Real HD 4K NVR Kits

Real HD 4K 8MP 8-Channel PoE IP Security Camera System

MODEL: 4K NVR KITS

Instruction Manual

1. INTRODUCTION

This manual provides detailed instructions for the installation, operation, and maintenance of your Real HD 4K 8MP 8-Channel PoE IP Security Camera System. Please read this manual thoroughly before installation and retain it for future reference.

Figure 1: Real HD 4K 8MP 8-Channel PoE IP Security Camera System, including the NVR and six dome cameras.

2. WHAT'S IN THE BOX

Verify that all components are present in the package:

What's in the box?

8ch PoE NVR ×1

IP Camera X6

Ethernet Cable X6

Hard Drive ×1 (2TB)

Manual X6

Waterproof Lid X6

Mounting Template X6

Screws X6

Figure 2: All components included in the product package.

- 1x 8-Channel PoE NVR with 2TB HDD
- 6x 8MP IP PoE Outdoor Vandal Proof Dome Cameras
- 6x Ethernet Cables
- 1x Quick Start Guide (Manual)
- 1x Waterproof Lid
- 1x Mounting Template
- Screws and other mounting hardware

3. PRODUCT OVERVIEW AND FEATURES

The Real HD 4K 8MP 8-Channel PoE IP Security Camera System offers advanced surveillance capabilities for outdoor environments. Key features include:

- **4K 8MP Resolution:** Stunning ultra-high quality 4K (8-Megapixel / 3840*2160) resolution at 20fps.
- **8-Channel PoE NVR:** Comes with a pre-installed 2TB surveillance hard drive, supporting 8-channel

recording and the latest H.265 video compression.

- **Full Color PoE Outdoor IP Cameras:** Six wired 8MP IP PoE outdoor vandal-proof dome cameras with enhanced low-light capability.
- **Human Detection:** Advanced human detection features to minimize false alarms.
- **Audio Recording:** Each camera is equipped with a built-in microphone for audio recording.
- **Wide Viewing Angle:** Super-wide 102° viewing angle to cover more area.
- **Advanced H.265 Compression:** Saves hard drive space for longer recording times without sacrificing video quality.
- **Weather Proof:** Designed for outdoor usage with weather-proof features.

Figure 3: Visual comparison of 4K Ultra HD resolution versus lower resolutions.

4. Setup

4.1 NVR and Camera Connection

- Connect the PoE IP cameras to the NVR using the provided Ethernet cables. The NVR's PoE ports will supply both power and data to the cameras.
- Connect the NVR to a monitor or TV via HDMI or VGA for local viewing.

- Connect the NVR to your router using an Ethernet cable for remote access.
- Plug the NVR into a power outlet.

4.2 Mobile App Setup (Guard Viewer)

For remote viewing and control, download the "Guard Viewer" app on your smartphone or tablet.

- Download the "Guard Viewer" app from your device's app store (App Store for iOS, Google Play for Android).
- Open the app and register an account if you don't have one.
- Scan the QR Code displayed on the NVR's monitor or on the NVR unit itself to add your device to the app.
- Follow the on-screen prompts to complete the setup, including setting a secure password for your NVR.

Figure 4: Remote access to your security system via the Guard Viewer mobile application.

5. OPERATING INSTRUCTIONS

5.1 Live View and Playback

- Access live camera feeds through the connected monitor or the Guard Viewer app.

- Use the playback function on the NVR or app to review recorded footage stored on the 2TB HDD.

5.2 Recording Modes

- **24/7 Continuous Recording:** The NVR is pre-configured for continuous recording.
- **Motion-Triggered Recording:** Configure motion detection settings to record only when motion is detected, saving storage space.

Figure 5: The NVR supports 24/7 recording with its built-in 2TB HDD, expandable up to 10TB.

5.3 Motion Detection and Alerts

- Enable human detection in the NVR settings or through the app to receive alerts only for human activity.
- Customize motion detection zones and sensitivity to reduce false alarms.
- Receive instant push notifications on your mobile device when motion is detected.

5.4 Night Vision

The cameras feature enhanced low-light capability and night color technology for clear surveillance in various lighting conditions.
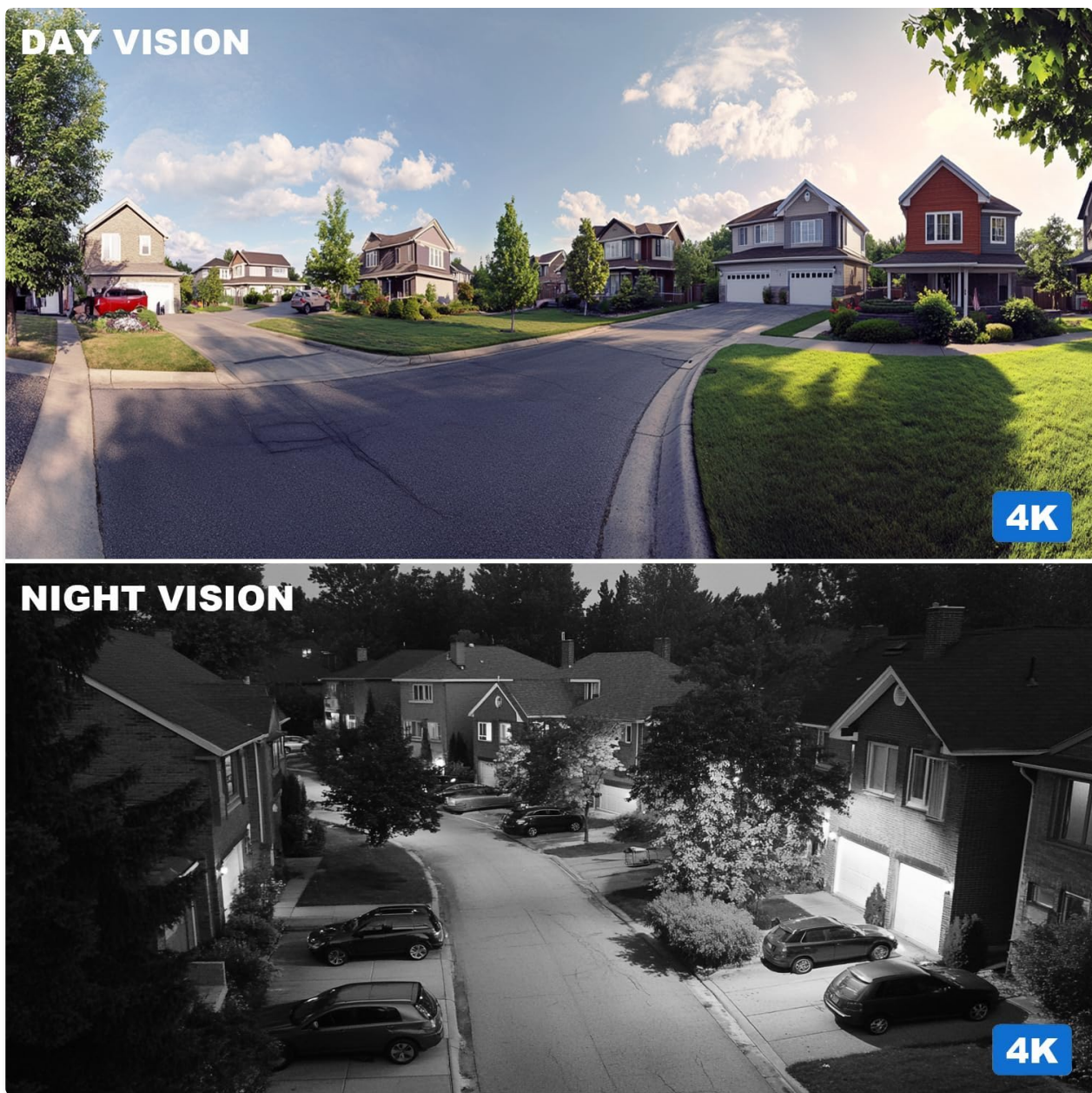
Figure 6: Comparison of day and night vision capabilities of the 4K security camera.

6. SPECIFICATIONS

Feature	Detail
Indoor/Outdoor Usage	Outdoor
Video Capture Resolution	4K (3840*2160)
Number of Channels	8
Frame Rate	20fps
Viewing Angle	102 Degrees
Low Light Technology	Night Color
Audio Visual Recording Capabilities	Video (with built-in microphone)

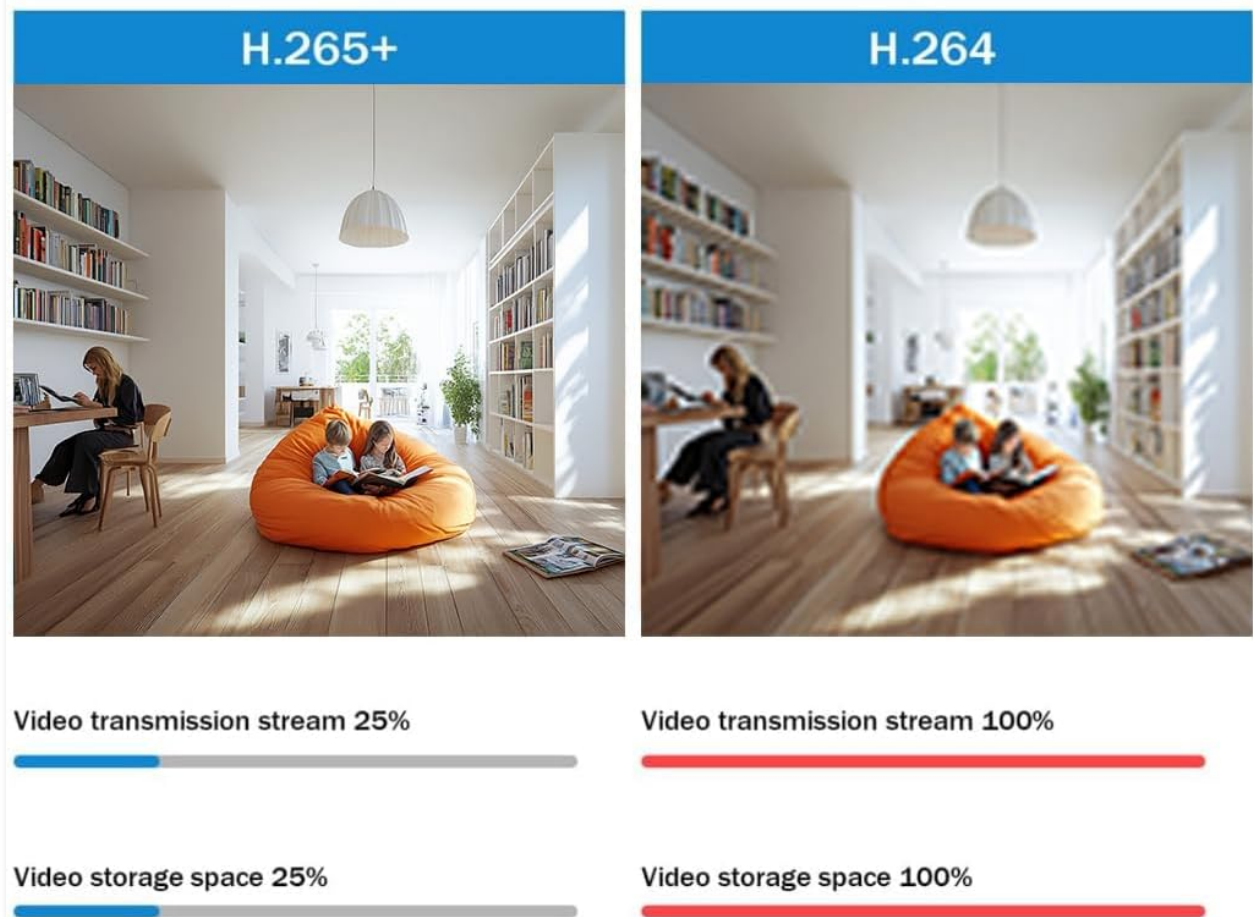| Connectivity Technology	Wired (PoE)
Special Feature	Weather Proof
NVR Storage	2TB HDD (Pre-installed)
Video Compression	H.265

Figure 7: H.265+ compression technology reduces storage requirements while maintaining video quality.

7. MAINTENANCE

- Regularly clean camera lenses with a soft, damp cloth to ensure clear image quality.
- Check cable connections periodically to ensure they are secure and free from damage.
- Ensure the NVR is in a well-ventilated area to prevent overheating.
- Keep the NVR firmware updated to benefit from the latest features and security enhancements.

8. TROUBLESHOOTING

- **No Video Feed:** Check power connections to the NVR and cameras. Verify Ethernet cables are securely connected. Ensure the monitor/TV input is correctly selected.
- **Poor Image Quality:** Clean camera lenses. Check for obstructions in the camera's field of view. Adjust camera settings (brightness, contrast, resolution) via the NVR or app.

- **False Motion Alarms:** Adjust motion detection sensitivity and detection zones in the NVR settings or app.
- **Remote Access Issues:** Ensure the NVR is connected to the internet. Verify network settings (IP address, DNS). Check your router's firewall settings.

9. Warranty & Support

For technical support, please contact the seller directly. Support hours are typically 9 am-5 pm CST. Refer to your purchase documentation for specific warranty details.