

Reolink Duo 3 PoE

Reolink Duo 3 PoE 16MP UHD Dual-Lens Security Camera User Manual

Model: Duo 3 PoE

1. INTRODUCTION

The Reolink Duo 3 PoE is an advanced 16MP Ultra-High Definition (UHD) dual-lens security camera designed to provide comprehensive surveillance with a 180-degree panoramic view. Featuring Power over Ethernet (PoE) technology, smart detection capabilities for persons, vehicles, and animals, and two-way audio, this camera offers a robust solution for monitoring your property. This manual provides detailed instructions for installation, operation, maintenance, and troubleshooting to ensure optimal performance of your Reolink Duo 3 PoE camera.

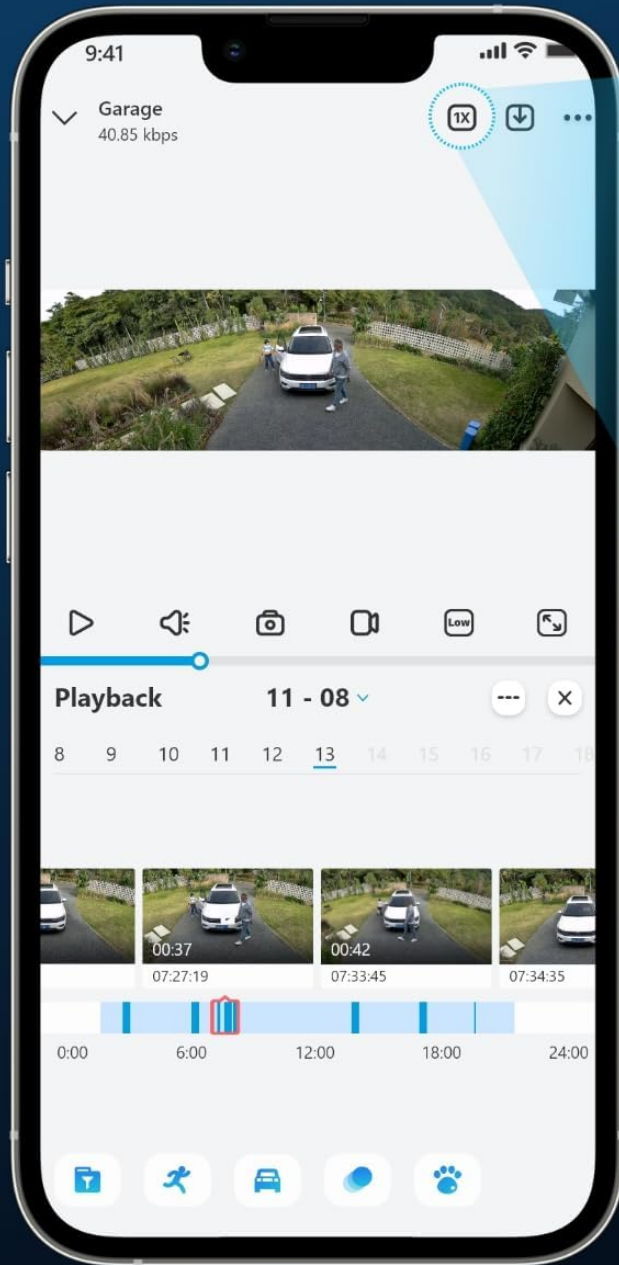
2. PACKAGE CONTENTS

- Reolink Duo 3 PoE Camera
- Mounting Plate
- Mounting Screws and Wall Anchors
- Network Cable (1 meter)
- Waterproof Lid for Network Connector
- Quick Start Guide
- Surveillance Sign

3. PRODUCT OVERVIEW

Camera Components

Easy & Smart Surveillance Experience



0.25X

0.5X

1X

2X

4X

8X

16X

Up to
16X
Playback

Figure 3.1: Detailed diagram of the Reolink Duo 3 PoE camera, highlighting its various components and connection points for easy identification and setup.

The Reolink Duo 3 PoE camera features a robust design with clearly labeled components. Key parts include the dual lenses, infrared (IR) LEDs for night vision, a spotlight for color night vision, a microphone for audio input, and a speaker for two-way audio communication. The camera also includes a microSD card slot for local storage, a reset button, an Ethernet port for PoE connection, and a DC power port for alternative power supply.

4. SETUP

4.1 Installation

Before mounting, select a suitable location that provides the desired viewing angle and is within reach of your network cable. Ensure the mounting surface is sturdy enough to support the camera's weight.



Figure 4.1: The Reolink Duo 3 PoE camera securely mounted, demonstrating its compact design and readiness for surveillance.

4.2 Powering the Camera

PoE Connection (Recommended)

The Reolink Duo 3 PoE camera supports Power over Ethernet (PoE), allowing both power and data transmission through a single Ethernet cable. Connect one end of an Ethernet cable to the camera's Ethernet port and the other end to a PoE-enabled switch, PoE injector, or a Reolink NVR's PoE port. This simplifies installation by eliminating the need for a separate power adapter.

DC Power Connection (Optional)

If PoE is not available, you can power the camera using a 12V DC power adapter (not included). Connect the DC power adapter to the camera's power port. Ensure the power adapter meets the camera's power requirements to prevent damage.

4.3 Initial Setup

After powering on the camera, complete the initial setup using the Reolink App on your smartphone or the Reolink Client software on your computer. Scan the QR code on the camera or its packaging to add the device. Alternatively, if connected to a Reolink NVR, you can access the camera's settings directly through the NVR's user interface.

5. OPERATION

5.1 16MP UHD and Color Night Vision

Equipped with two 4K image sensors, the Reolink Duo 3 PoE delivers stunning 16MP UHD clarity, capturing intricate details that might otherwise be missed. Its F1.6 super aperture and 1/2.7" CMOS sensor enhance light intake, while six infrared LED lights provide clear black and white night vision up to 100 feet. The integrated spotlights enable full-color night vision, illuminating dark areas for enhanced visibility.

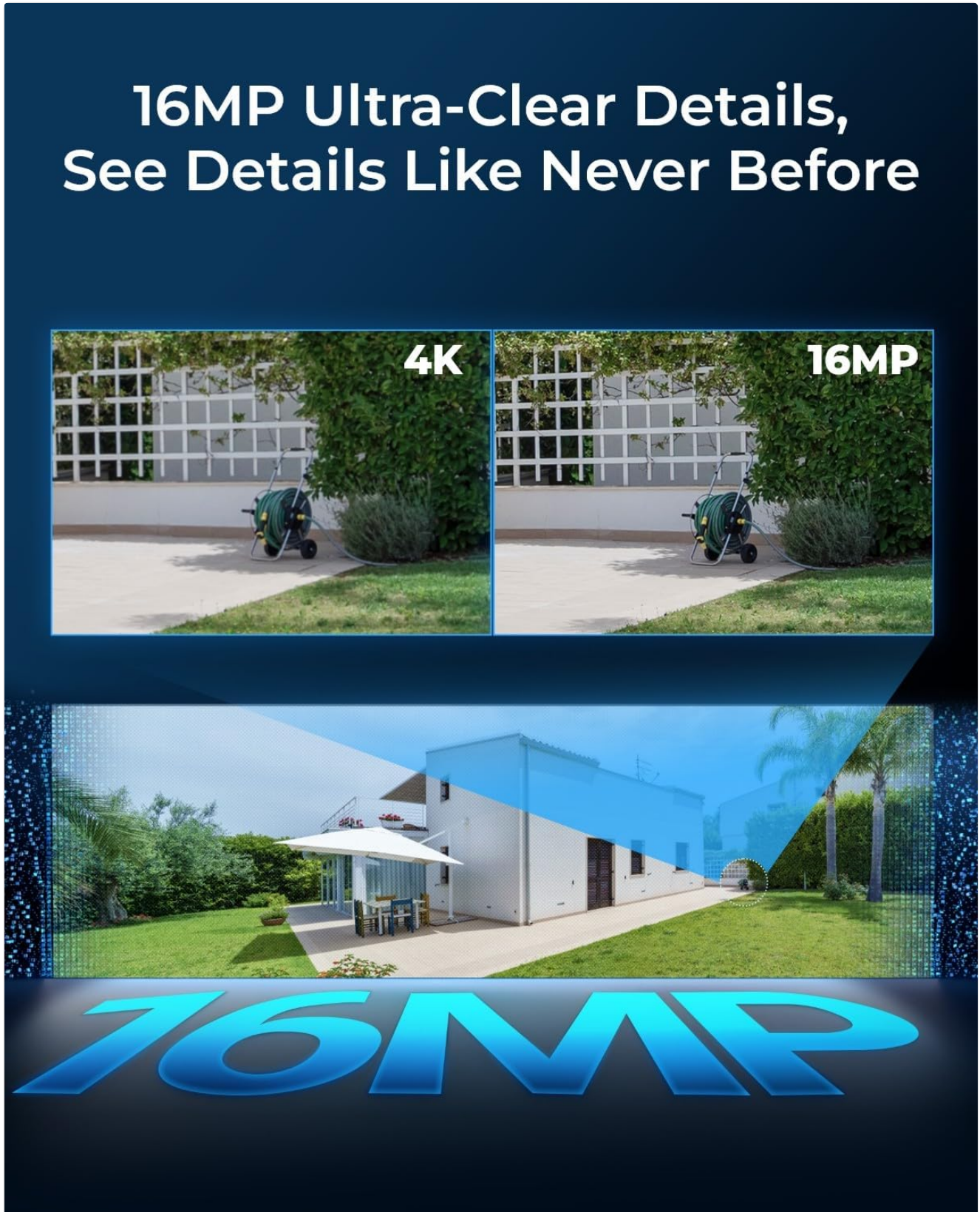


Figure 5.1: Visual comparison demonstrating the superior detail captured by 16MP UHD resolution compared to standard 4K.

See Through the Darkness with F1.6

Multiple Night Vision Modes Supported

F1.6

Aperture

6500K

Spotlight



Figure 5.2: The camera's F1.6 aperture enhances night vision, capturing more light for clearer images in dark environments.

Smart Person/Vehicle/ Animal Detection

AI Noise Reduction for 2-Way Audio

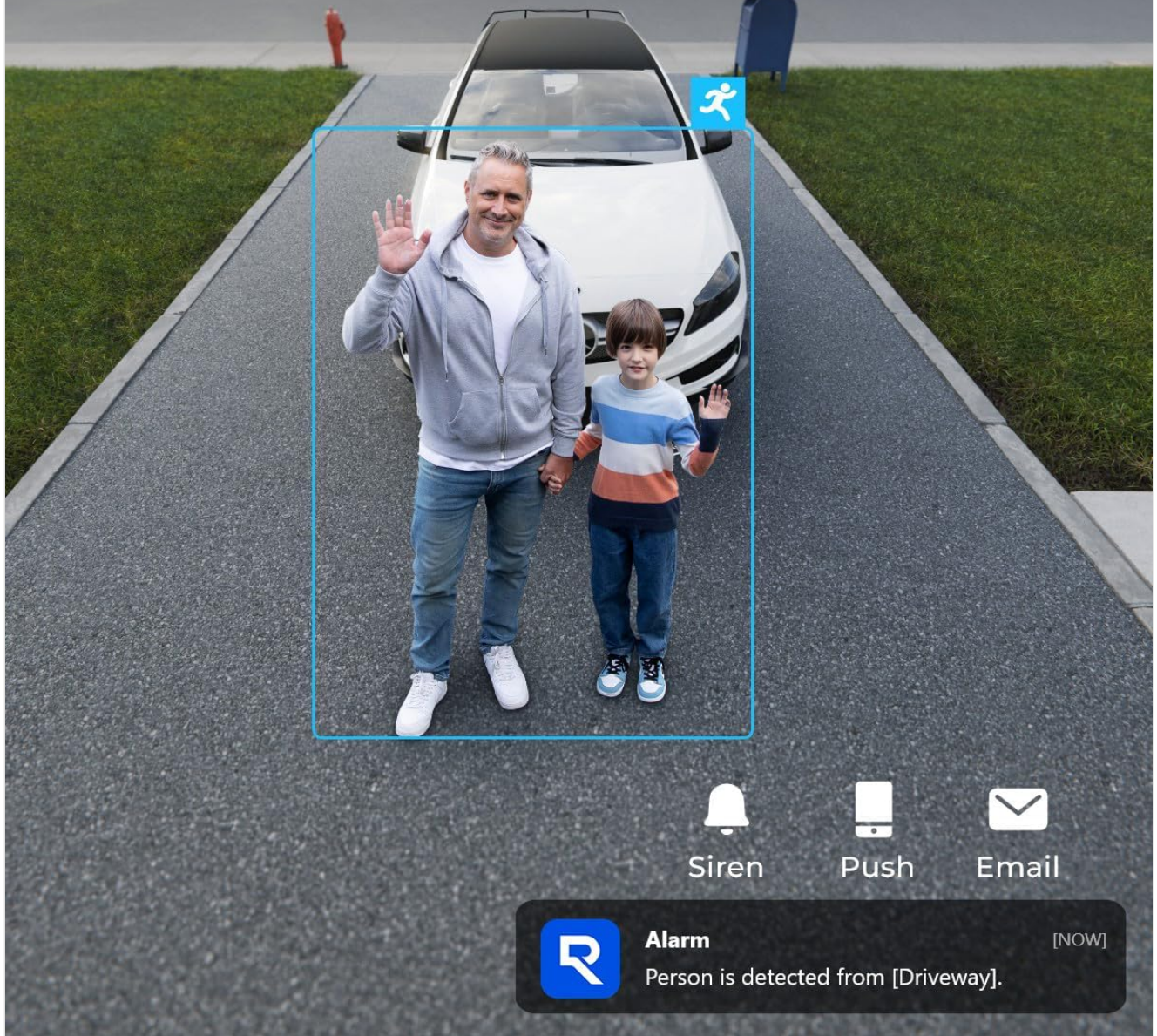


Figure 5.3: Demonstrates the camera's ability to switch between black and white infrared night vision and full-color night vision using its built-in spotlights.

5.2 180° Panoramic View and Motion Tracking

The camera's dual-image stitching algorithms, powered by a 4-core SoC, create a seamless 180-degree panoramic view with minimal distortion and reduced blind spots. The innovative Motion Track feature captures the complete movement of a detected target within a single image, eliminating the need to review extensive video footage to find specific events.

180° Super Coverage, Every Corner Secured

Wide Pano View: 2-in-1 Stitch Algorithm



180°



Figure 5.4: The camera's 180-degree panoramic capability, combining two views into one expansive image for comprehensive coverage.

One Image, Full Motion Unveiled

Get Accurate Information with Less Time



Motion Track



Email



Figure 5.5: The Motion Track feature consolidates a target's movement over time into a single, clear image, simplifying event review.

5.3 Smart Detection and Two-Way Audio

The Reolink Duo 3 PoE intelligently distinguishes between persons, vehicles, and animals, significantly reducing false alarms triggered by irrelevant movements. Upon detection, you receive instant push notifications or email alerts. The built-in two-way audio feature allows you to communicate directly with individuals near the camera via the Reolink App or Client, enabling real-time interaction.

Works with Home Assistant



Figure 5.6: Smart detection accurately identifies persons, vehicles, and animals, minimizing unnecessary alerts and enhancing security.

5.4 Flexible Storage Options

The camera supports local storage via a microSD card (up to 256GB, not included), providing continuous recording without additional fees. For extended recording and centralized management, the camera can be connected to a Reolink Network Video Recorder (NVR), enabling 24/7 recording and easy access to footage.



Figure 5.7: Overview of the camera's flexible storage options, including microSD card support and compatibility with Reolink NVRs for continuous recording.

5.5 Smart User Experience

Enhance your surveillance efficiency with multiple smart features accessible through the Reolink App/Client. These include remote live viewing from anywhere, customizable motion zones to focus on specific areas, and smart playback with up to 16x speed to quickly review recorded events. The camera also integrates seamlessly with smart home systems like Home Assistant, offering advanced automation possibilities.

Flexible Storage Options, No Extra Fees Needed

Up to
256GB

microSD Card (not included)



Figure 5.8: The Reolink Duo 3 PoE camera's compatibility with Home Assistant, enabling advanced smart home automation and centralized control.

6. MAINTENANCE

To ensure the longevity and optimal performance of your Reolink Duo 3 PoE camera, regular maintenance is recommended.

6.1 Weather Resistance

The camera is rated IP67 weatherproof, meaning it is protected against dust ingress and can withstand immersion in water

up to 1 meter for 30 minutes. This makes it suitable for outdoor use in various weather conditions. Ensure all cable connections are properly sealed using the provided waterproof lid to maintain its weather resistance.

6.2 Cleaning

Periodically clean the camera lens and housing with a soft, damp cloth to remove dust, dirt, or water spots that may affect image clarity. Avoid using harsh chemicals or abrasive materials that could scratch the lens or damage the camera's finish.

7. TROUBLESHOOTING

7.1 Camera Not Powering On

- **Check Power Source:** Ensure the PoE switch/injector/NVR is powered on and functioning correctly. If using a DC adapter, verify it is properly connected and providing power.
- **Cable Connection:** Inspect the Ethernet cable for any damage and ensure it is securely connected to both the camera and the network device.

7.2 Image Quality Issues

- **Lens Cleanliness:** Clean the camera lenses with a soft, lint-free cloth to remove any smudges or dirt.
- **Resolution Settings:** Verify that the camera's resolution settings in the Reolink App/Client or NVR UI are set to the desired level (e.g., 16MP UHD).
- **Lighting Conditions:** Ensure adequate lighting for optimal image quality, especially during night vision. Adjust spotlight settings if necessary.

7.3 NVR Compatibility and Display Issues

Q: Which Reolink NVRs are compatible with this camera?

A: We recommend Reolink NVRs with hardware version Hw_N5MB01, Hw_N6MB01, or Hw_N7MB01. If your NVR's hardware version is Hw_H3MB18, Hw_N3MB01, or Hw_N2MB02, you may need to upgrade its firmware to the latest version for full compatibility. Additionally, for optimal preview, set the main stream resolution to 4096x1536. If the mainstream resolution is set to 7680x2160, the image may not display successfully. Please note that third-party NVR/software compatibility is not guaranteed.

8. SPECIFICATIONS

Feature	Specification
Brand	REOLINK
Model Name	Reolink Duo 3 PoE
Connectivity Technology	Wired
Compatible Devices	Smartphone
Number of Items	1
Number of Channels	2
Form Factor	Bullet
Material	Plastic

Feature	Specification
Wattage	6 watt
Item Dimensions (L x W x H)	19.5 x 10.3 x 5.6 centimeters
Water Resistance Level	Waterproof
Manufacturer	Reolink
Part Number	Duo 3 PoE
Product Dimensions	19.5 x 10.3 x 5.6 cm; 680 g
Item Model Number	Duo 3 PoE
Style	16MP UHD Dual-Lens PoE Security Camera
Usage	Surveillance
Batteries Included?	No
Batteries Required?	No
Weight	680 Grams
ASIN	B0CM34VG3X
Guaranteed Software Updates Until	Unknown
First Available Date	February 21, 2024

9. WARRANTY AND SUPPORT

9.1 Warranty Information

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 the most up-to-date warranty terms and conditions specific to your region.

9.2 Customer Support

For technical assistance, troubleshooting, or any product-related inquiries, please contact Reolink customer support through their official website or the Reolink App/Client. You can find FAQs, user forums, and contact information for direct support.