

REOLINK RLN8-410

REOLINK 8CH Network Video Recorder (RLN8-410) User Manual

Comprehensive Guide for Setup, Operation, and Maintenance

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1. INTRODUCTION

This user manual provides detailed instructions for the installation, operation, and maintenance of your REOLINK 8CH Network Video Recorder (NVR) model RLN8-410. This NVR is designed to work exclusively with REOLINK PoE IP cameras, offering a robust solution for home security camera systems with 24/7 recording capabilities to a pre-installed 2TB hard drive.

The RLN8-410 supports up to 8 cameras simultaneously, including 16MP, 12MP, 4K, 8MP, 5MP, and 4MP REOLINK PoE IP cameras. It offers flexible recording options and can integrate smart features like human/vehicle/animal detection from compatible Reolink IP cameras. Remote viewing is available through the free Reolink App/Client for various platforms.



Figure 1.1: REOLINK 8CH Network Video Recorder (RLN8-410)

The REOLINK RLN8-410 NVR is a central component for your home security system, designed for reliable 24/7 video recording and management of up to 8 Reolink IP cameras.

2. SAFETY INFORMATION

- Read all instructions carefully before operating the device.
- Use only the power adapter supplied with the NVR.
- Ensure proper ventilation to prevent overheating. Do not block any ventilation openings.
- Keep the device away from water, moisture, and extreme temperatures.
- Do not attempt to disassemble or repair the NVR yourself. Refer all servicing to qualified personnel.
- Protect power cords from being walked on or pinched, particularly at plugs, convenience receptacles, and the point where they exit from the device.
- Disconnect the device from power during lightning storms or when unused for long periods.

3. PACKAGE CONTENTS

Verify that all items listed below are included in your package. If any items are missing or damaged, please contact REOLINK support.

What's in the Box



RLN8-410



Quick Start Guide



NVR Power Adapter



1m Network Cable



USB Mouse



HDMI Cable

Figure 3.1: What's in the Box

The package includes the REOLINK RLN8-410 NVR unit, a power adapter, a 1m network cable, a USB mouse, and an HDMI cable, along with a Quick Start Guide.

- REOLINK RLN8-410 NVR
- NVR Power Adapter
- 1m Network Cable
- USB Mouse

- HDMI Cable
- Quick Start Guide (Operational Instruction)

4. PRODUCT OVERVIEW

The REOLINK RLN8-410 NVR features a compact design with essential ports and indicators for easy setup and operation.

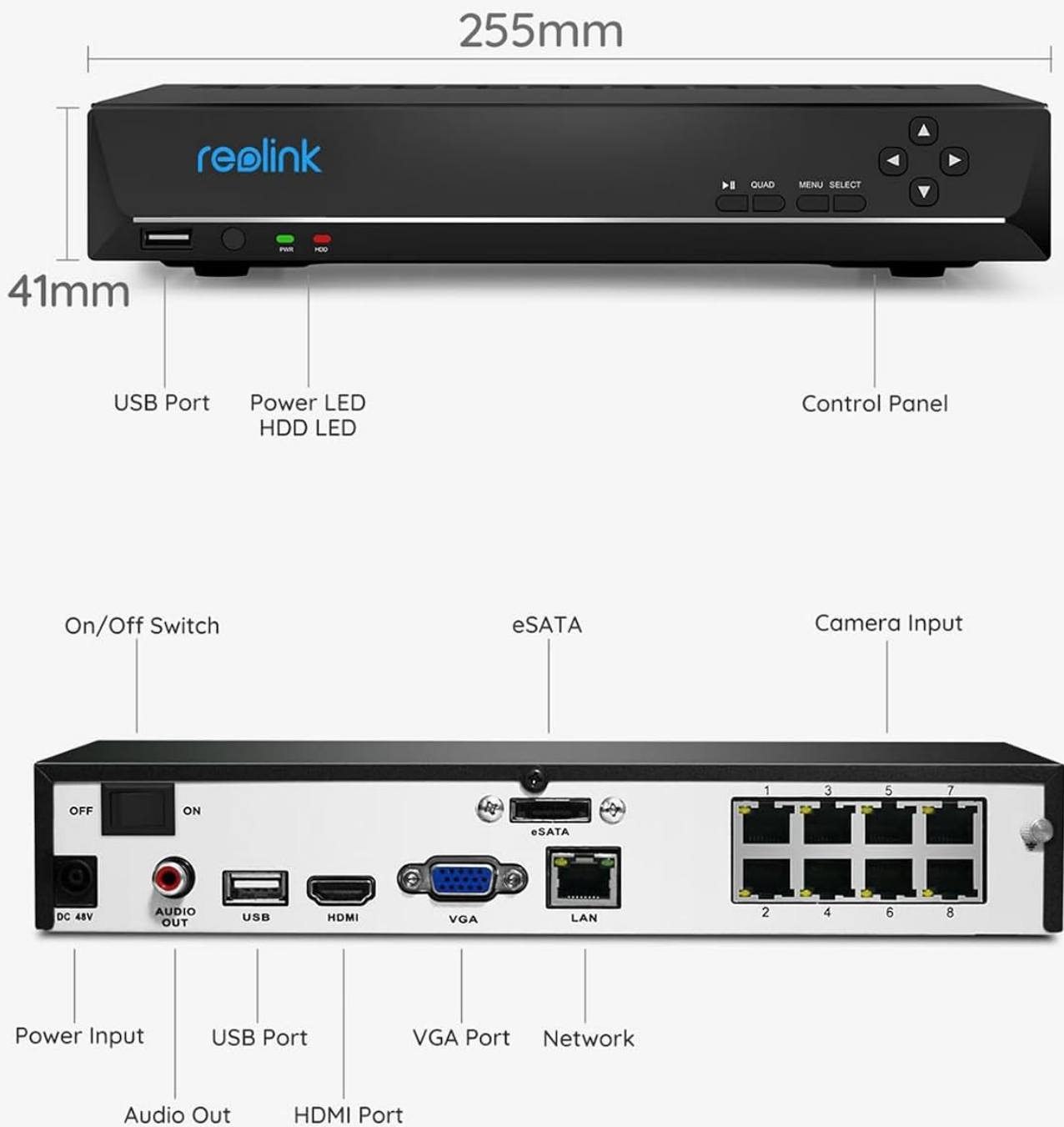


Figure 4.1: NVR Front and Rear Panel Layout

This image illustrates the front and rear panels of the RLN8-410 NVR, highlighting the USB port, power and HDD LEDs, control panel, On/Off switch, power input, audio out, additional USB port, HDMI port, VGA port, LAN port, eSATA port, and 8 camera input ports.

Front Panel

- **USB Port:** For connecting the included USB mouse or a USB flash drive for backup.
- **Power LED:** Indicates power status.
- **HDD LED:** Indicates hard drive activity.
- **Control Panel:** Buttons for navigation and menu selection.

Rear Panel

- **On/Off Switch:** Power control for the NVR.
- **DC 48V Power Input:** Connects to the NVR power adapter.
- **Audio Out:** For connecting external speakers.
- **USB Port:** Additional USB port for peripherals.
- **HDMI Port:** Connects to an HDMI-compatible monitor or TV for video output.
- **VGA Port:** Connects to a VGA-compatible monitor for video output.
- **LAN Port:** Connects to your network router for internet access and remote viewing.
- **eSATA Port:** For connecting an external hard drive (up to 8TB).
- **Camera Input (PoE Ports 1-8):** Connects Reolink PoE IP cameras directly.

5. SETUP

Follow these steps to set up your REOLINK RLN8-410 NVR and connect your cameras.

5.1 Initial Setup

1. **Connect to a Monitor:** Connect the NVR to a monitor or TV using the HDMI or VGA cable.
2. **Connect USB Mouse:** Plug the included USB mouse into one of the NVR's USB ports.
3. **Connect to Network:** Connect the NVR's LAN port to your router using the provided network cable.
4. **Power On:** Connect the power adapter to the NVR's DC 48V power input and plug it into a power outlet. Turn on the NVR using the On/Off switch.
5. **Initial Configuration:** Follow the on-screen prompts to complete the initial setup, including setting up a password for the NVR.

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Video 5.1: Tips to Power on the REOLINK PoE Camera and PoE NVR

This video provides helpful tips for correctly powering on your REOLINK PoE cameras and NVR, ensuring a smooth startup process for your security system.

5.2 Connecting Cameras

The RLN8-410 NVR is designed to work exclusively with REOLINK IP cameras. It supports both PoE and certain Wi-Fi cameras.

DIY Security System Every Corner Covered



Figure 5.2: DIY Security System Setup

This diagram illustrates how to set up a DIY security system with the Reolink NVR, showing cameras placed in various locations around a home, connected to the NVR for comprehensive coverage.

5.2.1 PoE Camera Connection

- Connect your Reolink PoE IP cameras directly to the NVR's PoE ports (1-8) using Ethernet cables. The NVR will provide both power and data transmission through a single cable.
- The NVR can make an independently running system itself with the DHCP function, allowing live view and access even without internet.

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Video 5.2: How to Add PoE Cameras to Reolink NVR via Reolink App

This instructional video demonstrates the process of adding PoE cameras to your Reolink NVR using the Reolink mobile application, guiding you through the necessary steps for camera integration.

5.2.2 Wi-Fi Camera Connection

- The NVR can also integrate with Reolink WiFi cameras (DC power and partial battery-powered cams). Ensure your NVR hardware version is N7MB01 and firmware is updated for battery Wi-Fi camera compatibility.

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Video 5.3: How to Connect Reolink WiFi Cameras to PoE NVR

This video tutorial explains how to connect your Reolink WiFi cameras to the PoE NVR, providing instructions for integrating wireless cameras into your wired NVR system.

5.3 Hard Drive Capacity

The NVR comes with a pre-installed 2TB hard drive for 24/7 recording. For additional storage, an extra 8TB HDD can be added via the eSATA port.

Expandable Capacity

Worry-Free Backup



How long can the HDD record in the 24/7 mode*

Total Recording Channels	ONE	Four	Eight
2TB HDD/Days	32	8	4

*Based on 6144 kbps Bitrate

Figure 5.3: Expandable Storage Capacity

This image highlights the NVR's expandable storage, featuring a pre-installed 2TB HDD and the option to add an external HDD up to 8TB via eSATA, ensuring ample space for recordings.

2TB HDD Recording Duration (24/7 Mode)*

Total Recording Channels	One	Four	Eight
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*Based on 6144 kbps Bitrate

Total Recording Channels	One	Four	Eight
2TB HDD/Days	32	8	4

*Based on 6144 kbps Bitrate

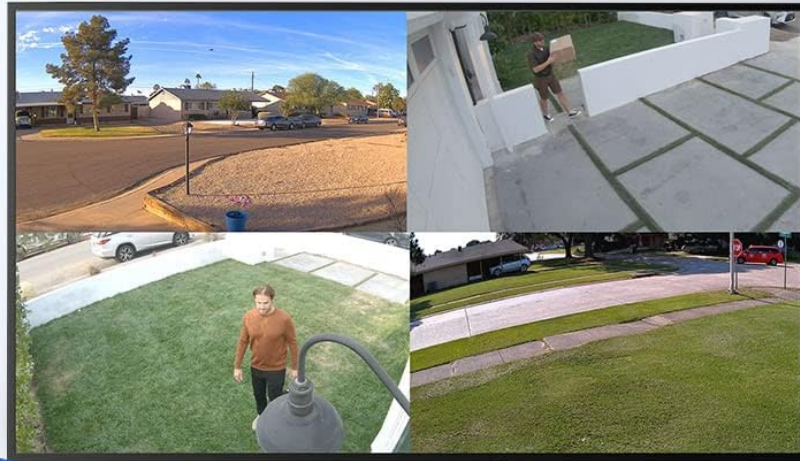
6. OPERATION

Once your NVR and cameras are set up, you can begin monitoring and managing your security system.

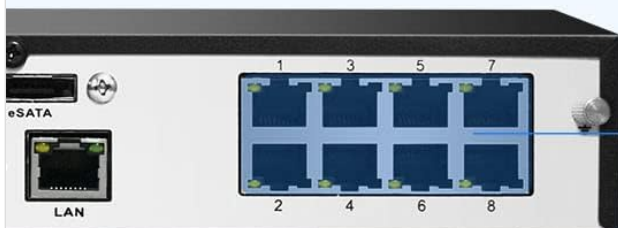
6.1 Live View

Access live feeds from all connected cameras on your monitor or through the Reolink App/Client.

All-in-One Management for Security



24/7
Recording



8 Cams

Only Support Reolink IP Cams

Figure 6.1: All-in-One Security Management

This image shows the NVR connected to a monitor displaying live feeds from multiple cameras, emphasizing its 24/7 recording capability and support for up to 8 Reolink IP cameras.

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Video 6.2: Live View with Reolink PoE NVR and Cameras

This video demonstrates how to access and view live feeds from your Reolink PoE cameras through the NVR interface, showcasing the real-time monitoring capabilities.

6.2 Recording Options

- **24/7 Continuous Recording:** The NVR records video with sound continuously to the built-in 2TB HDD.
- **Motion-Triggered Recording:** Configure cameras to record only when motion is detected, saving storage space.
- **Scheduled Recording:** Set specific times for recording.

6.3 Remote Access and Smart Features

Access your NVR and cameras remotely using the free Reolink App (iOS/Android) or Reolink Client (Windows/Mac).

Remote Access

Anytime, Anywhere



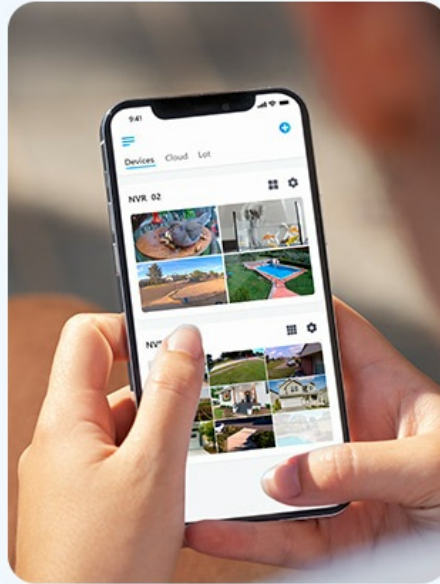
Figure 6.3: Remote Access Capabilities

This image illustrates the convenience of remote access to your Reolink security system via various devices, including smartphones, tablets, and laptops, allowing monitoring from anywhere.

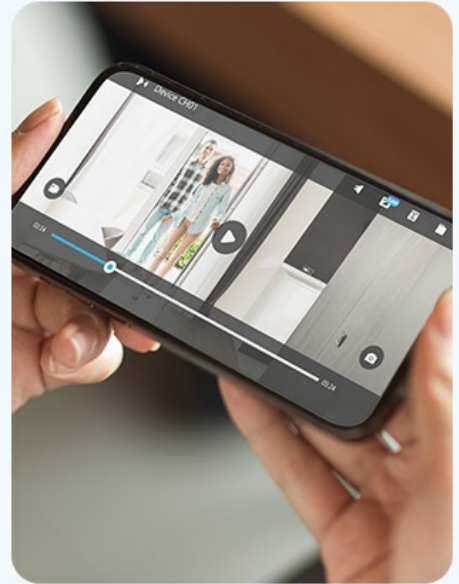
Your World at Your Fingertips



Real-Time Alerts



Remote Access Anywhere



Replay Critical Moments

Figure 6.4: Real-Time Alerts, Remote Access, and Replay

This visual emphasizes the key benefits of the Reolink system: receiving real-time alerts on your phone, accessing your cameras remotely from anywhere, and replaying critical moments from recorded footage.

- **Real-Time Alerts:** Receive push notifications, emails, or buzzer alerts for detected events.
- **Intelligent Detection:** Compatible Reolink IP cameras can integrate human, vehicle, and animal detection, reducing false alarms.
- **Playback:** Easily review recorded footage by date and time.

Intelligent Detection Person/Vehicle/Pet

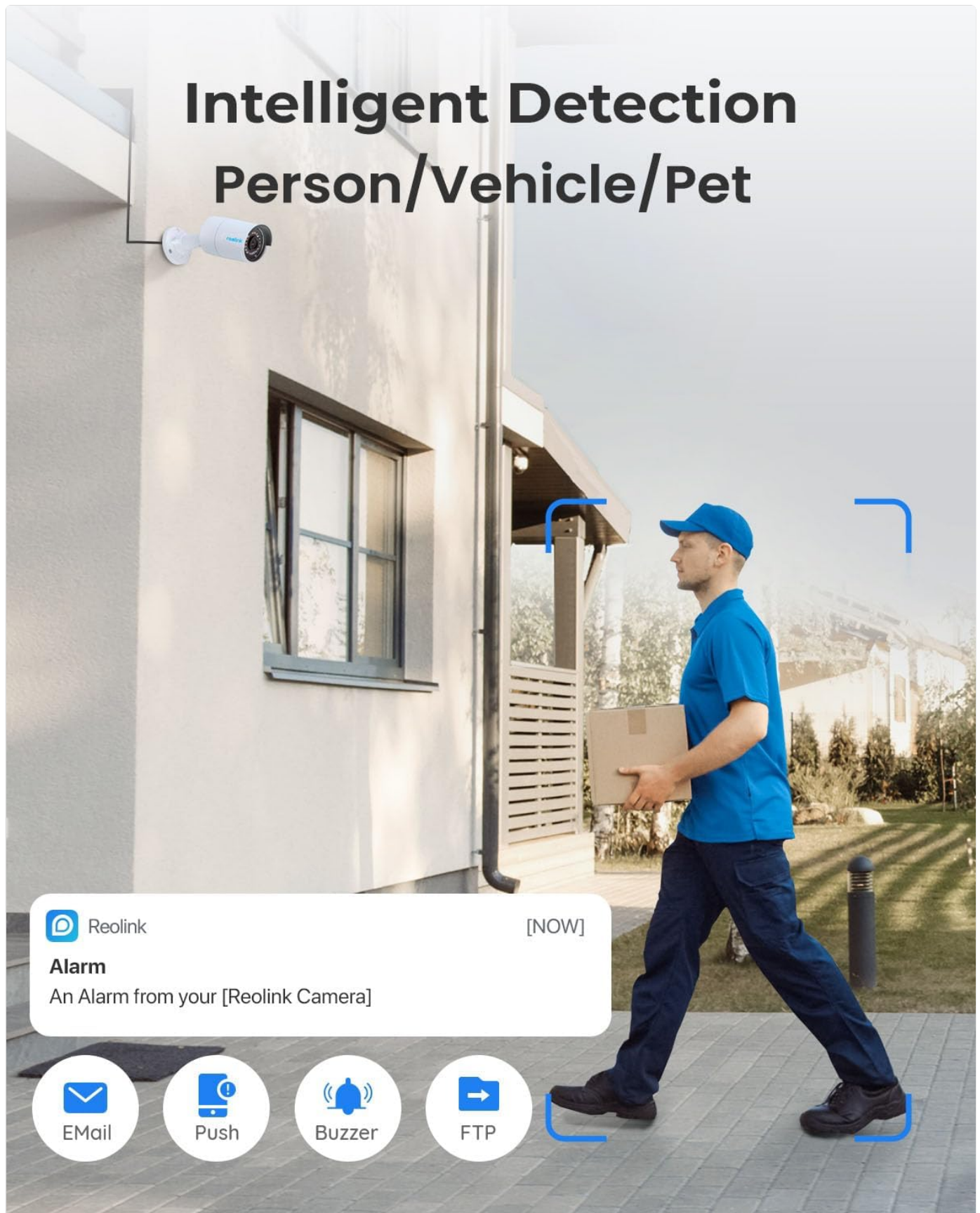


Figure 6.5: Intelligent Detection Features

This image illustrates the intelligent detection capabilities of Reolink cameras, showing an alert for a person detected, with options for email, push notifications, buzzer, and FTP uploads.

7. MAINTENANCE

Regular maintenance ensures optimal performance and longevity of your REOLINK NVR system.

- **Hard Drive Management:** The NVR automatically manages storage, overwriting older footage when the HDD is full. You can configure recording settings to optimize storage usage.
- **Firmware Updates:** Periodically check for and install the latest firmware updates for your NVR and cameras. Updates often include new features, bug fixes, and security enhancements. Refer to the Reolink website for the latest firmware.
- **Cleaning:** Keep the NVR unit clean and free from dust. Use a soft, dry cloth for cleaning. Ensure ventilation openings are clear.
- **Password Management:** Regularly change your NVR password for enhanced security.

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Video 7.1: How to reset NVR

This video provides a step-by-step guide on how to reset your Reolink NVR, which can be useful for troubleshooting or reconfiguring the device.

8. TROUBLESHOOTING

This section addresses common issues you might encounter with your REOLINK NVR. For more complex problems, please contact Reolink Support.

8.1 No Video Output on Monitor

- Ensure the HDMI/VGA cable is securely connected to both the NVR and the monitor.
- Verify the monitor input source is set correctly (HDMI/VGA).
- Try a different HDMI/VGA cable or monitor.
- Restart the NVR.

8.2 Cameras Not Displaying

- Ensure cameras are properly connected to the NVR's PoE ports or are correctly configured on your network for Wi-Fi cameras.
- Check the Ethernet cables for damage or loose connections.
- Verify that the cameras are powered on.
- Confirm that your NVR firmware is up to date and compatible with your camera models.
- If using Wi-Fi cameras, ensure they are connected to the same network as the NVR (if not directly connected to NVR's built-in Wi-Fi).

8.3 Remote Access Issues

- Ensure the NVR is connected to the internet via the LAN port.
- Verify your mobile device or computer has a stable internet connection.
- Check that the Reolink App/Client is the latest version.
- Confirm the NVR's UID is correctly added to the app/client.
- Restart both the NVR and your router.

8.4 NVR Fan Noise

- Some fan noise is normal during operation, especially under heavy load.
- Ensure the NVR is placed in a well-ventilated area and not enclosed in a tight space.
- Clean any dust accumulation from the NVR's vents.

9. SPECIFICATIONS

Key technical specifications for the REOLINK RLN8-410 NVR:

Feature	Detail
Model	RLN8-410
Brand	REOLINK
Channels	8-Channel
Compatible Cameras	REOLINK PoE IP Cameras (16MP/12MP/4K/8MP/5MP/4MP)
Internal Storage	2 TB HDD (Pre-installed)
External Storage	Supports up to 8TB via eSATA port
Connectivity	VGA, Ethernet, HDMI
Product Dimensions	10.24"L x 9.06"W x 1.61"H (260mm x 230mm x 41mm)
Item Weight	6.28 pounds (2.85 kg)
Manufacturer	Reolink Digital
First Available Date	March 17, 2016



Figure 9.1: NVR Dimensions

This image provides a detailed view of the REOLINK RLN8-410 NVR with its key dimensions (260mm length, 230mm width, 41mm height) and weight (2.0kg), offering a clear understanding of its physical size.

Why Digital over Analog?

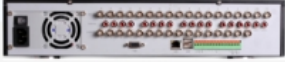
	 Reolink NVR System	 DVR System
Compatible Cams	Reolink PoE Cams Reolink WiFi IP Cams (DC Power& Partial Battery Power)	Wired Analog Camera
Maintenance	Fix bug, optimize or add features by upgrading firmware	Replace Only
Transmission Range	270ft via CAT5, 330ft via CAT6, PoE switch can extend range	Signal decay over 330ft via BNC
Wiring	A single ethernet cable transmit power, video and audio	Three differenet cables seperately transmit power, video and audio
Resolution	Up to 16MP	Up to 4K

Figure 9.2: Digital vs. Analog System Comparison

This comparison table highlights the advantages of a Reolink NVR System (digital) over a traditional DVR System (analog), covering compatible cameras, maintenance, transmission range, wiring, and resolution.

10. WARRANTY & SUPPORT

10.1 Warranty Information

REOLINK products typically come with a limited warranty. Please refer to the warranty card included with your product or visit the official REOLINK website for the most current and detailed warranty policy applicable to your region. Keep your purchase receipt as proof of purchase for warranty claims.

10.2 Customer Support

For technical assistance, troubleshooting, or any questions regarding your REOLINK RLN8-410 NVR, please contact REOLINK Customer Support. When contacting support, please provide your NVR hardware version and camera model for efficient assistance.

- **Online Support:** Visit the official REOLINK website for FAQs, user manuals (PDF versions), firmware downloads, and support tickets.
- **Email Support:** Contact REOLINK support via email for detailed inquiries.
- **Community Forums:** Engage with other REOLINK users and experts on official forums for shared knowledge and solutions.

You can find additional resources and contact information on the [REOLINK Store on Amazon](#) or the main REOLINK website.

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.

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Details