ANNKE AU-N48PAW2-V1-94BN-P

ANNKE 4K PoE Security Camera System User Manual

Model: AU-N48PAW2-V1-94BN-P

1. Introduction

This manual provides comprehensive instructions for the installation, operation, and maintenance of your ANNKE 4K PoE Security Camera System. This system includes a 12MP H.265+ Network Video Recorder (NVR) with a 2TB Hard Disk Drive (HDD) and four 8MP Ultra HD IP Dome Cameras. It features AI smart detection, 100ft night vision, IP67 waterproof and IK08 vandal-proof ratings, and remote access capabilities.

2. What's in the Box

Verify that all components are present in your package:

- 1 x 12MP 8-Channel PoE NVR
- 4 x 4K IP PoE Cameras
- 2 x 30m/100ft Network Cables
- 2 x 18m/60ft Network Cables
- 1 x NVR Power Cable
- 1 x 5.9ft/1.8m HDMI Cable
- 1 x 3.2ft/1m Ethernet Cable
- 1 x USB Mouse
- 1 x User Manual (this document)
- 4 x Waterproof Lids
- 4 x Screws
- 1 x Wall Sticker

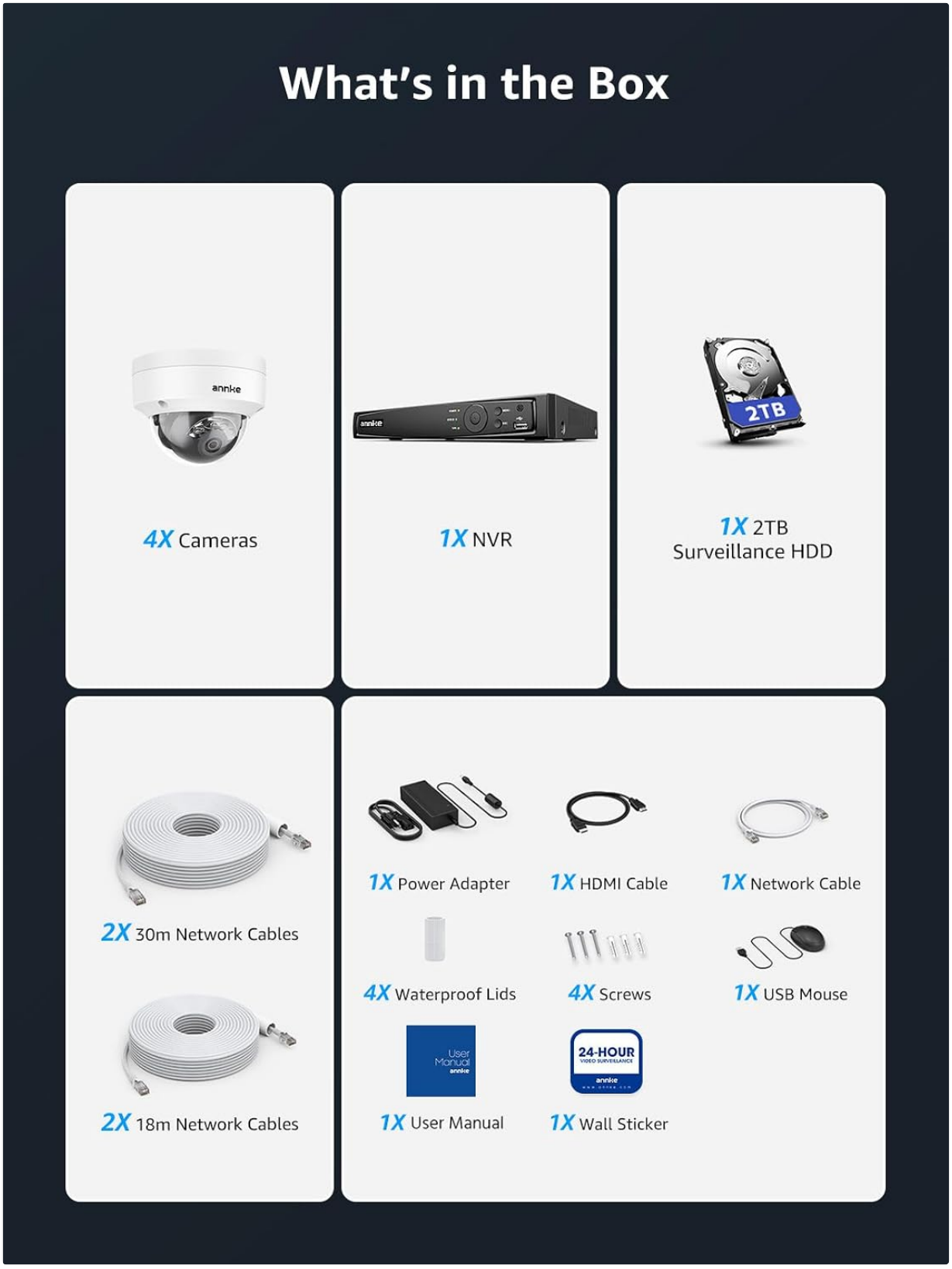


Image: All components included in the ANNKE 4K PoE Security Camera System package.

3. Setup

3.1 System Overview

The ANNKE 4K PoE Security Camera System utilizes Power over Ethernet (PoE) technology, simplifying installation by providing both power and data connectivity through a single network cable for each camera.



Image: The ANNKE 4K PoE Security Camera System components.

3.2 Installation Steps

1. **Install Cameras:** Mount the 4K IP PoE cameras in desired locations. Ensure they are positioned to cover the intended surveillance areas. The cameras are IP67 weatherproof and IK08 vandal-proof, suitable for outdoor installation.
2. **Connect Cameras to NVR:** Use the provided network cables to connect each camera directly to the PoE ports on the back of the NVR. No separate power cables are needed for the cameras.
3. **Connect NVR to Power and Network:** Plug the NVR power cable into an electrical outlet. Connect the NVR to your router using the provided Ethernet cable for internet access and remote viewing.
4. **Connect NVR to Display (Optional):** Connect the NVR to a monitor or TV using the HDMI cable to view live feeds and configure settings directly.

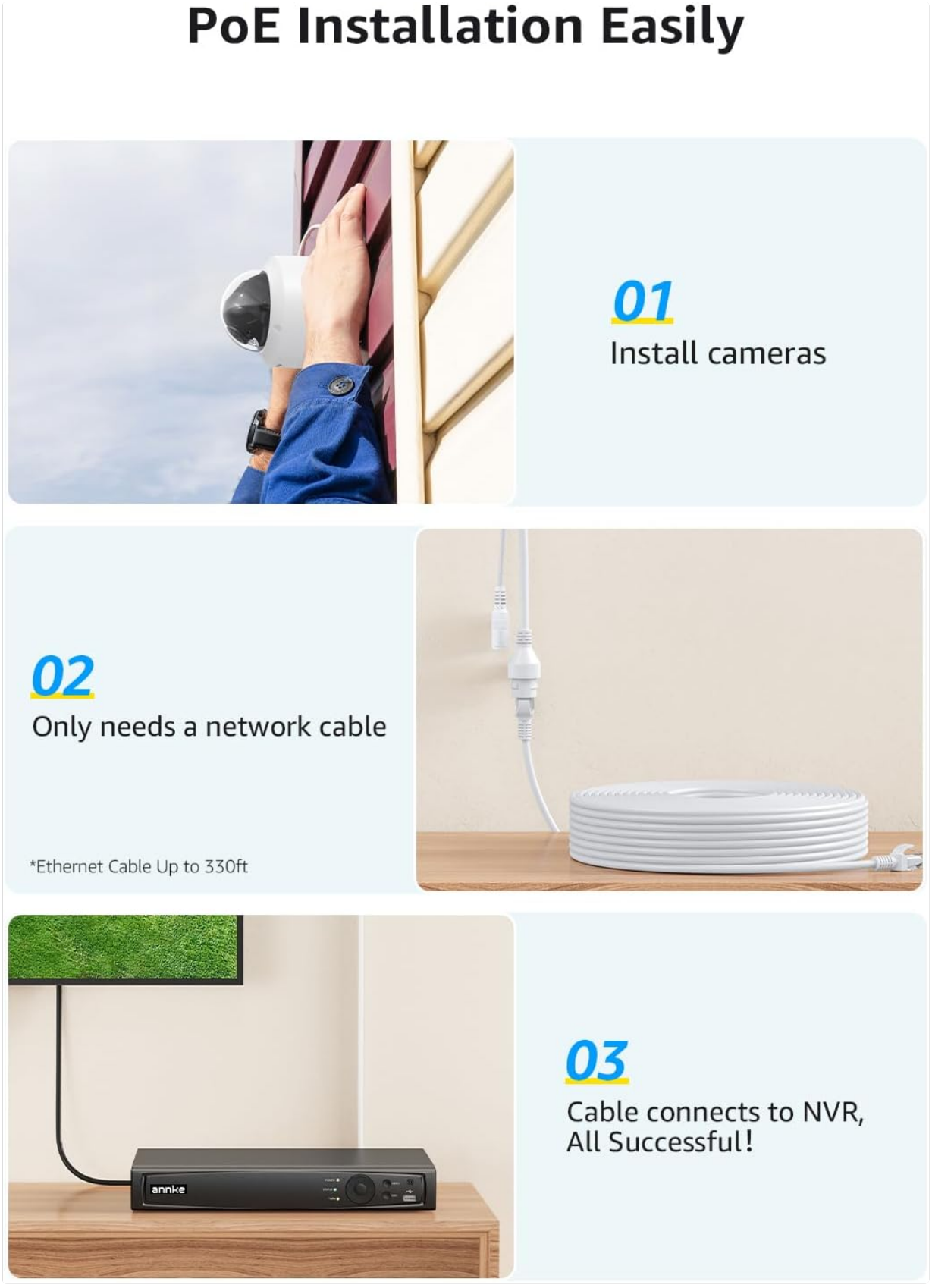


Image: Simplified diagram of PoE installation process.

4. Operating the System

4.1 Live View and Recording

Once the system is powered on and cameras are connected, you can view live feeds on a connected monitor or via the ANNKE Vision App. The NVR will automatically begin recording to the 2TB HDD based on default settings.



Image: Example of 4K video quality from an ANNKE camera.

4.2 Intelligent Motion Detection

The system features AI Smart Detection, capable of distinguishing between humans and vehicles. This reduces false alarms triggered by irrelevant movements. Alerts can be configured for app push notifications, email, or NVR buzzer.



Image: Intelligent motion detection identifying humans and vehicles.

4.3 Night Vision Modes

The cameras offer EXIR 2.0 Night Vision with Smart IR, providing clear images up to 100ft. Multiple night modes are available:

- **Motion Activated:** Records in color when motion is detected at night.
- **Black & White:** Standard infrared night vision.
- **Color:** Full-color night vision in low-light conditions.



Image: Comparison of different night vision modes.

4.4 Remote Access and Smart Playback

Access your system remotely using the ANNKE Vision App. The app allows for live viewing, playback of recorded footage, and system configuration from your mobile device. Smart Playback features enable quick searching for specific events, persons, or vehicles.



Image: Smart Playback interface on the ANNKE Vision App.

4.5 Audio Recording

The cameras are equipped with a built-in listen-in microphone featuring noise-cancelling audio recording, allowing you to capture audio alongside video footage.



Image: Features of the ANNKE dome camera, including audio and weather resistance.

4.6 H.265+ Video Compression

The system utilizes H.265+ compression technology, which significantly reduces video file sizes and bandwidth consumption by up to 75% compared to H.264, without compromising 4K video quality. This allows for longer recording times on the 2TB HDD.



Image: H.265+ compression efficiency.

4.7 Third-Party Integration

The system supports integration with various third-party platforms, including Blue Iris, Milestone, Home Assistant, and Apple HomeKit, expanding its compatibility within your smart home ecosystem.

5. Maintenance

5.1 Camera Cleaning

Periodically clean the camera lenses with a soft, damp cloth to ensure optimal image clarity. Avoid abrasive cleaners that could scratch the lens or housing. The IP67 rating ensures dust and water resistance, minimizing internal maintenance.

5.2 NVR Hard Drive Management

The 2TB HDD is designed for 24/7 surveillance. The NVR will automatically overwrite the oldest footage when the disk is full. Regularly back up important footage to external storage if needed. Check the NVR's system logs periodically for any hard drive status warnings.



Image: ANNKE Professional Security Grade Hard Drive.

5.3 Firmware Updates

Check the ANNKE official website or the ANNKE Vision App for available firmware updates for your NVR and cameras. Keeping your firmware updated ensures optimal performance, security, and access to new

features.

6. Troubleshooting

6.1 No Video Display

- Ensure the NVR is powered on and the power adapter is securely connected.
- Verify that the HDMI/VGA cable connecting the NVR to the monitor is properly seated.
- Check that each camera's network cable is securely connected to both the camera and the NVR's PoE port.
- Restart the NVR.

6.2 Remote Access Issues

- Confirm the NVR is connected to your router and has internet access. Check the network status indicator on the NVR.
- Ensure your mobile device has a stable internet connection.
- Verify that the ANNKE Vision App is updated to the latest version.
- Check firewall settings on your router; ensure necessary ports are open if manual configuration was performed.

6.3 Motion Detection Not Working

- Review the motion detection settings in the NVR or ANNKE Vision App. Ensure it is enabled for the desired channels.
- Adjust sensitivity levels.
- Define specific detection zones to avoid triggering by irrelevant areas.



Image: Example of setting specific monitoring zones.

7. Specifications

Feature	Specification
Brand	ANNKE
Model	AU-N48PAW2-V1-94BN-P

Connectivity Technology	Wired (PoE)
Video Capture Resolution	4K (8MP)
Special Features	Night Vision, Smart Playback, Weatherproof, AI Smart Detection
Number of Channels	8
Memory Storage Capacity	2 TB HDD
Color	Blue (System variant)
Power Source	DC (NVR)
Item Dimensions (L x W x H)	16.14 x 12.09 x 11.02 inches
Operating System	[Custom]
Recommended Uses	Home Surveillance, Business Surveillance
Compatible Devices	Cameras
Low Light Technology	Night Color
Night Vision Range	100 Feet
Frame Rate	15 FPS
Recording Mode	Motion Detection, Continuous
Hardware Interface	Ethernet
Lens Type	Fixed
Video Input	RJ45
Viewing Angle	96 degrees
Item Weight	16.76 pounds
Date First Available	December 24, 2020



Image: Product dimensions for the camera and NVR.

8. Warranty and Support

ANNKE is committed to providing reliable security solutions. For detailed warranty information, please refer to the official ANNKE website or contact customer support.

8.1 Technical Support

ANNKE offers lifetime technical support for its products. If you encounter any issues or have questions regarding your security system, please reach out to ANNKE customer service. Support options typically include email, online chat, or phone assistance.



Image: ANNKE's commitment to customer support.

8.2 Data Security

The system prioritizes data security through local storage on the 2TB HDD and bank-level encryption protocols to protect your surveillance footage.



Image: Data security features.

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For further assistance, please visit the official ANNKE website.