REOLINK Reolink Duo 3V PoE

REOLINK Duo 3V PoE Security Camera Instruction Manual

Model: Reolink Duo 3V PoE

1. Product Overview

The REOLINK Duo 3V PoE is a state-of-the-art 16MP UHD dual-lens security camera designed for comprehensive surveillance. It offers an ultra-wide 180° panoramic field of view, effectively combining the coverage of two cameras into a single unit. This camera features advanced AI detection capabilities for people, vehicles, and animals, along with a unique motion track summary feature that sends a picture summarizing all movements to your Reolink App or email.

Built for durability, the camera boasts IK10 vandal-proof housing and an IP67 weatherproof rating, ensuring reliable performance in various outdoor environments, including high-risk areas. It supports multiple night vision modes, including infrared and color night vision, enhanced by a large F1.6 aperture for superior low-light performance. The camera also includes two-way talk functionality and offers flexible recording options to microSD card, Reolink NVR, FTP, or NAS.



Figure 1: REOLINK Duo 3V PoE Security Camera

2. What's in the Box

Please check the package contents to ensure all items are present and in good condition.

- REOLINK Duo 3V PoE Camera x 1
- Waterproof Lid x 1
- Pack of Screws x 1
- Mounting Template x 1
- 1m Ethernet Cable x 1
- Surveillance Sticker x 1

- Quick Start Guide x 1

3. Installation Guide

3.1 Important Installation Tips

- Avoid facing the camera directly towards any strong light source, such as direct sunlight, as this can affect image quality.
- Avoid placing the camera in positions where weather conditions (e.g., heavy rain, snow) can directly hit and cover the lens, despite its weatherproof rating.



Figure 2: Installation considerations for light and weather exposure.

3.2 Mounting the Camera

1. **Prepare the Ceiling:** Find a suitable place on the ceiling for installation. Stick the provided mounting template onto the ceiling and mark the drill holes. Drill holes accordingly and insert the drywall anchors into the holes.



Figure 3: Using the mounting template and drilling holes.

2. **Remove Dome Cover:** Use the provided hex key to unscrew and remove the dome cover from the camera base.



Figure 4: Unscrewing the dome cover.

Note: Keep the protective film on the dome cover until the installation is complete to prevent scratches.

3. **Secure the Base:** Pass the camera cable through the cable notch on the mount base. Secure the camera base to the ceiling using the provided screws.



Figure 5: Securing the camera base.

4. **Adjust Viewing Angle:** Adjust the camera's internal module to achieve the optimal viewing angle. The camera supports 360° horizontal and 57° vertical manual adjustments.



Figure 6: Manual adjustment of the camera lens.

5. **Attach Dome Cover:** Once the camera is secured and adjusted, securely attach the dome cover back onto the camera base using the screws.



Figure 7: Reattaching the dome cover.

3.3 Powering the Camera

The REOLINK Duo 3V PoE camera can be powered via Power over Ethernet (PoE) or a DC 12V power adapter (not included).

- **PoE Connection:** Connect the camera to a PoE switch or a Reolink NVR using an Ethernet cable. This provides both power and data connectivity.
- **DC Connection:** Alternatively, connect the camera to a DC 12V power adapter (not included) and an Ethernet cable to a router for data.



Figure 8: Connection options for the camera.

4. Setup and Configuration

After physical installation, proceed with the initial setup to configure your camera for optimal performance.

1. **Power Up:** Ensure the camera is powered on using either PoE or the DC adapter.
2. **Initial Setup:** Complete the initial setup by scanning the QR code using the Reolink App/Client or by directly accessing the camera through the NVR user interface.
3. **NVR Compatibility:** For optimal performance and to utilize all smart features, it is recommended to use a compatible Reolink NVR. Compatible NVRs include those with hardware versions Hw_N5MB01, Hw_N6MB01, or Hw_N7MB01. If your NVR has hardware version Hw_H3MB18, Hw_N3MB01, or Hw_H2MB02, you may need to upgrade the firmware to the latest version. Ensure the mainstream resolution is set to 4096*1536 for proper display; 7680*2160 resolution may not display successfully on some NVRs.

5. Key Features

5.1 16MP UHD Dual-Lens with 180° Panoramic View

The camera's dual-lens design provides an expansive 180° panoramic field of view, capturing ultra-high-definition 16MP visuals. This wide coverage minimizes blind spots and provides a comprehensive overview of your monitored area, effectively replacing the need for multiple cameras in certain scenarios.

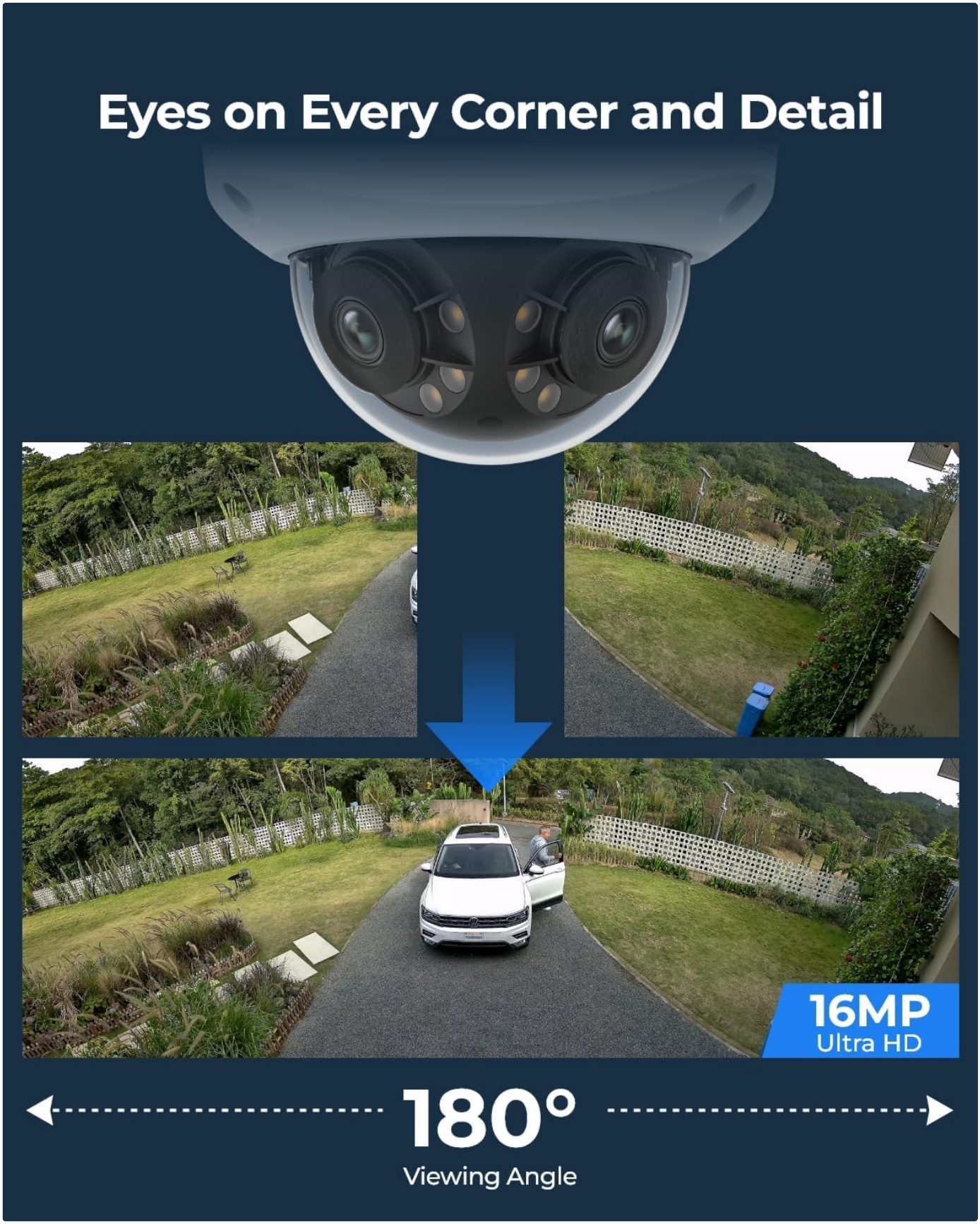


Figure 9: Panoramic 180° view captured by the dual-lens camera.

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Video 1: Overview of the REOLINK Duo 3V PoE 16MP UHD Dual-Lens PoE Security Camera, showcasing its features and capabilities.

5.2 AI Detection & Motion Track

The camera utilizes advanced AI to intelligently detect and differentiate between people, vehicles, and animals, reducing false alarms. The groundbreaking motion track technology provides a 15-second picture summary of all detected

movements, sent directly to your Reolink App or email, eliminating the need to download full video clips to review events.

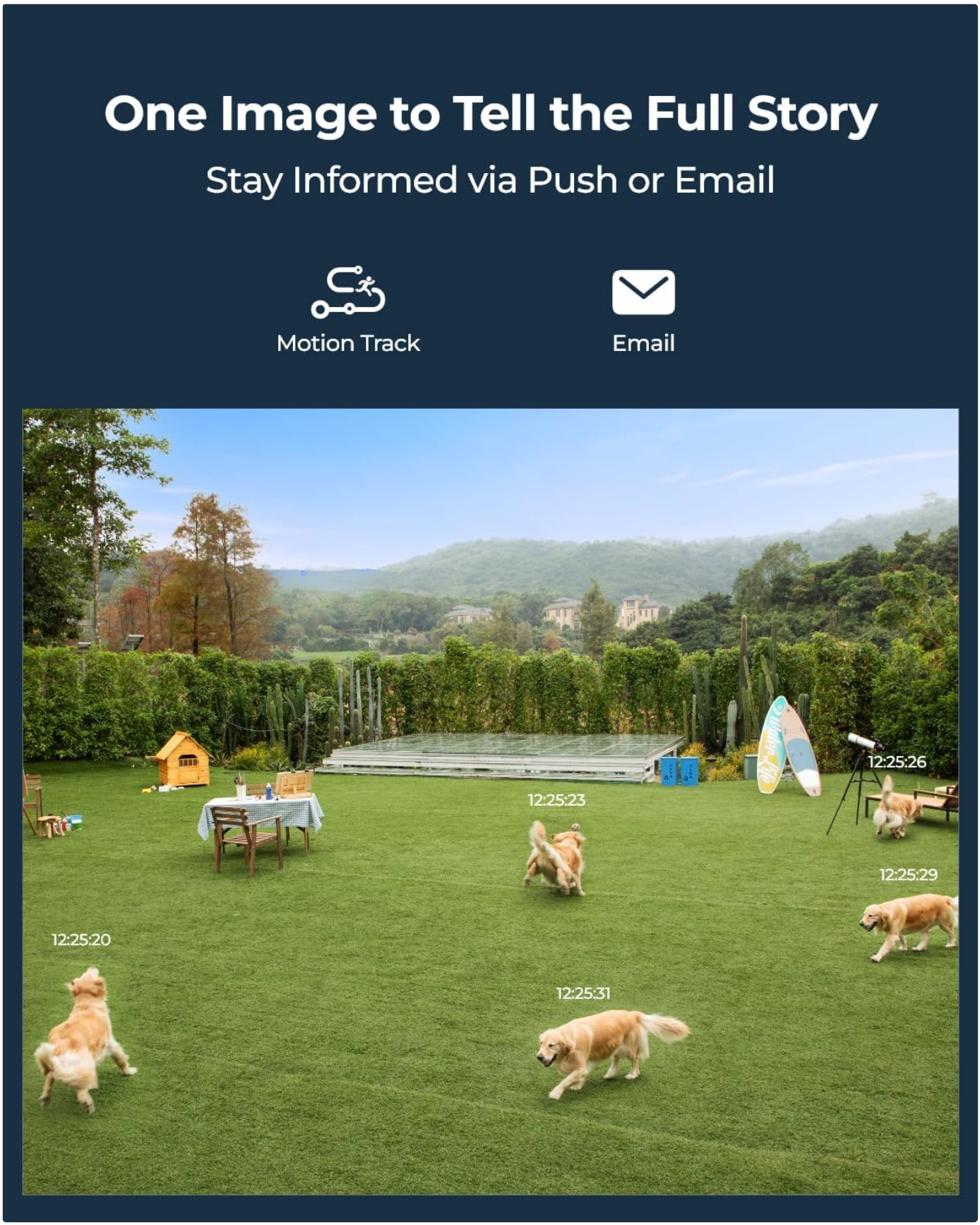


Figure 10: Motion track feature providing a summary image of activity.

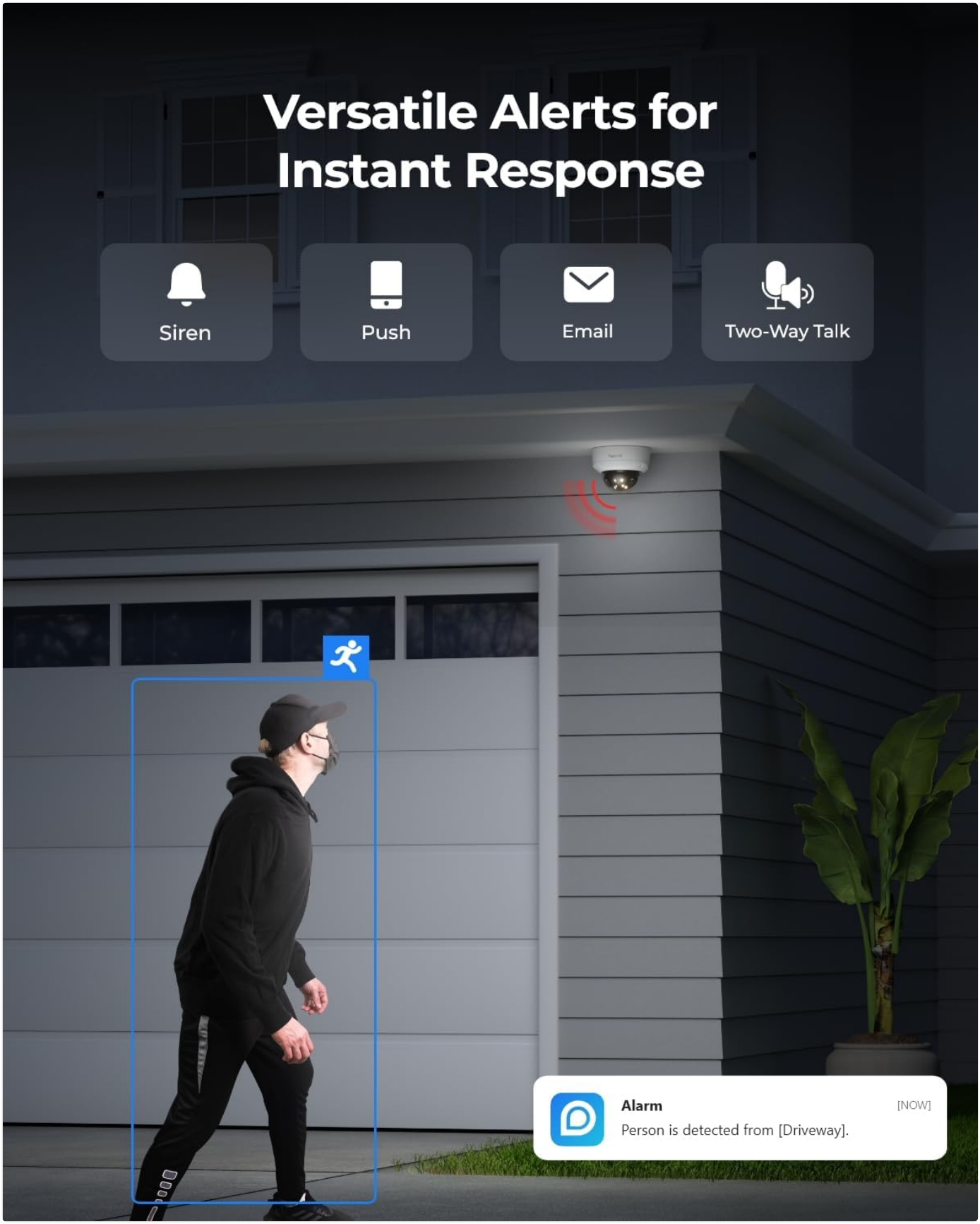


Figure 11: Alerts for detected motion, including siren, push notifications, email, and two-way talk.

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Video 2: An introductory video to the Reolink camera, highlighting its smart detection and alert features.

5.3 Multiple Night Vision Modes

The camera offers flexible night vision options, allowing you to switch between infrared night vision and color night vision. You can configure motion-triggered or scheduled activation of the built-in spotlights and adjust their brightness. The large

F1.6 aperture significantly enhances night vision performance in low-light conditions, providing clearer and more detailed images.



Figure 12: Comparison of infrared and color night vision capabilities.

5.4 IK10 Vandal-Proof & IP67 Weatherproof

Designed for robust outdoor use, the camera features IK10 vandal-proof housing, providing strong resistance against impacts and tampering. Its IP67 weatherproof rating ensures continuous operation in various weather conditions, making it

suitable for all outdoor scenarios, including high-risk areas.

6. Operation

6.1 Multi-Platform Access

Access your camera's live view and recordings from multiple platforms. You can use the Reolink App on your smartphone, the Reolink Client software on your computer, or view directly through a compatible Reolink NVR.

6.2 Two-Way Talk

The built-in microphone and speaker enable two-way audio communication. This allows you to listen in on the monitored area and speak through the camera, which is useful for deterring intruders or communicating with visitors.

6.3 Recording Options

The camera offers versatile recording storage options:

- **microSD Card:** Insert a microSD card (not included) directly into the camera for local storage of recordings.
- **Reolink NVR:** Connect the camera to a Reolink Network Video Recorder for centralized and extended recording storage.
- **FTP/NAS:** Configure the camera to upload recordings to an FTP server or Network Attached Storage (NAS) for remote and secure backup.

The camera utilizes H.265 high-efficiency video compression for optimized storage efficiency across all recording methods.

7. Maintenance

- **Cleaning:** Regularly clean the camera lens and housing with a soft, damp cloth to ensure clear image quality and prevent debris buildup. Avoid abrasive cleaners.
- **Firmware Updates:** Periodically check for and install the latest firmware updates for your camera via the Reolink App or Client. Firmware updates often include performance improvements, bug fixes, and new features.
- **Cable Inspection:** Inspect the network cable and power connections periodically for any signs of wear or damage, especially in outdoor installations.

8. Troubleshooting

This section addresses common issues you might encounter with your REOLINK Duo 3V PoE camera.

8.1 Image Display Issues with NVR

If the image is not displaying successfully or appears distorted on your NVR, consider the following:

- **NVR Compatibility:** Ensure your Reolink NVR's hardware version is compatible (Hw_N5MB01, Hw_N6MB01, Hw_N7MB01). Older NVR versions (Hw_H3MB18, Hw_N3MB01, Hw_H2MB02) may require a firmware upgrade.
- **Resolution Setting:** Verify that the mainstream resolution setting on your NVR is set to 4096*1536. Higher resolutions like 7680*2160 may not be supported by all NVRs and can cause display issues.
- **Third-Party NVR/Software:** Compatibility with third-party NVRs or software is not guaranteed. For full functionality, use Reolink's dedicated systems.

8.2 Image Orientation (Upside Down)

If the camera image appears upside down, especially after ceiling mounting, check the camera's settings within the Reolink App or Client for an image flip/mirror option. While the camera supports manual physical rotation, software-based image orientation adjustment is typically available for digital correction.

8.3 No Pan & Tilt Support

The Duo 3V PoE model does not support motorized pan and tilt (PT) functions. The camera comes with a built-in rotation bracket that allows for manual adjustment of 360° horizontally and 57° vertically during installation. Once installed, its viewing angle is fixed unless manually re-adjusted.

9. Technical Specifications

Feature	Specification
Model Name	Duo 3V PoE
Effective Still Resolution	16 MP
Viewing Angle	180 Degrees (Panoramic)
Indoor/Outdoor Usage	Outdoor, Indoor
Connectivity Technology	Ethernet (PoE)
Power Source	Corded Electric (PoE or DC 12V adapter)
Controller Type	Reolink APP
Mounting Type	Ceiling Mount
International Protection Rating	IP67 (Weatherproof)
Vandal Resistance	IK10 (Vandal-Proof)
Special Features	Easy to Install, Night Vision, Vandal Proof, Time-Lapse, 2-Way Talk
Product Dimensions	5.43 x 5.43 x 3.94 inches
Item Weight	2.31 pounds

10. Warranty and Support

REOLINK products typically come with a limited warranty. For detailed warranty information, including coverage period and terms, please refer to the official REOLINK website or the warranty card included with your product.

For technical support, troubleshooting assistance, or any product-related inquiries, please visit the official REOLINK support page at support.reolink.com. You can find FAQs, troubleshooting hints, and contact information for customer service.

You may also find helpful resources and community forums on the REOLINK website to assist with common questions and advanced configurations.

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