

REOLINK RLC-820A

REOLINK RLC-820A 4K Ultra HD PoE Outdoor Security Camera User Manual

Model: RLC-820A

1. INTRODUCTION

This manual provides detailed instructions for the installation, operation, and maintenance of your REOLINK RLC-820A 4K Ultra HD PoE Outdoor Security Camera. The RLC-820A camera features 4K resolution, smart human/vehicle detection, and Power over Ethernet (PoE) for simplified installation. Please read this manual thoroughly before using the product to ensure proper setup and functionality.

2. WHAT'S IN THE BOX

Verify that all components are present in your package:

- 1x REOLINK RLC-820A Camera
- 1x D20 Junction Box
- Mounting Screw Pack
- Waterproof Lid
- Network Cable (1m)
- Quick Start Guide
- Surveillance Sign

3. PRODUCT OVERVIEW

3.1 Key Features

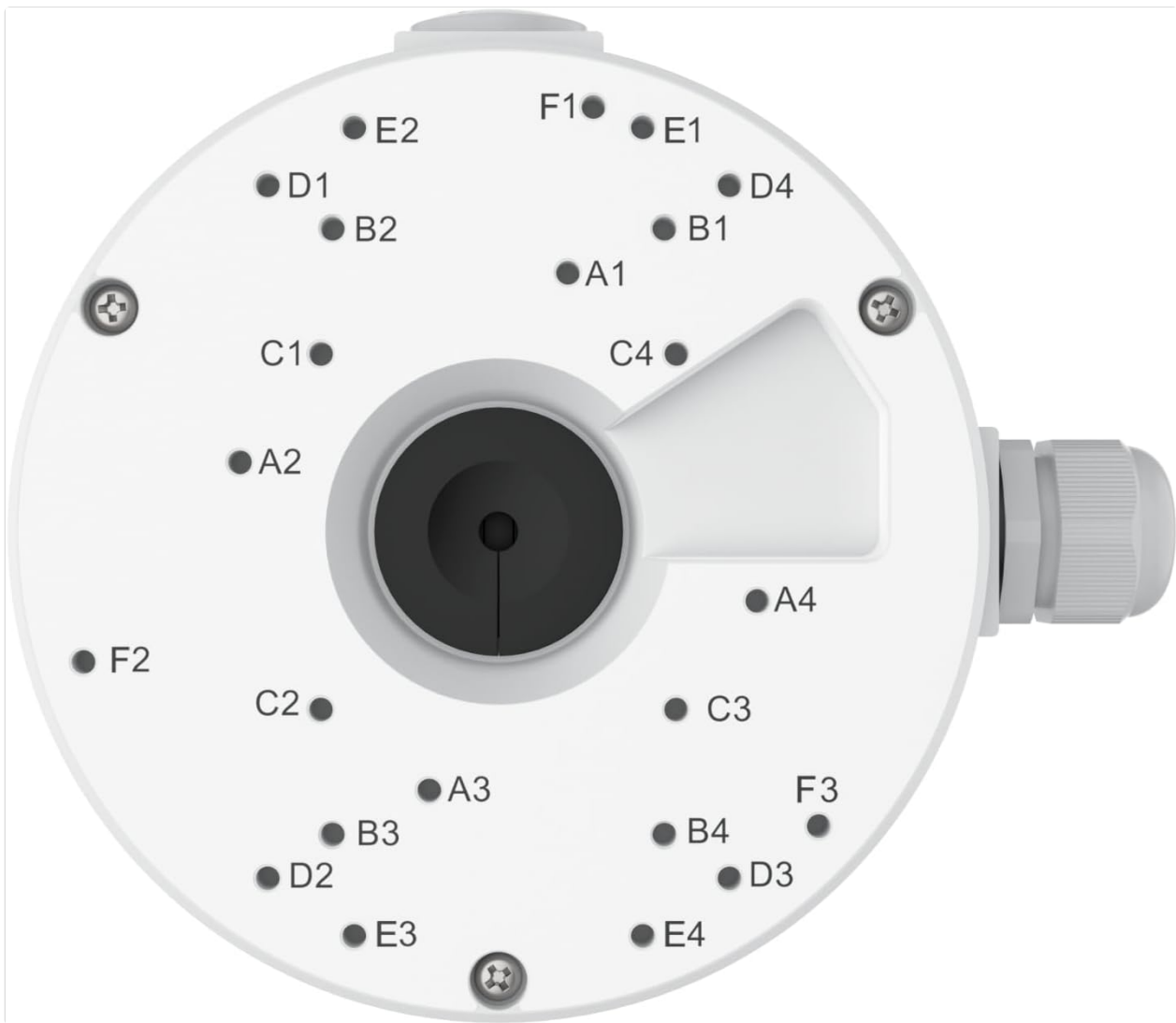
- **4K Ultra HD Resolution:** Captures clear and detailed video at 3840x2160 pixels.
- **Smart Human/Vehicle Detection:** Advanced technology distinguishes people and vehicles from other moving objects, reducing false alarms.

- **Power over Ethernet (PoE):** Simplifies installation by delivering power and data through a single Ethernet cable.
- **Weatherproof Design:** IP65 rated for outdoor use, capable of withstanding various weather conditions.
- **Flexible Storage Options:** Supports up to 256GB Micro SD card (not included) for local storage, and compatible with Reolink NVR/FTP/NAS.
- **Time Lapse Function:** Records long events into short, shareable videos.
- **Remote Access:** View live feed and recordings anytime, anywhere via the Reolink App or Client.
- **Smart Home Integration:** Works with Google Assistant for voice control.

3.2 Camera Components



Front view of the REOLINK RLC-820A camera, showcasing its dome design and lens.



Underside view of the RLC-820A camera, highlighting the mounting screw holes and cable management.



Detail of the MicroSD card slot on the RLC-820A camera.

4. SETUP AND INSTALLATION

4.1 Before You Start

- Ensure you have a PoE switch or PoE injector to power the camera.
- Prepare necessary tools: drill, screwdriver, ladder (if mounting high).
- Plan your camera's mounting location for optimal coverage and network access.

4.2 Physical Installation

The RLC-820A camera can be mounted on a wall or ceiling. The D20 Junction Box is included for neat cable management and protection.

1. **Mounting Location:** Choose a stable surface that provides a clear field of view and is within reach of your PoE network cable.
2. **Drill Holes:** Use the mounting template (if provided in the package) to mark and drill holes for the camera and/or junction box.
3. **Install Junction Box (Optional but Recommended):** Secure the D20 Junction Box to the mounting surface using the provided screws. This box helps protect cable connections from weather and provides a clean installation.
4. **Route Cables:** Pass the camera's Ethernet cable through the junction box (if used) or directly through the mounting surface.
5. **Connect Ethernet Cable:** Connect the camera's Ethernet cable to your PoE switch or injector. Ensure the connection is secure and waterproof using the included waterproof lid.
6. **Mount Camera:** Attach the camera to the mounting surface or the junction box using the provided screws. Adjust the camera angle as needed.



A diagram explaining Power over Ethernet (PoE) installation, showing how a single Ethernet cable transmits power, signal, sound, and data between a PoE switch and the RLC-820A camera.



Multiple views of the REOLINK D20 Junction Box, designed for neat and secure cable management during camera installation.

4.3 Software Setup

To access and configure your camera, download the Reolink App or Client software.

1. **Download App/Client:** Search for "Reolink App" on the App Store or Google Play, or download the Reolink Client from the official Reolink website.
2. **Add Device:** Open the app/client, tap the "+" icon to add a new device. Scan the QR code on the camera or manually enter the UID.
3. **Initial Configuration:** Follow the on-screen prompts to set up a password for your camera and configure basic settings like Wi-Fi (if applicable, though this is a PoE camera), time zone, and recording

preferences.

5. OPERATING YOUR CAMERA

5.1 Live View and Playback

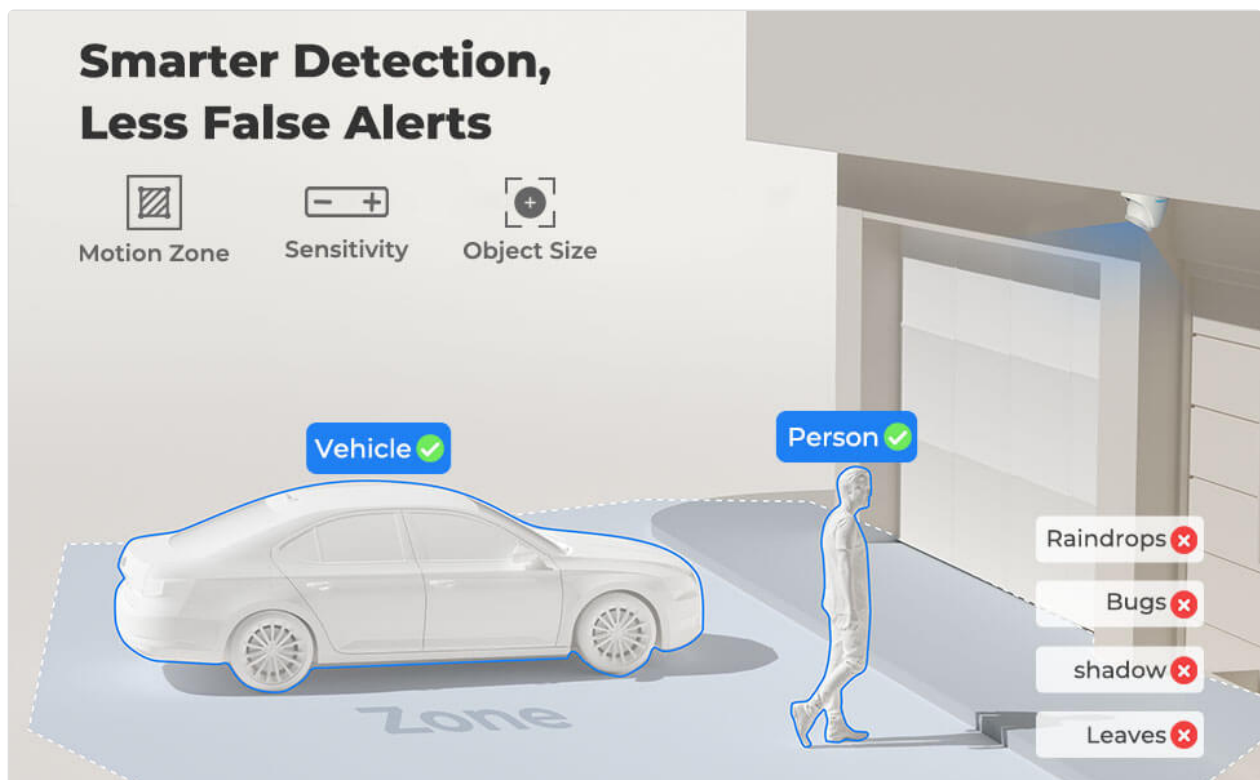
Once set up, you can view the live feed and recorded footage through the Reolink App or Client.

- **Live View:** Select your camera from the device list to see the real-time video feed.
- **Playback:** Access the playback feature to review recorded events stored on the Micro SD card or NVR.

5.2 Smart Detection Configuration

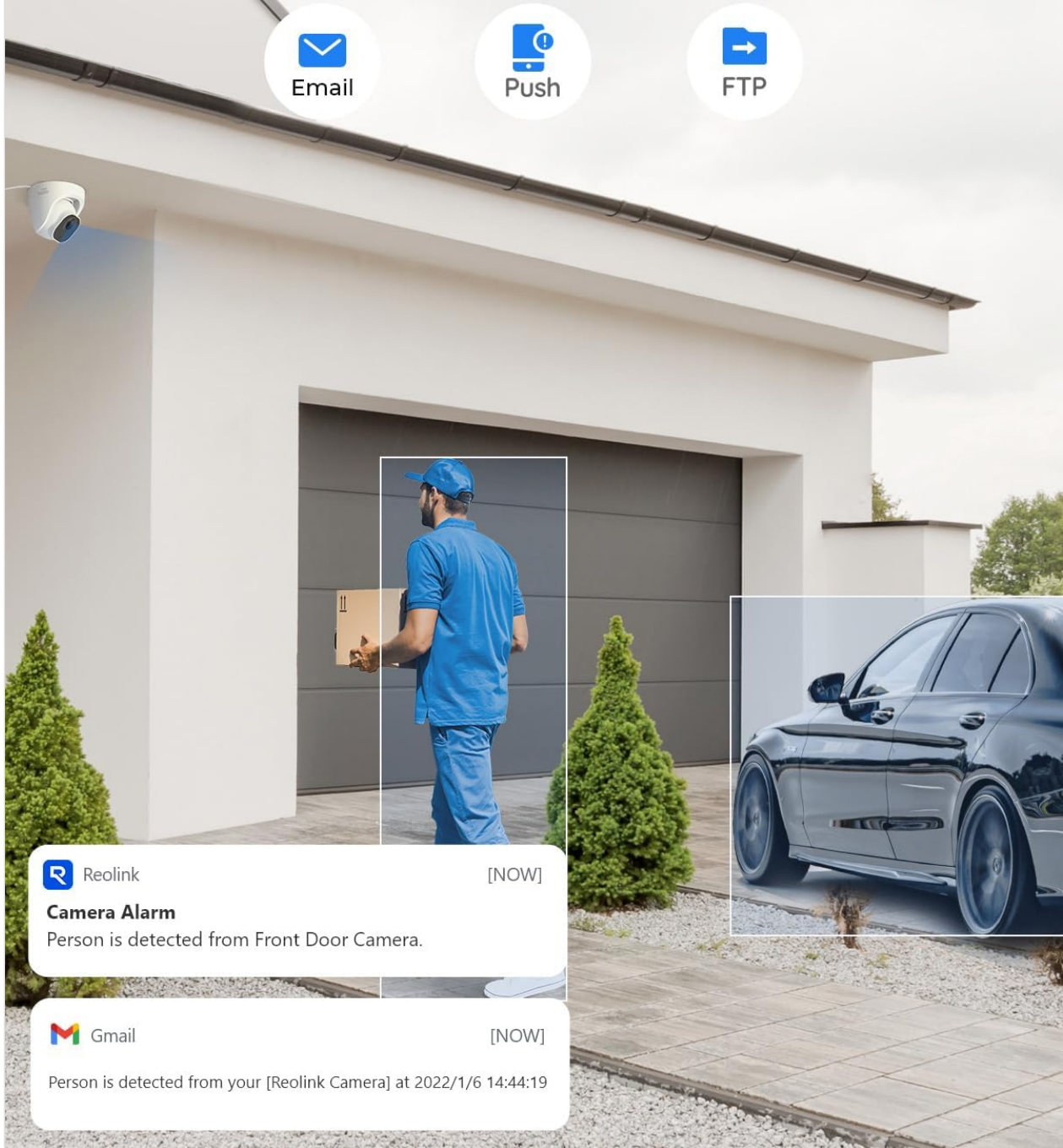
The RLC-820A features advanced human and vehicle detection to minimize false alerts.

- **Motion Zone:** Define specific areas within the camera's view where motion detection will be active.
- **Sensitivity:** Adjust the detection sensitivity to suit your environment.
- **Object Size:** Configure the minimum and maximum object sizes to trigger an alert, further refining detection.
- **Alert Settings:** Customize how you receive alerts (e.g., push notifications, email, FTP upload).



An illustration demonstrating the camera's advanced detection features, including customizable motion zones, sensitivity settings, and object size filtering to reduce false alerts from rain, bugs, shadows, or leaves.

Smart Human/Vehicle Detection



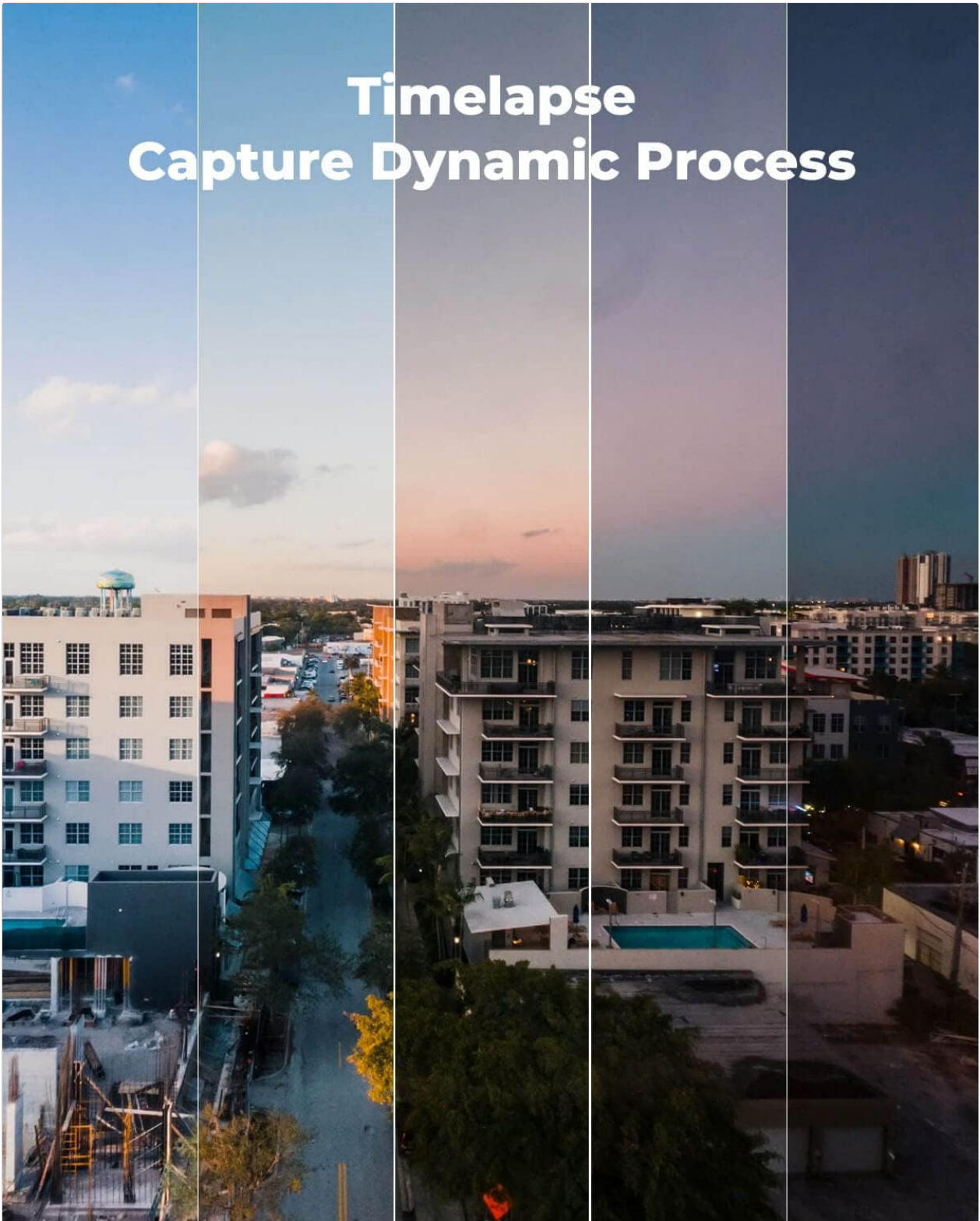
An image illustrating the camera's smart detection capabilities, identifying a person and a vehicle, with examples of email and push notifications.

5.3 Time Lapse Function

The time-lapse feature allows you to capture long-term events, such as construction projects or changing weather, and condense them into short videos.

- **Enable Time Lapse:** Access the camera settings in the Reolink App/Client and enable the time-lapse function.
- **Set Interval:** Configure the capture interval (e.g., every 5 seconds, 1 minute).
- **Start Recording:** Begin the time-lapse recording. The camera will automatically compile the images into a video.

Timelapse Capture Dynamic Process



A visual representation of the time-lapse function, showing a sequence of images captured over time to condense long events.

5.4 Remote Access

Access your camera's feed from anywhere with an internet connection.

- Ensure your camera is connected to the internet.
- Use the Reolink App on your smartphone or tablet, or the Reolink Client on your computer, to connect to your camera remotely.

Remote Access Anytime & Anywhere



An image depicting remote access to the camera's live feed and recordings from various devices such as smartphones, tablets, and computers.

5.5 Smart Home Integration

The RLC-820A camera supports integration with Google Assistant.

- Link your Reolink account with your Google Home app.
- Use voice commands (e.g., "Hey Google, show me the front door camera") to view your camera's feed on compatible smart displays.

6. MAINTENANCE

- **Cleaning:** Regularly clean the camera lens with a soft, dry cloth to ensure clear image quality. Avoid abrasive cleaners.
- **Firmware Updates:** Check for and install firmware updates through the Reolink App or Client to ensure optimal performance and access to new features.
- **Micro SD Card Management:** If using a Micro SD card, periodically check its status and ensure it has sufficient space. Format the card if necessary.
- **Cable Inspection:** Periodically inspect the Ethernet cable and connections for any signs of wear or damage, especially in outdoor installations.



Close-up of the RLC-820A camera with water droplets, illustrating its weatherproof design suitable for outdoor use.

7. TROUBLESHOOTING

7.1 Common Issues and Solutions

Issue	Possible Cause	Solution
No power/Camera not turning on	Faulty PoE connection or power source.	Check the PoE switch/injector and Ethernet cable connection. Ensure the PoE device is powered on. Try a different Ethernet port or cable.
No video feed	Network connectivity issue, incorrect IP settings, or camera malfunction.	Verify network cable connection. Ensure the camera is connected to the same network as your viewing device. Restart the camera and router. Check camera IP settings in the Reolink Client.
Frequent false alarms	High motion sensitivity, large motion detection zone, or environmental factors.	Adjust motion sensitivity settings. Reduce the size of the motion detection zone. Utilize human/vehicle detection filters. Clear any obstructions (e.g., tree branches) from the camera's view.
Cannot access camera remotely	Internet connection issues, firewall settings, or incorrect app configuration.	Ensure your home network has internet access. Check firewall settings on your router. Verify camera's UID is correctly added to the Reolink App/Client.
Poor image quality	Dirty lens, low light conditions, or incorrect video settings.	Clean the camera lens. Ensure sufficient lighting. Adjust video resolution and bitrate settings in the Reolink App/Client.

8. SPECIFICATIONS

Feature	Detail
Brand	REOLINK
Model	RLC-820A
Connectivity Technology	Wired (PoE)

Feature	Detail
Special Feature	Motion Sensor, Night Vision, Human/Vehicle Detection
Indoor/Outdoor Usage	Outdoor
Form Factor	Bullet
Alert Type	Motion Only (with smart detection)
Waterproof Rating	IP65
Video Capture Resolution	4K (3840x2160)
Night Vision	Night Color
Connectivity Protocol	Wi-Fi (for app access, not primary connection)
Video Capture Format	MPEG-4
Storage	Up to 256GB Micro SD (not included)

9. WARRANTY AND SUPPORT

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 specific warranty terms and conditions applicable to your region.

For technical support, troubleshooting assistance, or further inquiries, please visit the REOLINK support page on their official website. You can find FAQs, firmware downloads, and contact information for customer service.

Official Website: reolink.com