ANNKE N46PCK0-V4-9CDN

ANNKE PoE Security Camera System User Manual

Model: N46PCK0-V4-9CDN | Brand: ANNKE

1. Introduction

This manual provides detailed instructions for the installation, operation, and maintenance of your ANNKE PoE Security Camera System. This system features a 16-channel 12MP 5-in-1 NVR recorder and 12X 12MP Mega HD Smart Color Night Vision Turret IP Wired Cameras. It includes advanced AI motion detection capabilities and is designed for comprehensive surveillance.

Key features include: AI Human/Vehicle Detection for reduced false alarms, exceptional 12MP UHD visual experience, 24/7 recording with motion detection, three night vision modes (IR, Color, Human/Vehicle Triggered Color), smart search & playback, and unlimited remote access via the ANNKE APP.



Figure 1.1: ANNKE PoE Security Camera System Overview

2. What's in the Box

Please verify that all components listed below are included in your package:

- 1 x 16CH 12MP PoE NVR (Hard Drive not included)
- 12 x 12MP Turret IP PoE Cameras & Screw Kits
- 1 x HDMI Cable
- 1 x Ethernet Cable
- 1 x Power Adapter
- 6 x 60ft Network Cables
- 6 x 100ft Network Cables
- 1 x USB Mouse
- 1 x User Manual (this document)
- 1 x Wall Sticker



Figure 2.1: Package Contents

3. Specifications

3.1 NVR Specifications

Feature	Description
Video Compression	H.264+/H.264/H.265/H.265+
Video Output	HDMI up to 4K (3840 × 2160), VGA up to 1080p
IP Camera Input	Up to 16 channels, 12 MP resolution
SATA Interfaces	2 (for recording and backup, HDD not included)

Deep Learning (AI)	16-ch Human and vehicle targets detection (requires IP camera support); 4-ch Human and vehicle targets detection (NVR-based, up to 4MP)
Smart Event	Line crossing detection, intrusion detection, region entrance detection, region exiting detection (requires IP camera support)

3.2 Camera Specifications

Feature	Description
Image Sensor	1/2.7" Progressive Scan CMOS
Max Resolution	4096*3072 (12MP)
Lens	2.8 mm
Angle of View	Horizontal FOV 113°, vertical FOV 62°, diagonal FOV 134°
Supplement Light Type	Smart Dual-Light, IR, White Light
Supplement Light Range	Up to 30m (100ft)
Audio Input	Built-in Microphone, records with audio
Motion Detection 2.0	Supports Human & Vehicle detection
Storage	Built-in microSD/SDHC/SDXC Slot, up to 512 GB
Protection Rating	IP67 Dust and Waterproof
Power	PoE & DC 12V

Your browser does not support the video tag.

Video 3.1: ANNKE 1/2.7" Progressive Scan CMOS Cam Brings 12MP Quality. This video highlights the high-resolution capabilities of the camera's image sensor.

4. Setup and Installation

Follow these steps to set up your ANNKE PoE Security Camera System:

1. **Prepare the NVR:** Place the NVR in a secure, well-ventilated location. Ensure it is connected to a power source and a monitor via the HDMI or VGA port. Connect the included USB mouse for navigation.
2. **Install Hard Drive (Optional):** If your NVR did not come with a pre-installed hard drive, refer to the separate hard drive installation guide or the NVR's full manual for instructions on how to install one for recording.
3. **Mount the Cameras:** Choose appropriate locations for your cameras, ensuring they have a clear field of view and are within range of your network cables. Use the provided screw kits to securely mount each camera.
4. **Connect Cameras to NVR:** Connect each PoE IP camera to the NVR's PoE ports using the provided Ethernet cables. The NVR will automatically power the cameras and establish a network connection.
5. **Network Connection:** Connect the NVR to your local network (router/switch) using an Ethernet cable from the NVR's LAN port. This enables remote access and online features.
6. **Initial Configuration:** Follow the on-screen prompts on the connected monitor to complete the initial setup wizard for the NVR, including setting up passwords, time zone, and network settings.

Your browser does not support the video tag.

Video 4.1: ANNKE Easy Plug & Play 12MP PoE Camera. This video demonstrates the simple connection process of the PoE cameras to the NVR.

5. Operation

5.1 Live View and Recording

Once set up, you can view live feeds from your cameras on the connected monitor or via the ANNKE App. The NVR supports continuous 24/7 recording, scheduled recording, and motion-triggered recording.

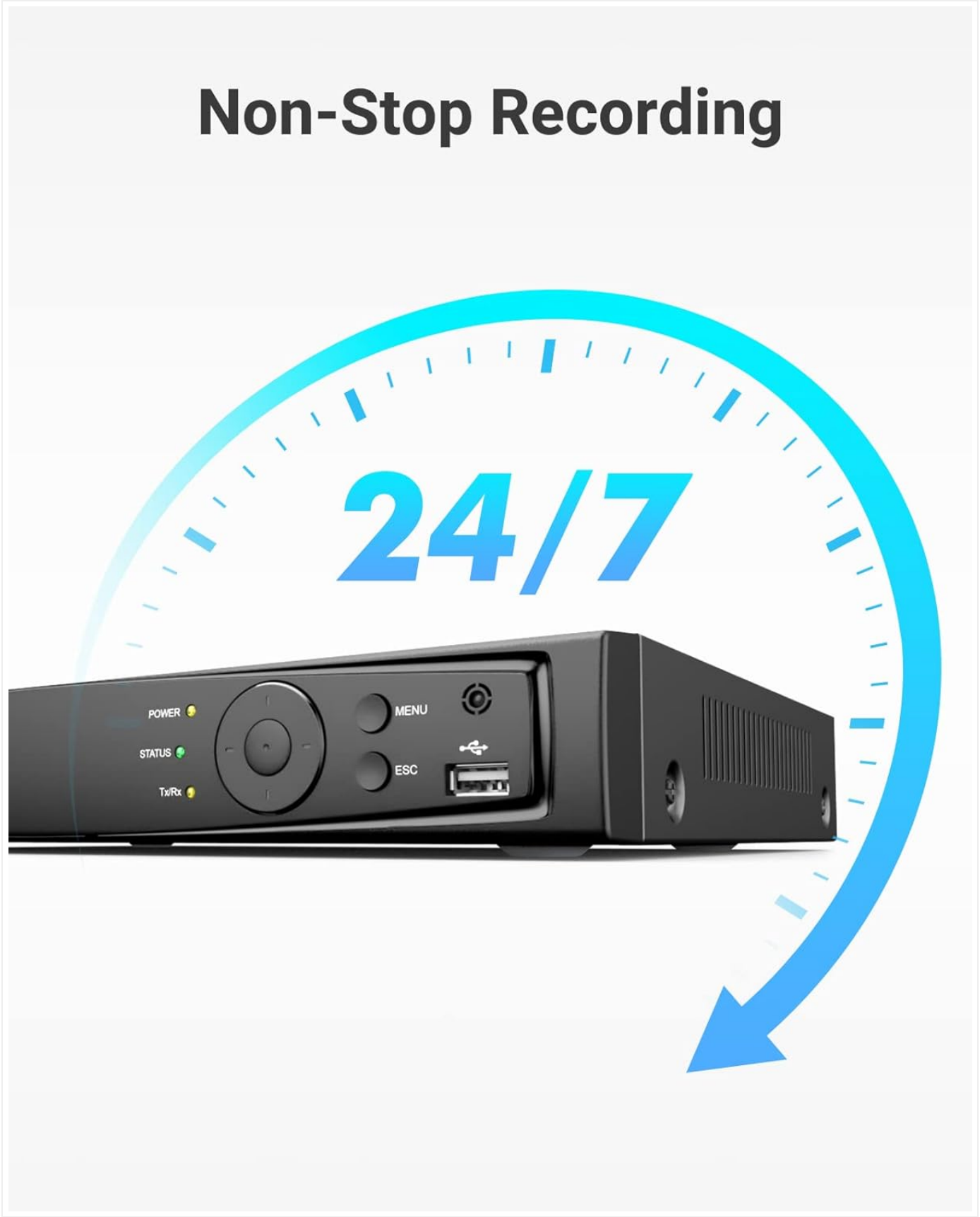


Figure 5.1: Non-Stop Recording Capability of the NVR.

5.2 AI Human/Vehicle Detection

The system's AI features significantly reduce false alarms by accurately distinguishing between human and vehicle movements. You can configure specific detection zones and sensitivity settings through the NVR interface or the mobile app.

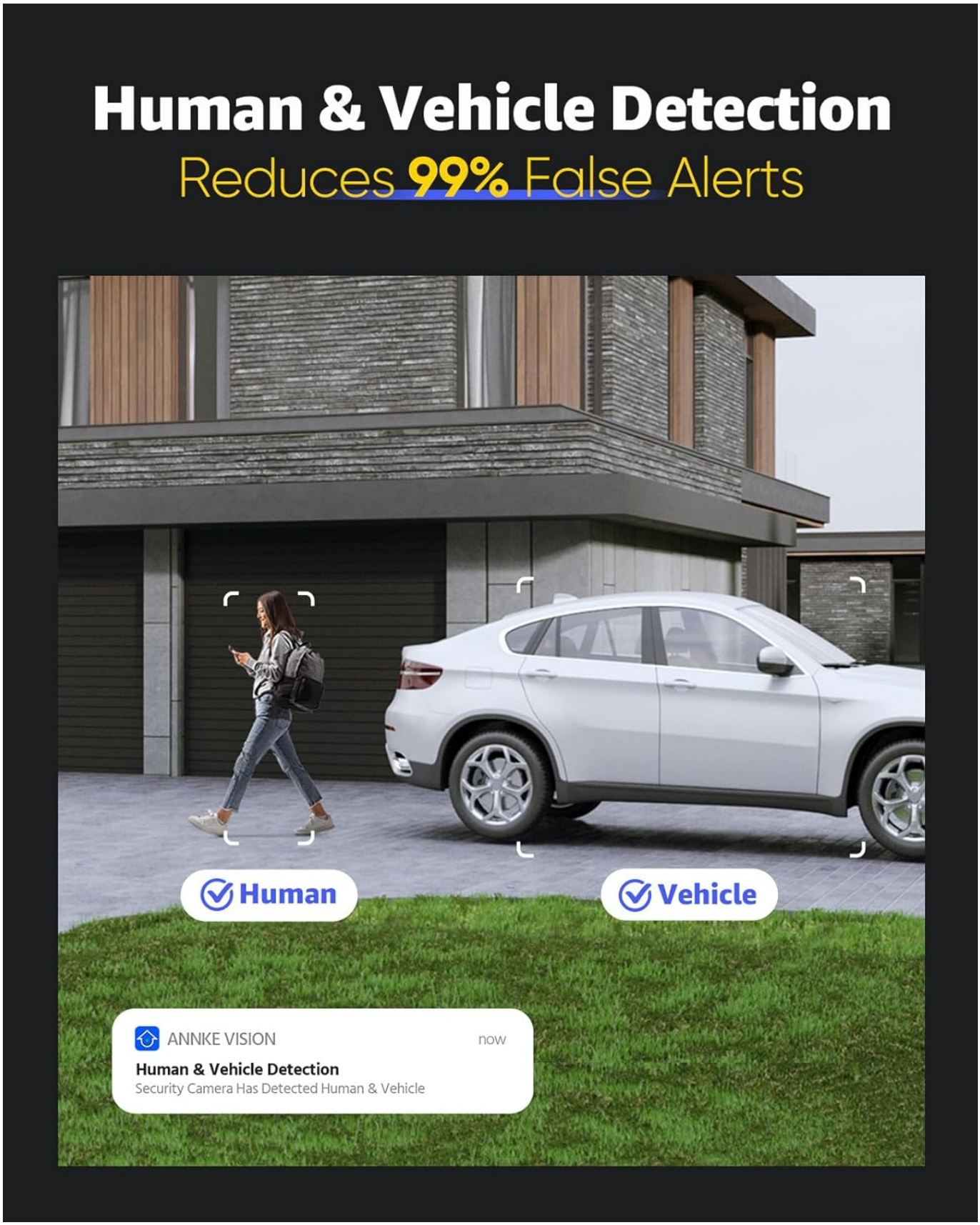


Figure 5.2: AI Human & Vehicle Detection in action.

5.3 Smart Color Night Vision

The cameras offer three night vision modes: standard IR night vision (black and white), full-color night vision (in low light conditions above 0.005 Lux), and human/vehicle triggered color mode, which switches to color when motion is detected.

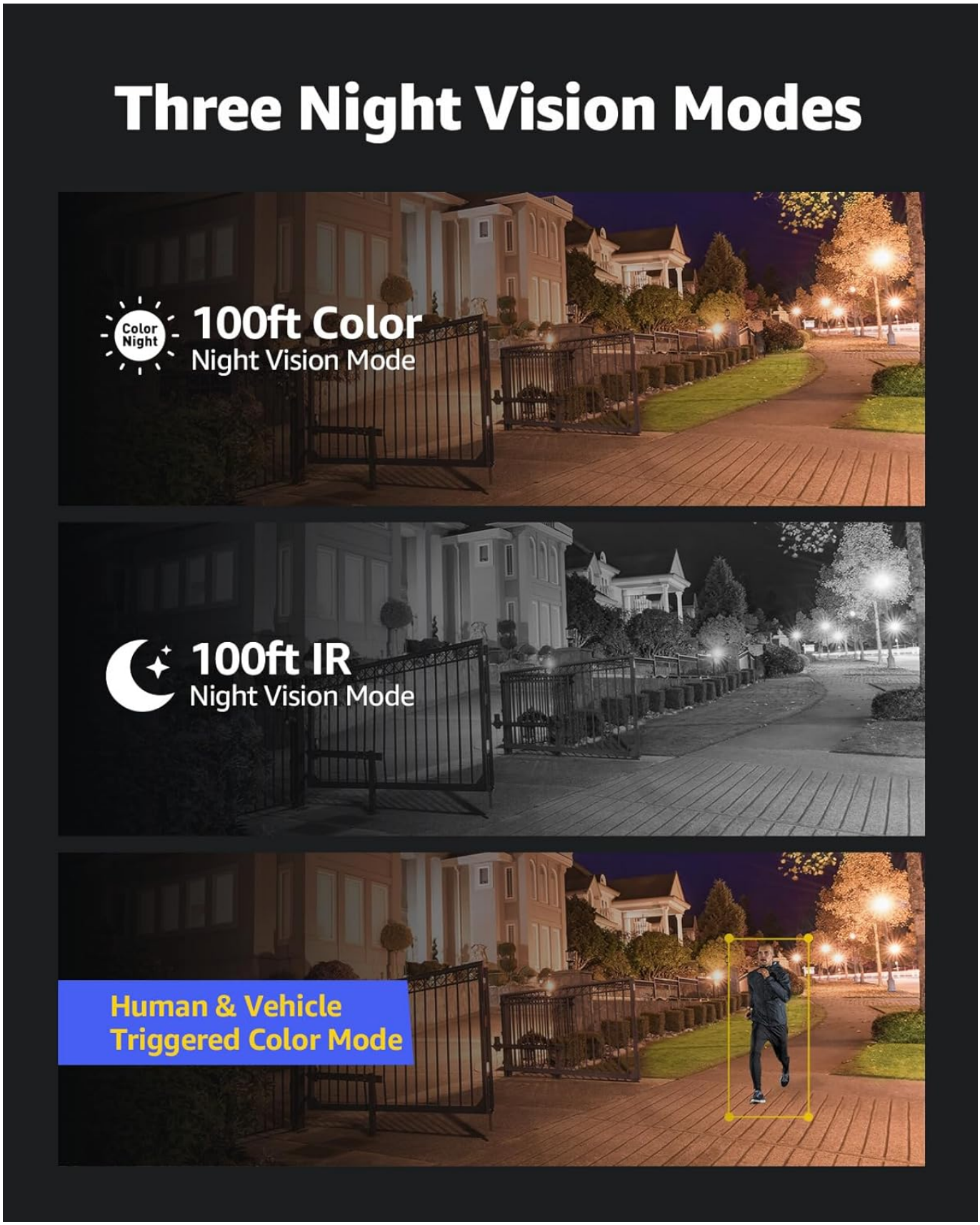


Figure 5.3: Demonstration of the three night vision modes.

Your browser does not support the video tag.

Video 5.1: ANNKE 12MP PoE Camera with Smart Dual Light. This video illustrates the smart dual light feature for enhanced night vision.

5.4 Smart Search & Playback

Easily find specific events within recorded footage using the smart search function. The playback feature allows you to review vital clips quickly and efficiently.

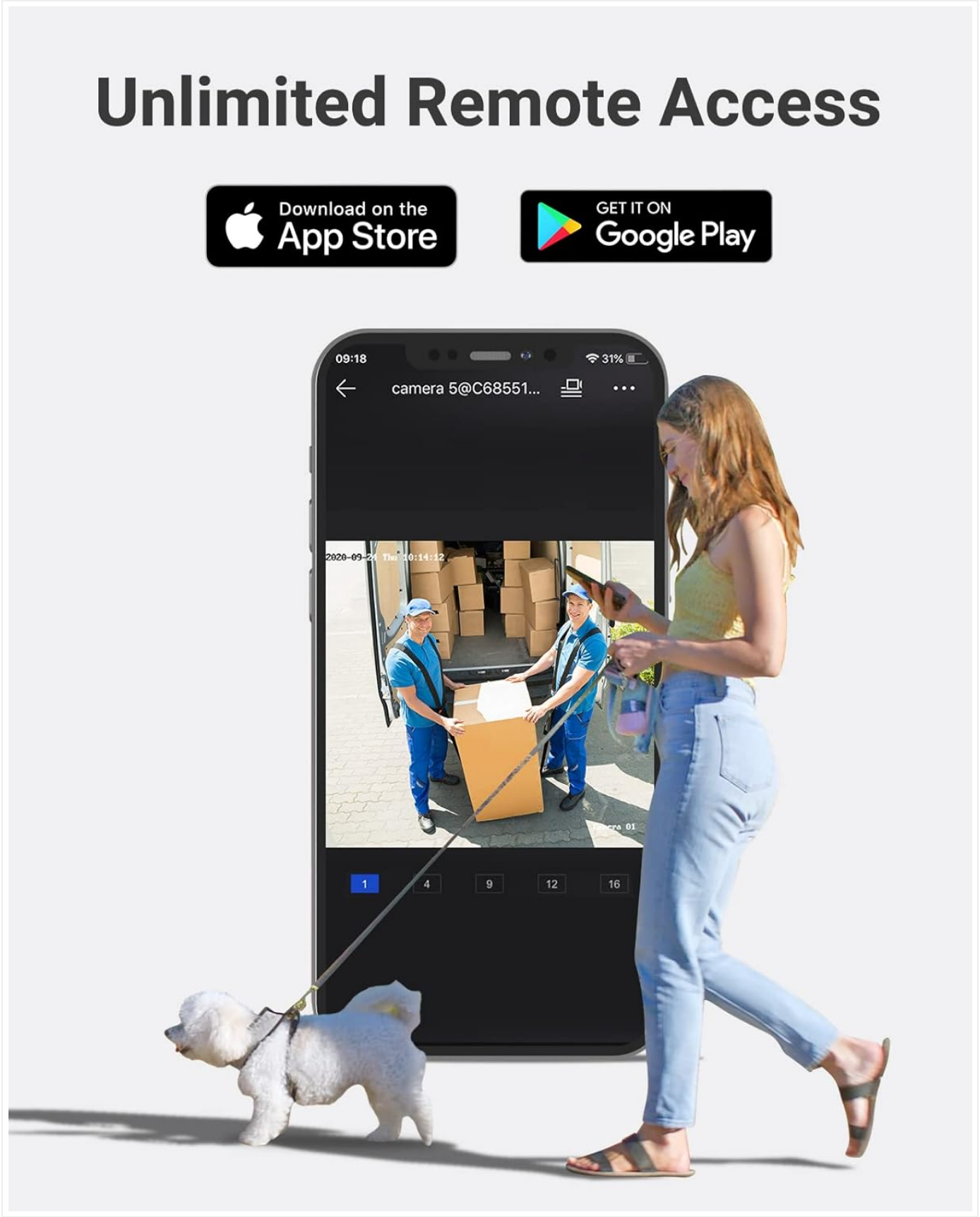


Figure 5.4: Smart Search & Playback Interface.

5.5 Remote Access via ANNKE App

Download the ANNKE App from the App Store or Google Play to access and control your camera system remotely from your smartphone, tablet, or computer. This allows for live viewing, playback, and configuration adjustments from anywhere with an internet connection.



Figure 5.5: Remote Access via ANNKE App.

Your browser does not support the video tag.

Video 5.2: ANNKE 12MP Ultra-High-Resolution Security Camera. This video showcases the overall capabilities and high resolution of the security camera system.

6. Maintenance

- **Cleaning:** Regularly clean the camera lenses with a soft, damp cloth to ensure clear image quality. Avoid abrasive cleaners.
- **Firmware Updates:** Check the ANNKE website or app periodically for firmware updates to ensure optimal performance and security.
- **Environmental Protection:** The cameras are IP67 dust and waterproof, designed to withstand various weather conditions. However, avoid directing high-pressure water jets directly at the cameras.
- **Cable Management:** Ensure all cables are securely fastened and protected from physical damage or environmental exposure.



Figure 6.1: IP67 Dust and Weatherproof Rating.

Your browser does not support the video tag.

Video 6.1: ANNKE IP67 12MP PoE Camera Endures All Kinds of Weather. This video demonstrates the camera's durability in various weather conditions.

7. Troubleshooting

Q: No image on monitor/app.

A: Check power connections for NVR and cameras. Ensure HDMI/VGA cables are securely connected. Verify network connection for remote viewing. Restart NVR and cameras.

Q: No recording or playback.

A: Ensure a hard drive is installed and properly initialized in the NVR settings. Check recording schedules and motion detection settings. Verify sufficient storage space on the HDD.

Q: False alarms from motion detection.

A: Adjust the sensitivity of motion detection in the NVR settings. Utilize AI Human/Vehicle Detection to filter out irrelevant movements. Configure detection zones to exclude areas with frequent non-human/vehicle activity (e.g., swaying trees).

Q: Cannot access system remotely.

A: Ensure the NVR is connected to the internet. Check network settings (DHCP, port forwarding if necessary). Verify the ANNKE App is updated to the latest version. Restart your router and NVR.

8. Warranty and Support

ANNKE products typically come with a limited warranty. For specific warranty terms and conditions, please refer to the warranty card included in your package or visit the official ANNKE website. For technical support, product registration, or service inquiries, please contact ANNKE customer support through their official website or the contact information provided in your product documentation.
Official ANNKE Website: www.annke.com

© 2024 ANNKE. All rights reserved.
This manual is subject to change without notice.