REOLINK RLC-810A

REOLINK RLC-810A 4K/8MP Security PoE IP Camera User Manual

Model: RLC-810A | Brand: REOLINK

1. Product Overview

The REOLINK RLC-810A is a 4K/8MP Ultra HD PoE IP camera designed for comprehensive security surveillance. It features advanced human, vehicle, and pet detection capabilities, minimizing false alarms. With Power over Ethernet (PoE) technology, installation is simplified, requiring only a single network cable for both power and data transmission. The camera supports remote access via the Reolink App and Client, offering smart playback and real-time motion alerts. It also includes time-lapse functionality and robust night vision for 24/7 monitoring.



Figure 1.1: REOLINK RLC-810A 4K PoE IP Camera. This image displays the main view of the white bullet-style camera, highlighting its sleek design and outdoor-ready construction.

What's Included in the Box



Figure 1.2: Contents of the REOLINK RLC-810A package. The image shows the RLC-810A camera, a network cable, and a mounting template, indicating a straightforward setup process.

Camera Components

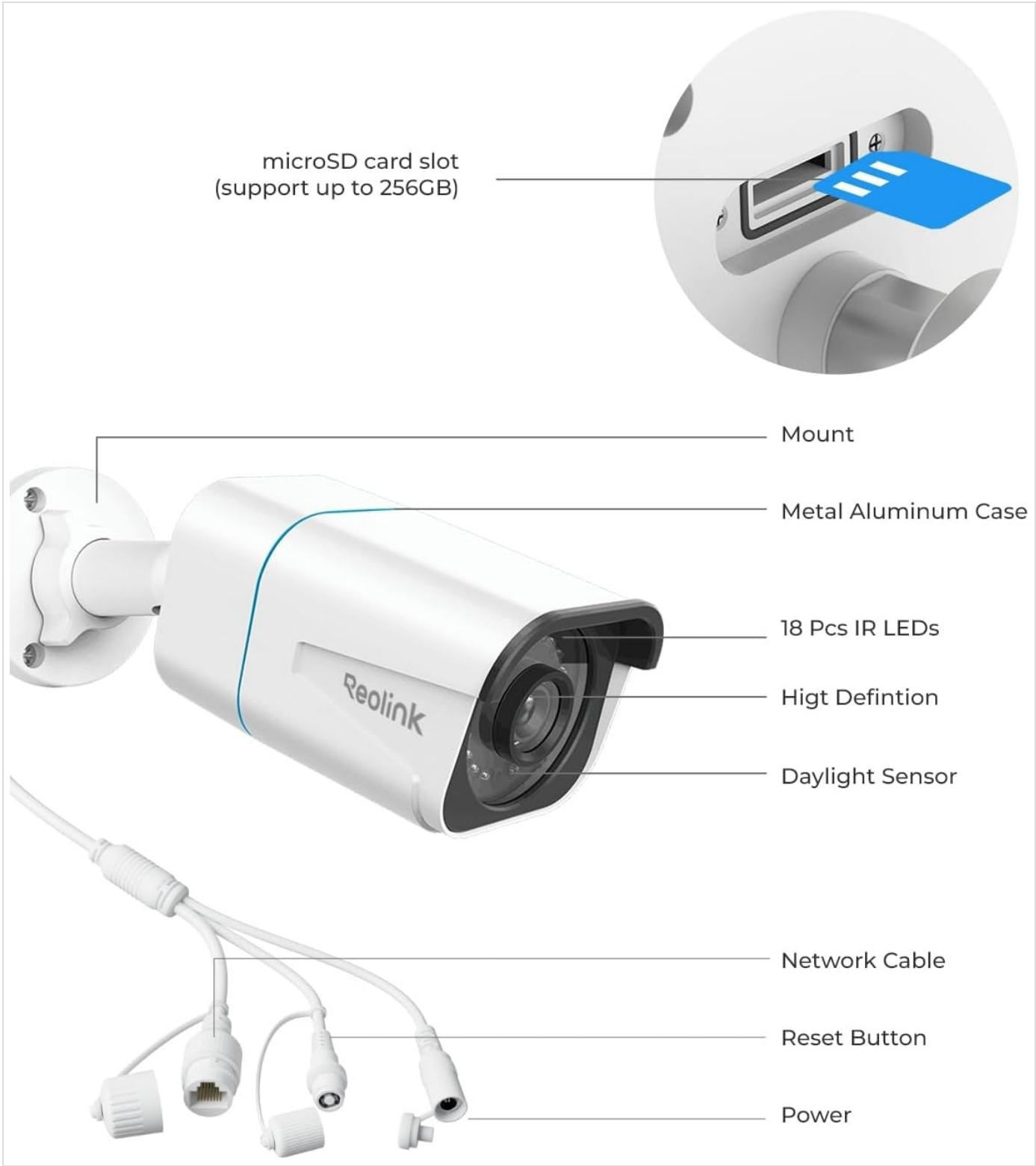


Figure 1.3: Detailed diagram of the RLC-810A camera components. This illustration points out key features such as the microSD card slot, mount, metal aluminum case, IR LEDs, high definition lens, daylight sensor, network cable, reset button, and power input.

2. Setup and Installation

The RLC-810A camera utilizes Power over Ethernet (PoE) technology, simplifying installation by delivering both power and data through a single Ethernet cable. This allows for flexible placement without the need for a separate power outlet near the camera.

PoE Connection Diagram

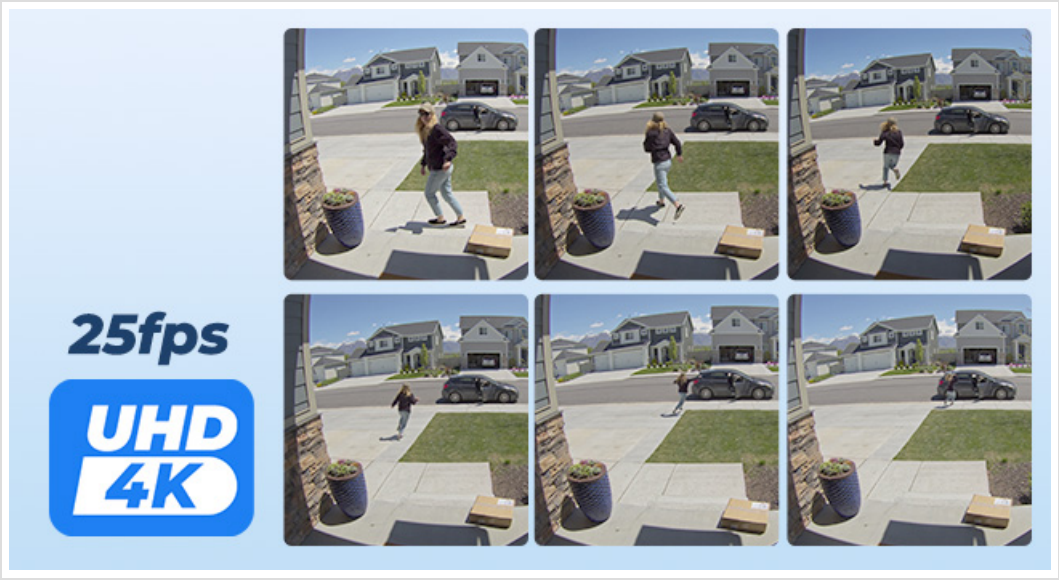


Figure 2.1: Diagram illustrating PoE installation. The image shows the RLC-810A camera connected to a PoE switch via an Ethernet cable, demonstrating how stable data transport and power are supplied through a single connection.

Initial Setup Steps:

1. **Connect the Camera:** Connect the RLC-810A camera to a PoE NVR (Network Video Recorder) or a PoE switch using an Ethernet cable. Ensure the cable is securely connected to both the camera and the NVR/switch.
2. **Power On:** Once connected, the camera will power on automatically via the PoE connection.
3. **Download Reolink App/Client:** For initial setup and configuration, download the official Reolink App on your smartphone or the Reolink Client software on your computer.
4. **Add Device:** Open the app/client and follow the on-screen instructions to add your RLC-810A camera. This typically involves scanning a QR code on the camera or manually entering its UID.
5. **Configure Settings:** Adjust camera settings such as video resolution, motion detection zones, alert preferences, and recording schedules through the app/client.

Mounting Considerations:

- **Location:** Choose a mounting location that provides the desired viewing angle and is within range of your Ethernet cable. Consider areas that offer a clear view of entry points or high-traffic zones.
- **Height:** Mount the camera at an appropriate height to prevent tampering and ensure optimal detection range.
- **Weather Protection:** While the RLC-810A is designed for outdoor use with an IP67 rating, ensure the cable connections are properly sealed and protected from direct exposure to extreme weather conditions.

3. Operating the Camera

Remote Access and Live View

Access your camera's live feed and recorded footage from anywhere using the Reolink App on your smartphone or the Reolink Client on your computer. This allows for real-time monitoring and peace of mind.

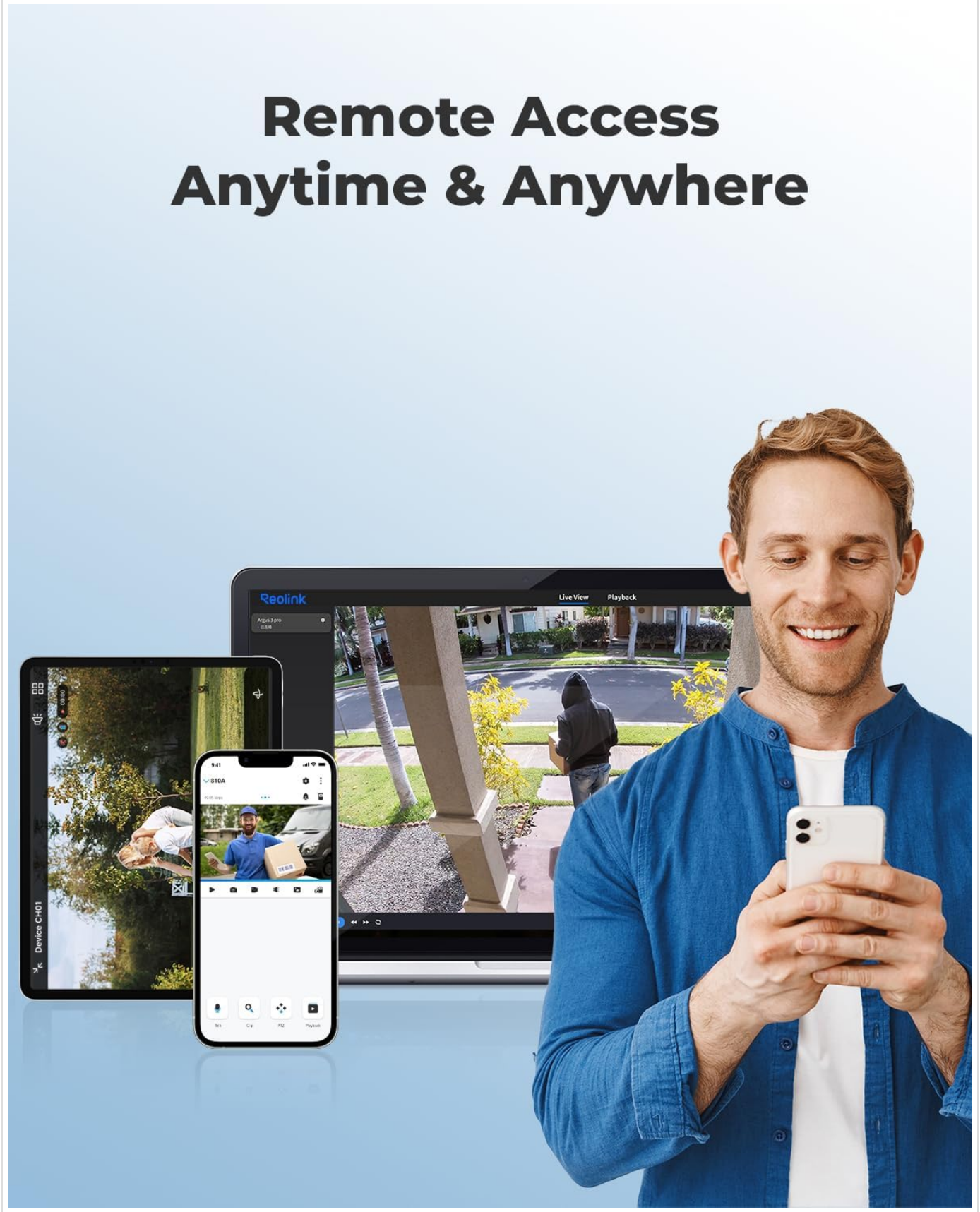


Figure 3.1: Remote access to the camera feed via various devices. The image shows a person viewing the camera feed on a smartphone, tablet, and laptop, emphasizing the flexibility of remote monitoring.

Smart Detection and Alerts

The RLC-810A features intelligent detection capabilities, distinguishing between humans, vehicles, and pets. This significantly reduces false alarms triggered by irrelevant movements like swaying branches or insects.

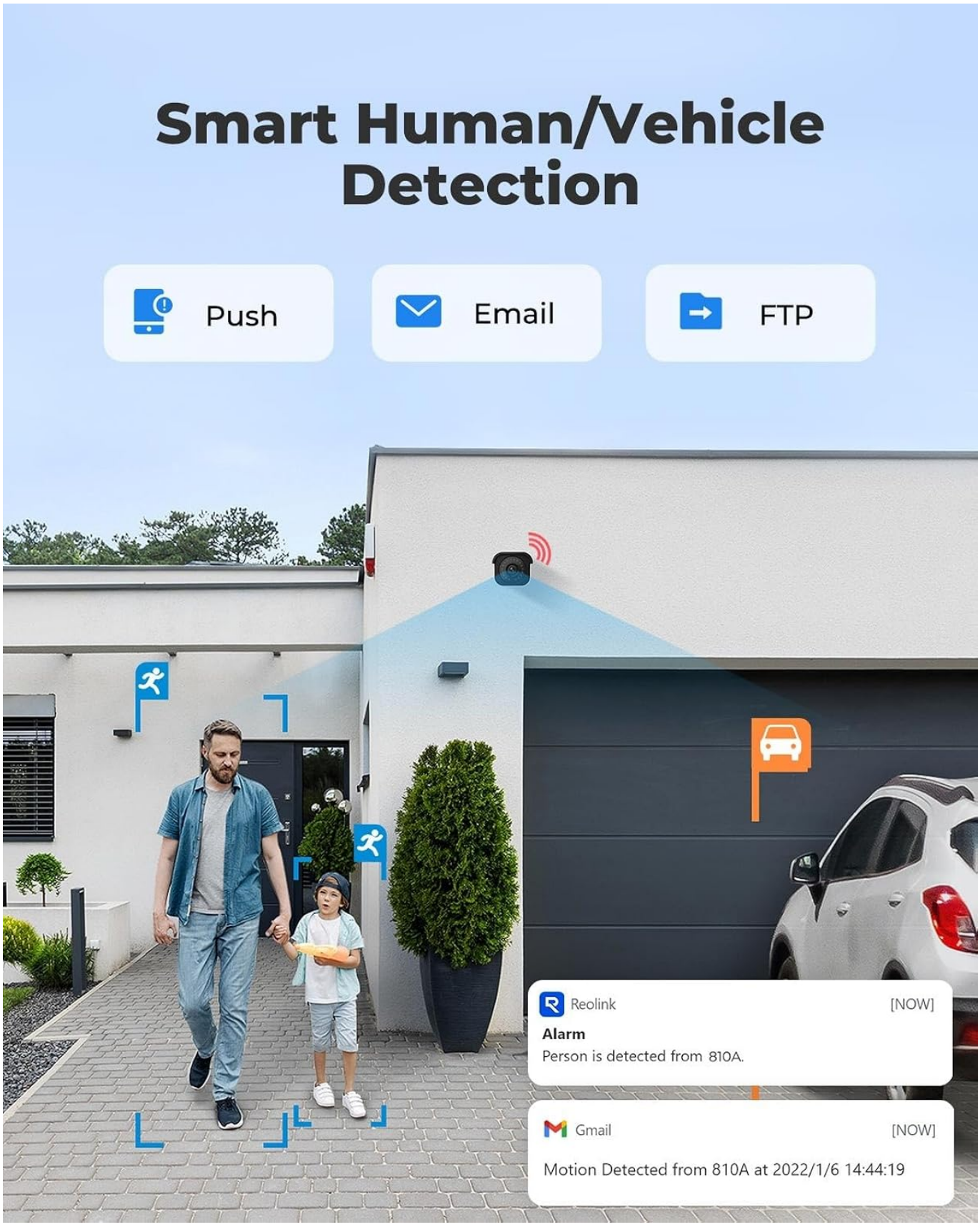


Figure 3.2: Visual representation of smart human and vehicle detection. The image depicts a person and a car within detection zones, with notifications for detected events, illustrating how the camera differentiates between subjects.

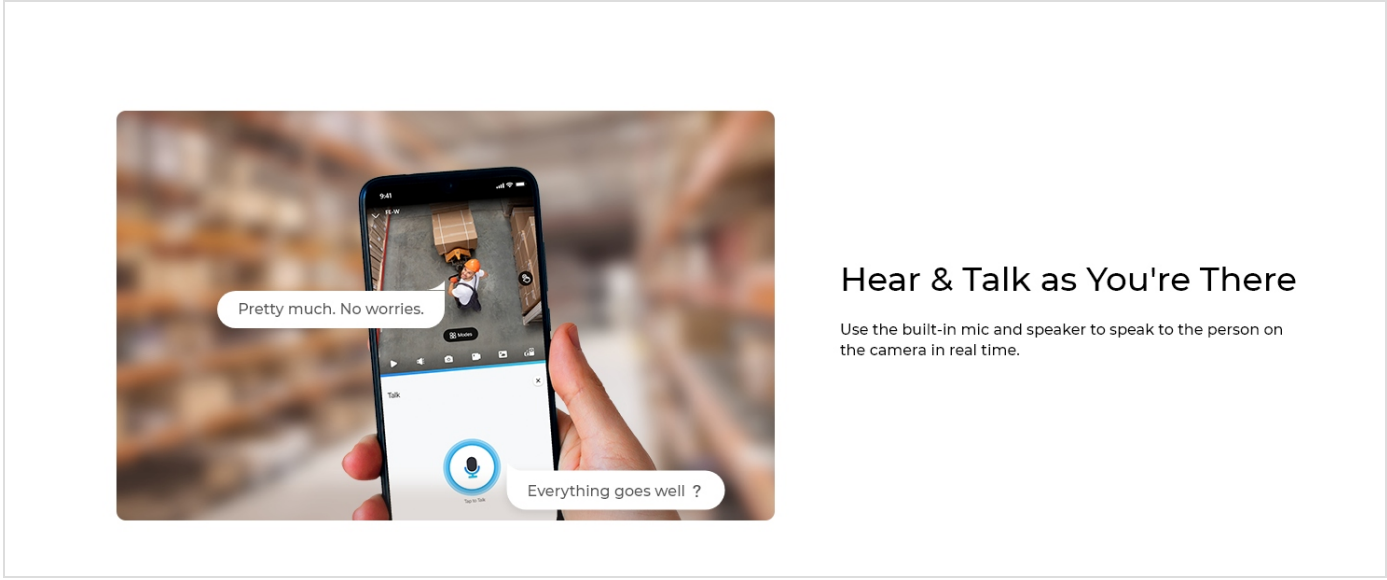


Figure 3.3: Diagram explaining how smart detection minimizes false alerts. This image shows the camera's field of view with icons indicating correct detection of humans and vehicles, and exclusion of bugs, leaves, and other non-threats.

Upon detection, the camera can send real-time push notifications to your phone, email alerts, or upload footage to an FTP server. You can customize the type of alerts received based on the detected object.

Recording Options

The RLC-810A offers flexible recording solutions:

- **NVR Recording:** For 24/7 continuous recording and centralized management, connect the camera to a compatible Reolink NVR.
- **MicroSD Card Recording:** The camera supports up to a 256GB microSD card (not included) for local storage of motion-triggered events or continuous recording.
- **FTP/NAS:** Configure the camera to upload recorded videos to an FTP server or Network Attached Storage (NAS) for off-site backup.



Figure 3.4: Overview of recording options. The image displays a Reolink NVR, a microSD card, and an FTP/NAS icon, illustrating the various methods for storing camera footage.



Figure 3.5: Chart showing approximate recording durations for different microSD card sizes. It indicates 24.2 hours for 64GB, 48.5 hours for 128GB, and 97.1 hours for 256GB.

Two-Way Audio (Listen and Talk)

The RLC-810A includes a built-in microphone and speaker, allowing you to listen to what's happening around the camera and communicate with people on the other end in real-time through the Reolink App.



Figure 3.6: Image depicting the two-way audio feature. A hand holds a smartphone displaying the camera feed with chat bubbles, indicating the ability to hear and speak through the camera.

Time-Lapse Function

Capture dynamic processes like sunrise, sunset, or construction projects with the camera's time-lapse feature. This condenses hours or days of footage into short, engaging videos.

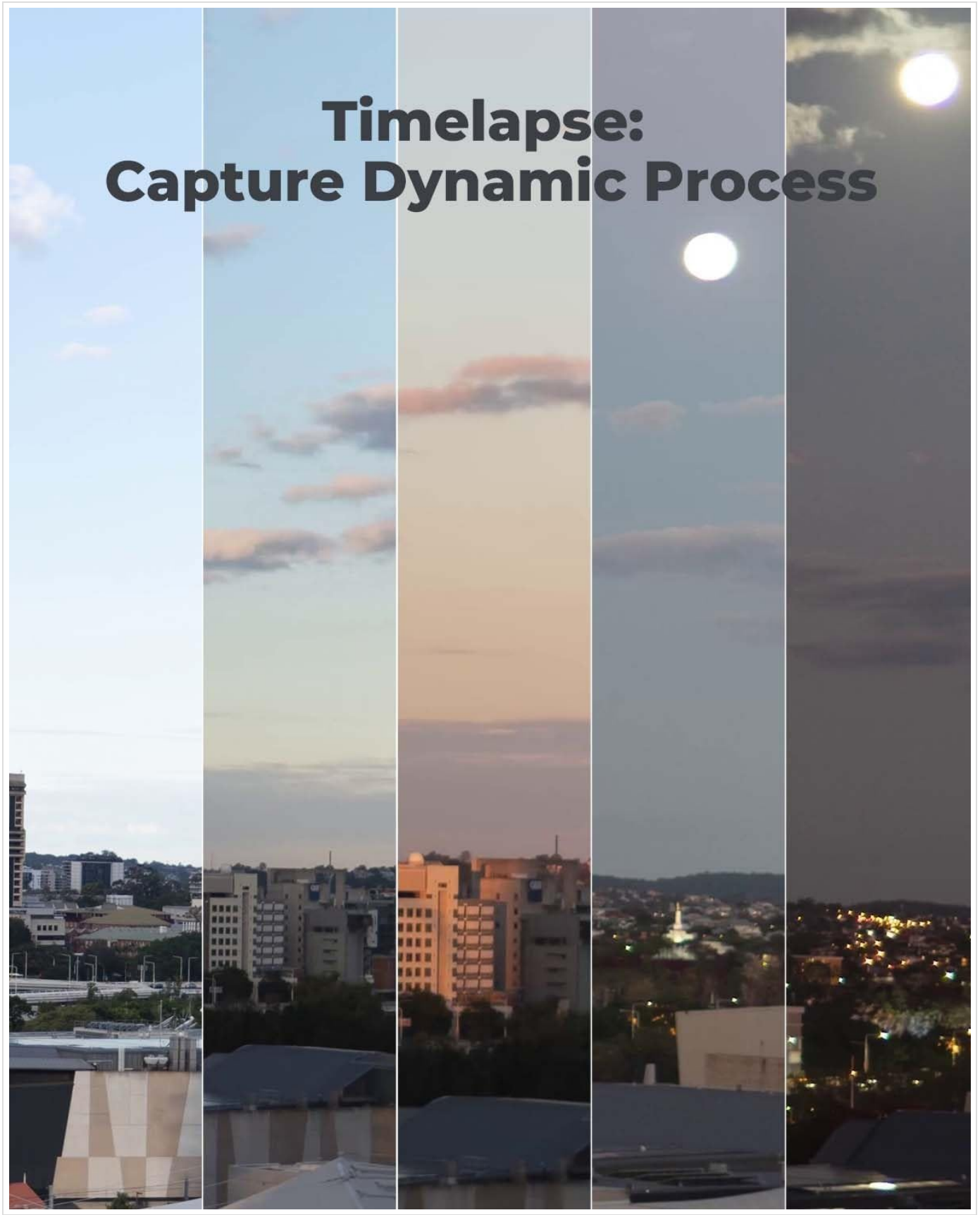


Figure 3.7: Visual demonstration of the time-lapse feature. The image shows a sequence of sky and city views transitioning from day to night, illustrating the compressed passage of time.



Figure 3.8: Screenshot of time-lapse playback interface. A progress bar shows the condensed video from 00:01 to 23:59, representing a full day's recording.

Video Quality and Night Vision

Experience crystal-clear surveillance with 4K (8MP) Ultra HD resolution, providing sharp and detailed images. The camera also features powerful IR night vision, allowing it to capture clear footage up to 100 feet in low-light conditions.



Figure 3.9: Example of 4K Ultra HD video quality in a backyard setting. The image showcases the high resolution (3840x2160) and clarity of the camera's daytime footage.

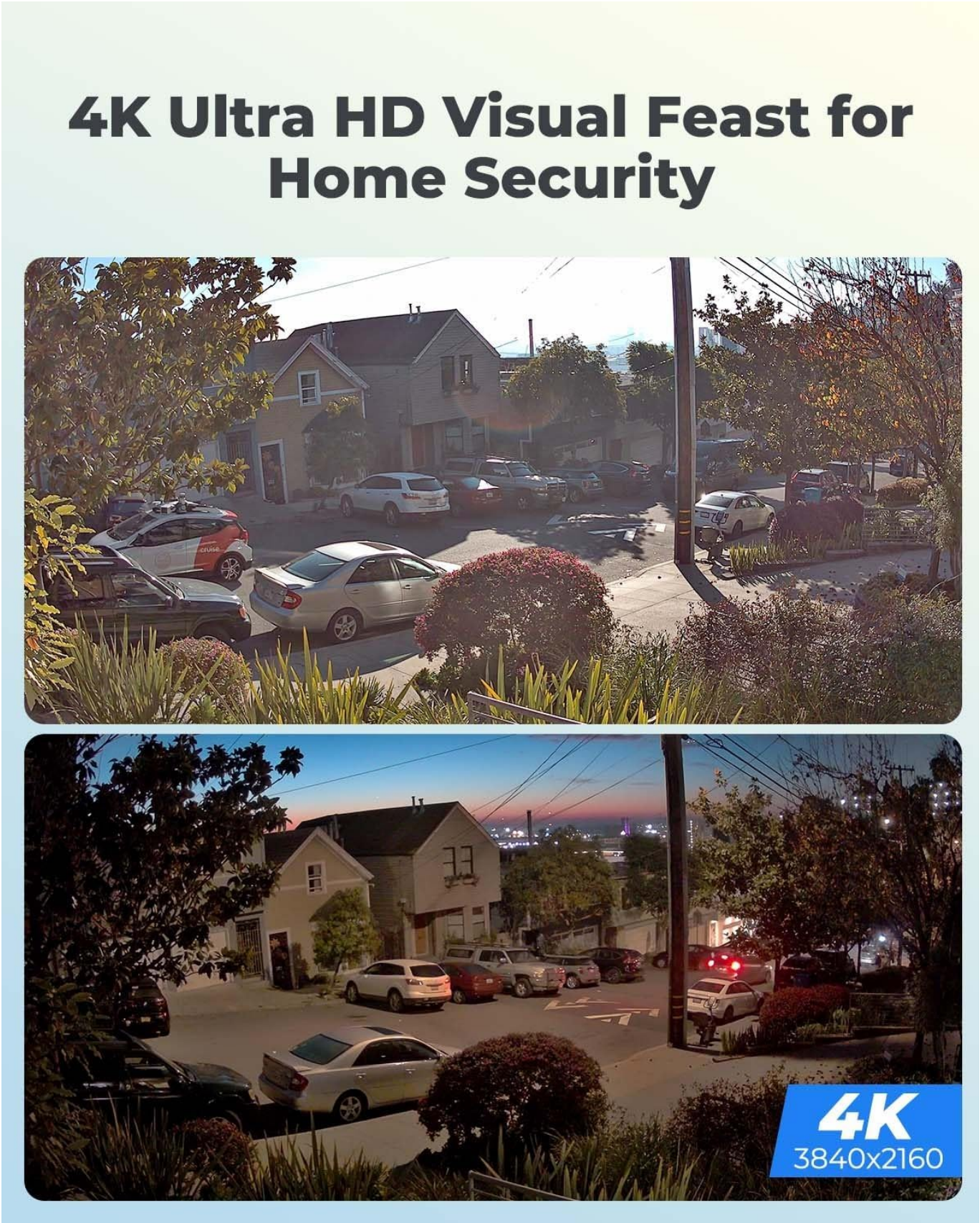


Figure 3.10: Comparison of 4K Ultra HD video quality from day to night in a street environment. The top image shows clear daytime details, while the bottom image demonstrates effective night vision with visible streetlights and car lights.



Figure 3.11: Sequence of 25 frames per second (fps) 4K UHD video. This series of images demonstrates the smooth motion capture capability of the camera, showing a person approaching a doorstep.

Smart Home Integration

The RLC-810A can integrate with smart home ecosystems, allowing you to view your camera feed on compatible smart displays.

Figure 3.12: Camera feed displayed on a smart home device. The image shows a Google Nest Hub displaying the live view from the camera, indicating compatibility with smart home systems.

Official Product Videos:

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Video 3.1: A brief introduction to the RLC-810A camera. This video provides a concise overview of the camera's main features and benefits, ideal for understanding its capabilities.

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Video 3.2: Reolink RLC-810A - 4K Outdoor Security Camera. This video demonstrates the camera's performance in an outdoor setting, showcasing its 4K resolution and suitability for exterior surveillance.

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Video 3.3: Reolink 4K NVR PoE Security Camera System. This video provides an overview of integrating the RLC-810A with a Reolink NVR system, demonstrating comprehensive surveillance solutions.

4. Maintenance

Regular maintenance ensures optimal performance and longevity of your REOLINK RLC-810A camera.

- **Lens Cleaning:** Periodically clean the camera lens with a soft, damp cloth to remove dust, dirt, or water spots that may obscure the view. Avoid abrasive cleaners.
- **Firmware Updates:** Check for and install the latest firmware updates via the Reolink App or Client. Firmware updates often include performance improvements, bug fixes, and new features.
- **Cable Inspection:** Regularly inspect the Ethernet cable and connections for any signs of wear, damage, or corrosion, especially in outdoor installations. Ensure all connections are secure and waterproof.
- **Environmental Conditions:** While the camera is designed for outdoor use, extreme temperatures or prolonged exposure to harsh weather can affect performance. The camera operates effectively between -10°C (14°F) and 55°C (131°F).



Figure 4.1: Image demonstrating the camera's weather resistance. The camera is shown with water droplets, indicating its ability to withstand rain and operate within a wide temperature range (14°F to 131°F).

5. Troubleshooting

This section addresses common issues you might encounter with your RLC-810A camera.

Problem	Possible Cause	Solution
No Power/No Image	Loose cable connection; PoE issue; Camera malfunction.	Check Ethernet cable connections. Ensure PoE NVR/switch is functioning correctly. Try connecting to a different PoE port or device. Contact support if issue persists.
Poor Image Quality	Dirty lens; Low bandwidth; Incorrect resolution settings.	Clean the camera lens. Check network connection speed. Adjust video resolution settings in the Reolink App/Client to a lower setting if bandwidth is limited.
Frequent False Alarms	Sensitive motion detection; Improper detection zone setup; Environmental factors.	Adjust motion detection sensitivity. Configure detection zones to exclude areas with irrelevant movement (e.g., trees, busy roads). Enable human/vehicle detection filters.
Cannot Access Remotely	Network connectivity issue; Incorrect app settings; Firewall blocking.	Ensure your camera and device have stable internet access. Verify app settings and UID. Check router firewall settings to ensure Reolink ports are open if necessary.
MicroSD Card Not Recording	Card full; Card not formatted; Faulty card; Recording schedule not set.	Check card status in app/client. Format the microSD card. Replace the card if it's faulty. Ensure recording schedule is enabled.

For more detailed troubleshooting or issues not listed here, please refer to the official Reolink support resources or contact their customer service.

6. Specifications

Feature	Detail
Model Number	RLC-810A
Video Capture Resolution	4K (8MP)
Effective Video Resolution	8 MP
Connectivity Technology	Ethernet (PoE)
Power Source	Corded Electric

Feature	Detail
Night Vision Range	100 Feet
Frame Rate	25fps
Viewing Angle	87 Degrees
Flash Memory Type	Micro SD (up to 256GB)
International Protection Rating	IP67
Item Dimensions (L x W x H)	4.25 x 4.8 x 7.72 inches
Item Weight	1.08 pounds (488 Grams)
Operating Temperature Range	14°F to 131°F (-10°C to 55°C)
Special Features	Local Recording, Time-Lapse, Human/Vehicle/Pet Detection
Indoor/Outdoor Usage	Outdoor

7. Warranty and Support

REOLINK products typically come with a limited warranty. For specific warranty terms and conditions, please refer to the warranty card included with your product or visit the official REOLINK website.

Customer Support:

If you encounter any issues or have questions regarding your RLC-810A camera, please contact REOLINK customer support. You can usually find contact information on their official website or within the Reolink App/Client.

Online Resources:

- Official User Guide (PDF): Download User Manual
- Reolink Official Website: Visit Reolink.com
- Reolink Support Page: Check for FAQs, troubleshooting guides, and firmware downloads.

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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

After a successful submission, we securely hash the supplied account or form email before sending it to Microsoft Advertising for conversion attribution. Privacy details.

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