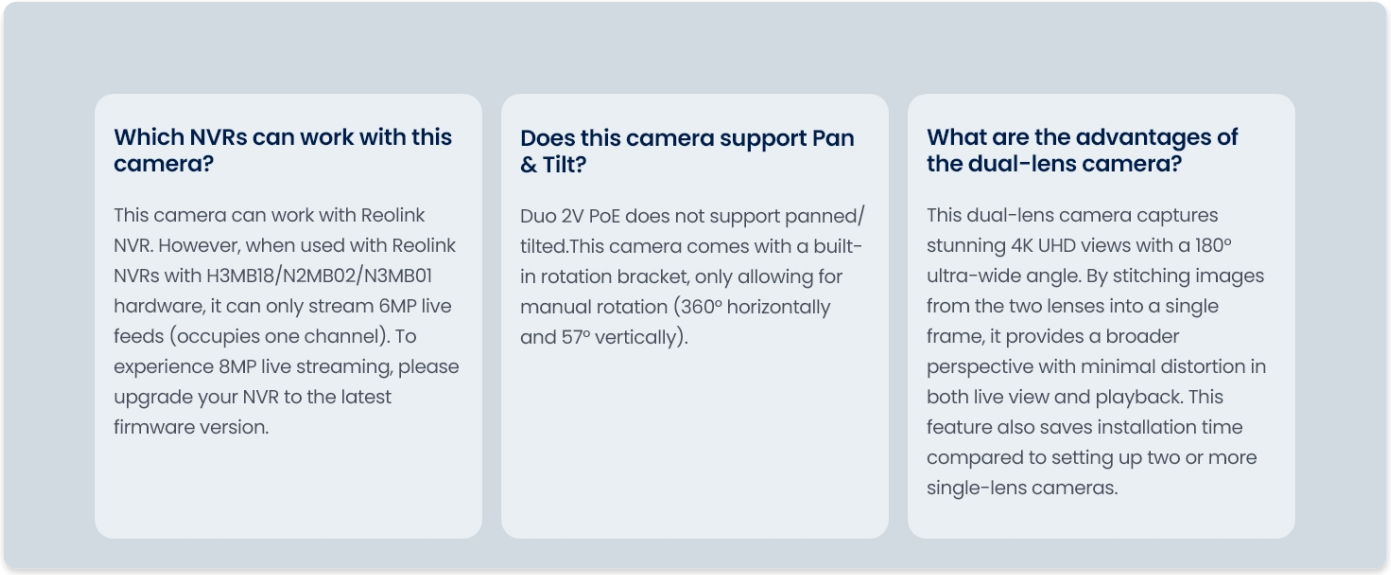


Figure 7: Access your camera from various platforms including mobile and desktop.

5. Maintenance

- **Cleaning:** Regularly clean the camera's dome and lens with a soft, damp cloth to ensure clear image quality. Avoid abrasive cleaners.
- **Firmware Updates:** Keep your camera's firmware updated to the latest version to ensure optimal performance, security, and access to new features. Updates can typically be managed through the Reolink app or client software.

- **Cable Inspection:** Periodically inspect the network cable and power connections for any signs of wear or damage, especially in outdoor installations.

6. Troubleshooting

- **Camera Offline:** If the camera frequently goes offline, check the network cable connection, ensure the PoE switch/NVR is functioning correctly, and verify network stability. A power cycle (unplugging and replugging the camera) may resolve temporary connectivity issues.
- **NVR Compatibility:** The Duo 2V PoE camera is compatible with specific Reolink NVR hardware (N7MB01/ N6MB01/ N5MB01/ H3MB18/ N2MB02/ N3MB01). Ensure your NVR has the latest firmware version for full 8MP live streaming and dual-lens viewing.
- **Image Distortion:** Due to the 180° panoramic view, some image distortion may occur, especially at the edges of the field of view. This is inherent to wide-angle lenses. Adjust camera placement to minimize distortion in critical areas.
- **Stripped Screws:** When removing or attaching the dome cover, use appropriate tools and apply gentle, even pressure to avoid stripping the screws. If screws are stripped, contact customer support for replacement parts.

7. Specifications

Feature	Specification
Model Name	Duo 2V PoE
Indoor/Outdoor Usage	Outdoor
Video Capture Resolution	4K (8MP)
Viewing Angle	180 Degrees (Horizontal)
Frame Rate	20 frames_per_second
Night Vision Range	30 Meters
Connectivity Protocol	Ethernet (PoE)
Power Source	Corded Electric (PoE or 12V DC)
Water Resistance Level	Waterproof (IP67)
Vandal-Proof Rating	IK10
Storage Support	MicroSD card (up to 256 GB), Reolink NVR, FTP/NAS
Dimensions (L x W x H)	5.43 x 5.43 x 3.94 inches
Item Weight	2.27 pounds
Material	Aluminum

8. Warranty and Support

8.1 Warranty Information

REOLINK products typically come with a limited warranty. Please refer to the warranty card included in your product

packaging or visit the official REOLINK website for detailed warranty terms and conditions.

8.2 Customer Support

For technical assistance, troubleshooting, or product inquiries, please utilize the following resources:

- **Official User Guide (PDF):** Download User Guide
- **REOLINK App:** The REOLINK App provides comprehensive control and monitoring features, as well as access to support resources.
- **REOLINK Official Website:** Visit www.reolink.com for FAQs, troubleshooting guides, and contact information for customer service.

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

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

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