REOLINK RLN8-410

REOLINK RLN8-410 8-Channel 4K PoE NVR Security System User Manual

Models: RLN8-410 NVR, RLC-810A Camera, RLC-811A Camera

1. INTRODUCTION

This manual provides comprehensive instructions for the installation, operation, and maintenance of your REOLINK RLN8-410 8-Channel 4K PoE NVR Security System. This system includes the RLN8-410 Network Video Recorder, RLC-810A 4K PoE cameras, and RLC-811A 4K PoE cameras with 5X optical zoom and motion spotlight. 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 RLN8-410 NVR with pre-installed 2TB HDD and accessories (power adapter, USB mouse, HDMI cable, network cable).
- 1x REOLINK RLC-810A 4K PoE Camera with accessories (mounting template, screws, waterproof lid, 1m Ethernet cable).
- 1x REOLINK RLC-811A 4K PoE Camera with 5X Optical Zoom and Motion Spotlight, with accessories (mounting template, screws, waterproof lid, 1m Ethernet cable).

Image 2.1: REOLINK RLN8-410 NVR unit. This image shows the front and side view of the black NVR unit with the Reolink logo, power and HDD indicator lights, and USB port.
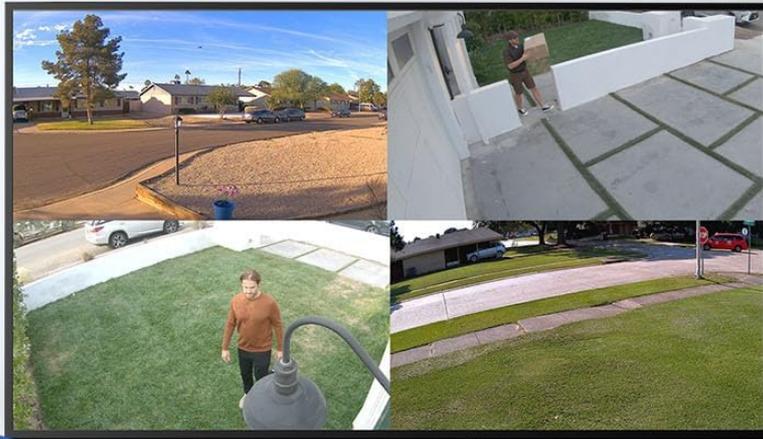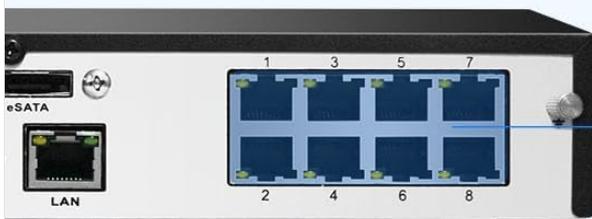
3. PRODUCT OVERVIEW

3.1 RLN8-410 NVR

The RLN8-410 is an 8-channel Network Video Recorder designed to manage and record video streams from up to 8 PoE IP cameras. It features a pre-installed 2TB hard disk drive for continuous recording and supports 4K Ultra HD video output.

Image 3.1: NVR system displaying multiple camera feeds on a monitor. This image illustrates the NVR's capability for all-in-one security management with 24/7 recording, showing four camera views on a screen connected to the NVR.

3.2 RLC-810A 4K PoE Camera

The RLC-810A is a 4K Ultra HD PoE bullet camera designed for outdoor use. It features smart detection capabilities for persons and vehicles, and provides clear night vision.

Image 3.2: REOLINK RLC-810A 4K PoE Bullet Camera. This image shows a white bullet-style camera with a black lens housing and multiple infrared LEDs, designed for outdoor surveillance.

3.3 RLC-811A 4K PoE Camera

The RLC-811A is an advanced 4K Ultra HD PoE bullet camera featuring 5X optical zoom, smart detection for persons, vehicles, and pets, and a motion-activated spotlight for enhanced night vision and deterrence.

Image 3.3: REOLINK RLC-811A 4K PoE Camera with Spotlight. This image displays a white bullet-style camera with a black lens housing, featuring multiple bright LED spotlights around the lens, suitable for outdoor installation.

4. SETUP INSTRUCTIONS

4.1 NVR Connection

1. Connect the NVR to a monitor using the provided HDMI cable.
2. Connect the USB mouse to the NVR's USB port.
3. Connect the NVR to your router using an Ethernet cable for network access.
4. Connect the power adapter to the NVR and plug it into a power outlet. The NVR will power on automatically.

4.2 Camera Installation

1. Choose a suitable location for each camera, ensuring good coverage and a stable mounting surface.
2. Use the mounting template to drill holes and secure the camera base with screws.
3. Connect each camera to an available PoE port on the NVR using an Ethernet cable. The NVR will provide power and data to the cameras.
4. Adjust the camera angle for optimal viewing.
5. For outdoor installations, ensure the waterproof lid is properly installed over the Ethernet connection.

Image 4.1: REOLINK camera mounted on a wooden wall. This image shows a white bullet camera securely mounted on the exterior of a building, illustrating a typical installation scenario.

5. OPERATING INSTRUCTIONS

5.1 Initial Setup Wizard

Upon first power-on, the NVR will guide you through an initial setup wizard to configure basic settings such as language, date/time, and password. Follow the on-screen prompts.

5.2 Accessing the System

- **Local Access:** Use the connected monitor and USB mouse to navigate the NVR interface.
- **Remote Access:** Download the REOLINK App (for mobile devices) or REOLINK Client (for PC/Mac) from the official REOLINK website or app stores. Add your NVR to the app/client using its UID or IP address.

Image 5.1: Remote access to REOLINK cameras. This image shows a person viewing live camera feeds on a smartphone, laptop, and desktop monitor, demonstrating the system's remote access capabilities.

5.3 Live View and Recording

From the NVR interface or remote app/client, you can view live feeds from all connected cameras. The system is configured for 24/7 continuous recording to the 2TB HDD by default. You can also configure motion-triggered recording or scheduled recording.

5.4 Playback

Access the playback menu to review recorded footage. You can search by date, time, and event type (e.g., motion

detection, person/vehicle detection).

5.5 Smart Detection

The RLC-810A and RLC-811A cameras feature intelligent detection capabilities:

- **Person Detection:** Identifies human shapes, reducing false alarms from other movements.
- **Vehicle Detection:** Identifies vehicles, useful for monitoring driveways or parking areas.
- **Pet Detection (RLC-811A only):** Identifies pets, allowing for specific alerts.
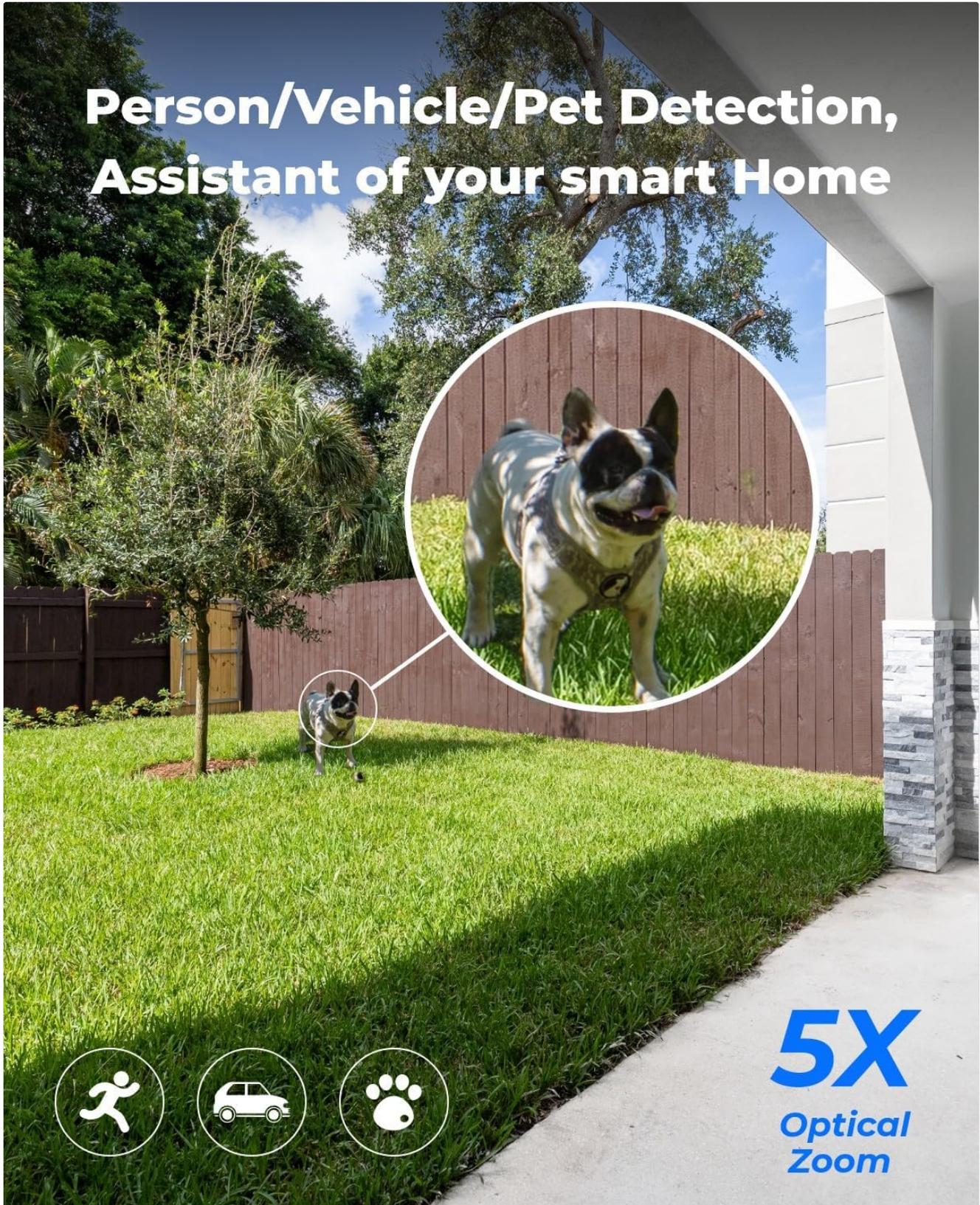

Image 5.2: Smart detection in action. This image shows a camera view of a dog in a yard, with an overlay indicating

5.6 5X Optical Zoom (RLC-811A only)

The RLC-811A camera allows for 5X optical zoom, enabling you to zoom in on distant objects without losing image quality. This feature can be controlled via the NVR interface or the REOLINK App/Client.
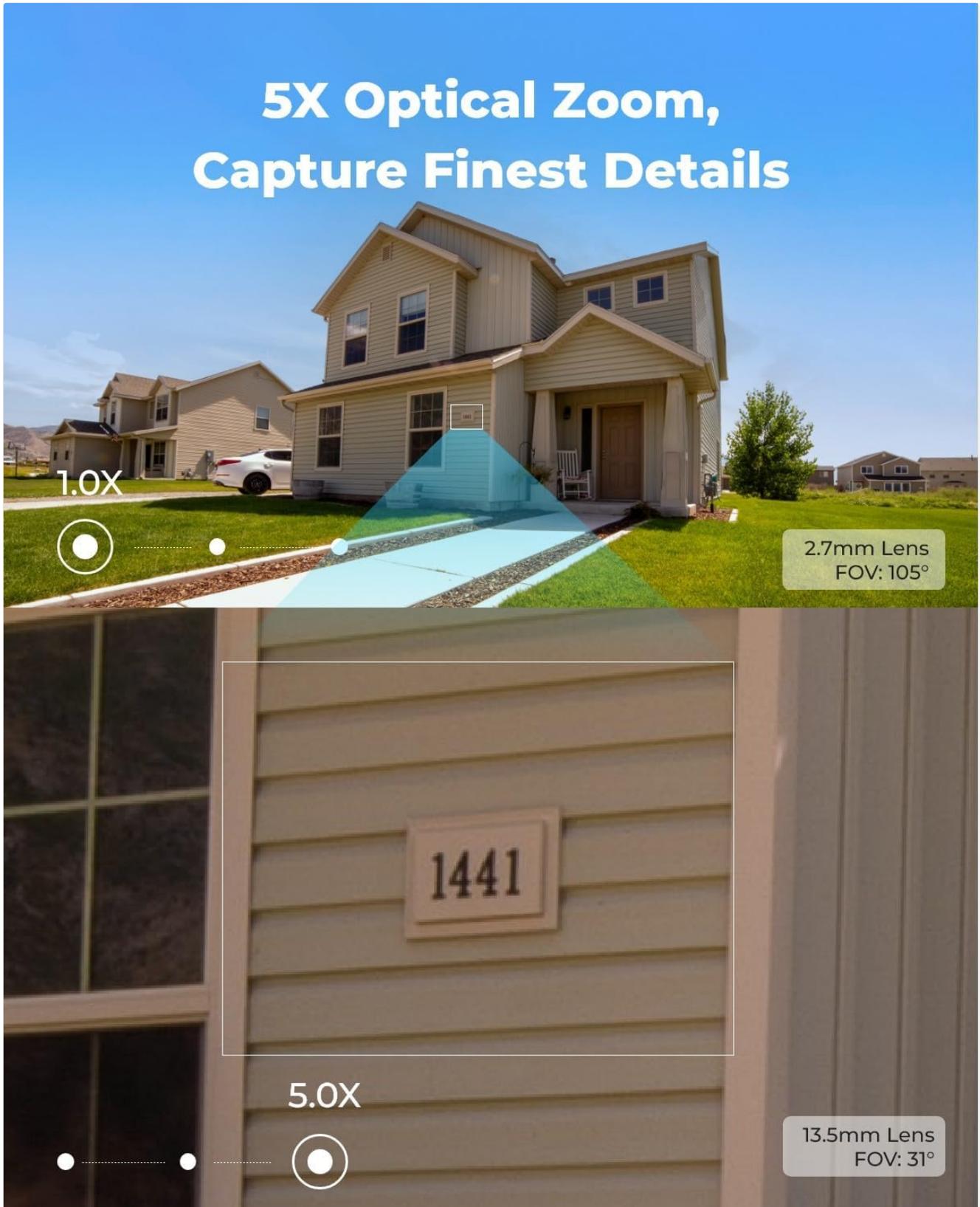

Image 5.3: 5X Optical Zoom capability. This image illustrates the RLC-811A's 5X optical zoom, showing a wide view of a house and a zoomed-in detail of a house number, demonstrating the ability to capture fine details.

5.7 Night Vision and Spotlight (RLC-811A only)

Both cameras provide clear night vision. The RLC-811A additionally features a motion-activated spotlight that can illuminate the area and deter intruders, providing color night vision when activated.

4K Ultra HD Visual Feast for Home Security

4K 3840x2160

Image 5.4: 4K Ultra HD visual quality. This image shows a wide, clear view of an outdoor patio and garden, demonstrating the 4K Ultra HD resolution for home security.

6. MAINTENANCE

6.1 Hard Drive Management

The NVR comes with a 2TB HDD. When the hard drive is full, the system will automatically overwrite the oldest recordings. You can configure recording schedules and motion detection sensitivity to optimize storage usage. Regularly back up important footage if needed.

6.2 Firmware Updates

Periodically check the REOLINK official website for firmware updates for both the NVR and cameras. Keeping your firmware updated ensures optimal performance, security, and access to new features. Follow the instructions provided with the firmware update files carefully.

6.3 Cleaning

Wipe the camera lenses and NVR exterior with a soft, dry cloth. Avoid using harsh chemicals or abrasive materials that could damage the surfaces. Ensure no dust or debris obstructs the camera's view or the NVR's ventilation openings.

7. TROUBLESHOOTING

7.1 No Video Display

- Check if the NVR is powered on and the power indicator light is green.
- Ensure the HDMI cable is securely connected between the NVR and the monitor.
- Verify the monitor input source is set correctly (e.g., HDMI1, HDMI2).
- For individual cameras, check the Ethernet cable connection to both the camera and the NVR PoE port.

7.2 Remote Access Issues

- Ensure the NVR is connected to the internet via an Ethernet cable to your router.
- Verify your mobile device or computer has a stable internet connection.
- Check if the NVR's network settings are correctly configured (DHCP enabled or static IP set).
- Ensure the UID is correctly entered in the REOLINK App/Client.

7.3 Recording Problems

- Check the NVR's HDD status in the system settings to ensure it is detected and functioning.
- Verify recording schedules and motion detection settings are configured as desired.
- Ensure there is sufficient free space on the HDD.

8. SPECIFICATIONS

Feature	Specification
Brand	REOLINK
NVR Model	RLN8-410
Camera Models	RLC-810A, RLC-811A
Connectivity Technology	Wired (PoE)

Video Capture Resolution	2160p (4K Ultra HD)
Special Features	Night Vision, Weatherproof, Motion Sensor, Image Sensor, High Efficiency Video Coding, Smart Detection (Person/Vehicle/Pet), 5X Optical Zoom (RLC-811A), Motion Spotlight (RLC-811A)
Number of Channels	8
Memory Storage Capacity	2 TB HDD (Pre-installed)
Power Source	Corded Electric
Operating System	Linux-Based System
Frame Rate	24-30 fps
Hardware Interface	Ethernet
Video Input	RJ45

9. WARRANTY AND SUPPORT

REOLINK products typically come with a limited warranty. Please refer to the warranty card included in your package or visit the official REOLINK website for detailed warranty terms and conditions. For technical support, troubleshooting assistance, or further inquiries, please contact REOLINK customer service through their official website's support section.