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› [ANNKE](#) /

› [ANNKE H800 4K PoE Security Camera System User Manual](#)

## ANNKE H800

# ANNKE H800 4K PoE Security Camera System User Manual

Model: H800

## 1. INTRODUCTION

Thank you for choosing the ANNKE H800 4K PoE Security Camera System. This manual provides essential information for the proper installation, operation, and maintenance of your security system. Please read this manual thoroughly before using the product and retain it for future reference.

The ANNKE H800 system offers advanced surveillance capabilities, including 4K Ultra HD resolution, Power over Ethernet (PoE) for simplified installation, AI-powered human and vehicle detection, and versatile night vision modes to ensure comprehensive security for your property.

## 2. PRODUCT OVERVIEW

### Key Features:

- **4K Ultra HD Resolution:** Exceptional 4K (3840x2160) images with 120 dB true WDR, 3D DNR, BLC & HLC technologies for clear video in various lighting conditions.
- **Advanced Night Vision:** EXIR 2.0 Night Vision with Smart IR up to 100ft, including full-color night vision with built-in spotlights.
- **H.265+ Video Compression:** Efficiently saves storage space and bandwidth without compromising 4K video quality.
- **AI Human/Vehicle Detection:** Intelligent motion detection to reduce false alarms.
- **PoE (Power over Ethernet):** Simplifies installation by providing power and data through a single network cable.
- **IP67 Weatherproof Cameras:** Designed to withstand harsh outdoor conditions.
- **Wide-Angle Lens:** 4mm lens for broader coverage and fewer blind spots.
- **Dual Lens Camera:** Includes a 6MP dual-lens camera offering a 180° stitched wide view.

### System Components:

- 8-Channel H.265+ NVR with 2TB HDD

- 8MP Outdoor Bullet IP Cameras (Quantity as per package)
- 6MP Dual Lens Camera (Quantity as per package)
- Ethernet Cables
- Power Adapter for NVR
- USB Mouse

## 3. SETUP INSTRUCTIONS

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The ANNKE H800 system features a Plug & Play PoE setup, making installation straightforward.

### 3.1 NVR Connection

1. Connect the NVR to a power outlet using the provided power adapter.
2. Connect the NVR to your router using an Ethernet cable for network access.
3. Connect a monitor to the NVR via HDMI or VGA port (cable not included) and attach the USB mouse for local control.

### 3.2 Camera Installation and Connection

The cameras are powered and transmit data via a single Ethernet cable (PoE).

1. **Install Cameras:** Mount the cameras in desired outdoor locations, ensuring a clear field of view and secure attachment.
2. **Connect Cameras:** Connect each camera to an available PoE port on the NVR using an Ethernet cable. No separate power cables are needed for the cameras.

# PoE Installation Easily



**01**

Install cameras

**02**

Only needs a network cable

\*Ethernet Cable Up to 330ft



**03**

Cable connects to NVR,  
All Successful!

Figure 3.2.1: PoE Installation Steps. This image illustrates the simple three-step process for setting up the PoE cameras: physically installing the cameras, using only a network cable for connection, and finally connecting the cable to the NVR.

## 4. OPERATING INSTRUCTIONS

### 4.1 Remote Access via ANNKE Vision App

Access your security system remotely from anywhere using the ANNKE Vision App.

1. Download the ANNKE Vision App from Google Play Store or Apple App Store.
2. Register an account and log in.
3. Add your NVR system to the app by scanning the QR code on the NVR or manually entering its details.
4. Once added, you can view live feeds, playback recordings, and receive alerts. The system supports remote access for up to 32 users.

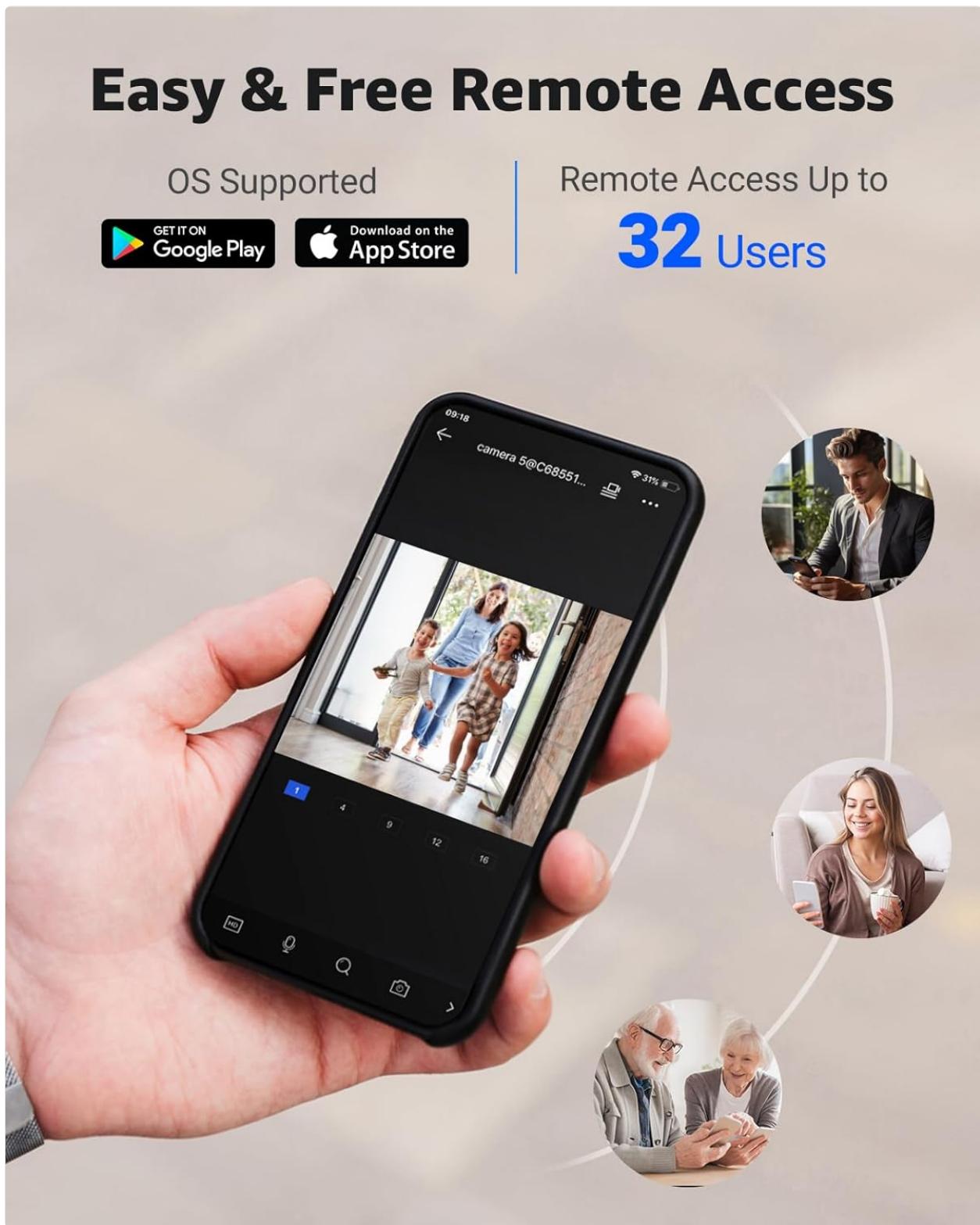
# Easy & Free Remote Access

OS Supported

GET IT ON Google Play

Download on the App Store

Remote Access Up to **32 Users**



The image shows a hand holding a smartphone displaying the ANNKE Vision app interface. The screen shows a live feed from a camera labeled 'camera 5@C68551...' at 09:18. The feed shows a family of four (two adults and two children) walking through a doorway. Below the feed are camera controls for '1', '4', '9', '12', and '16'. At the bottom are icons for 'HD', 'Q', and a camera. To the right of the phone, three circular icons show different people using smartphones, representing remote access for up to 32 users. The top of the image has text for supported OS and remote access, and the bottom shows download links for Google Play and the App Store.

Figure 4.1.1: Easy & Free Remote Access. This image displays the ANNKE Vision app interface on a smartphone, demonstrating live camera viewing and highlighting the availability of the app on Google Play and the App Store, along with the capability for up to 32 users to access remotely.

## 4.2 Intelligent Motion Detection

The system utilizes AI-powered detection to differentiate between humans and vehicles, minimizing false alarms.

- **AI Human/Vehicle Detection:** Configure detection zones and sensitivity settings via the NVR interface or ANNKE Vision App.
- **Alerts:** Receive instant notifications via app push, email, or an audible buzzer from the NVR when motion is detected.

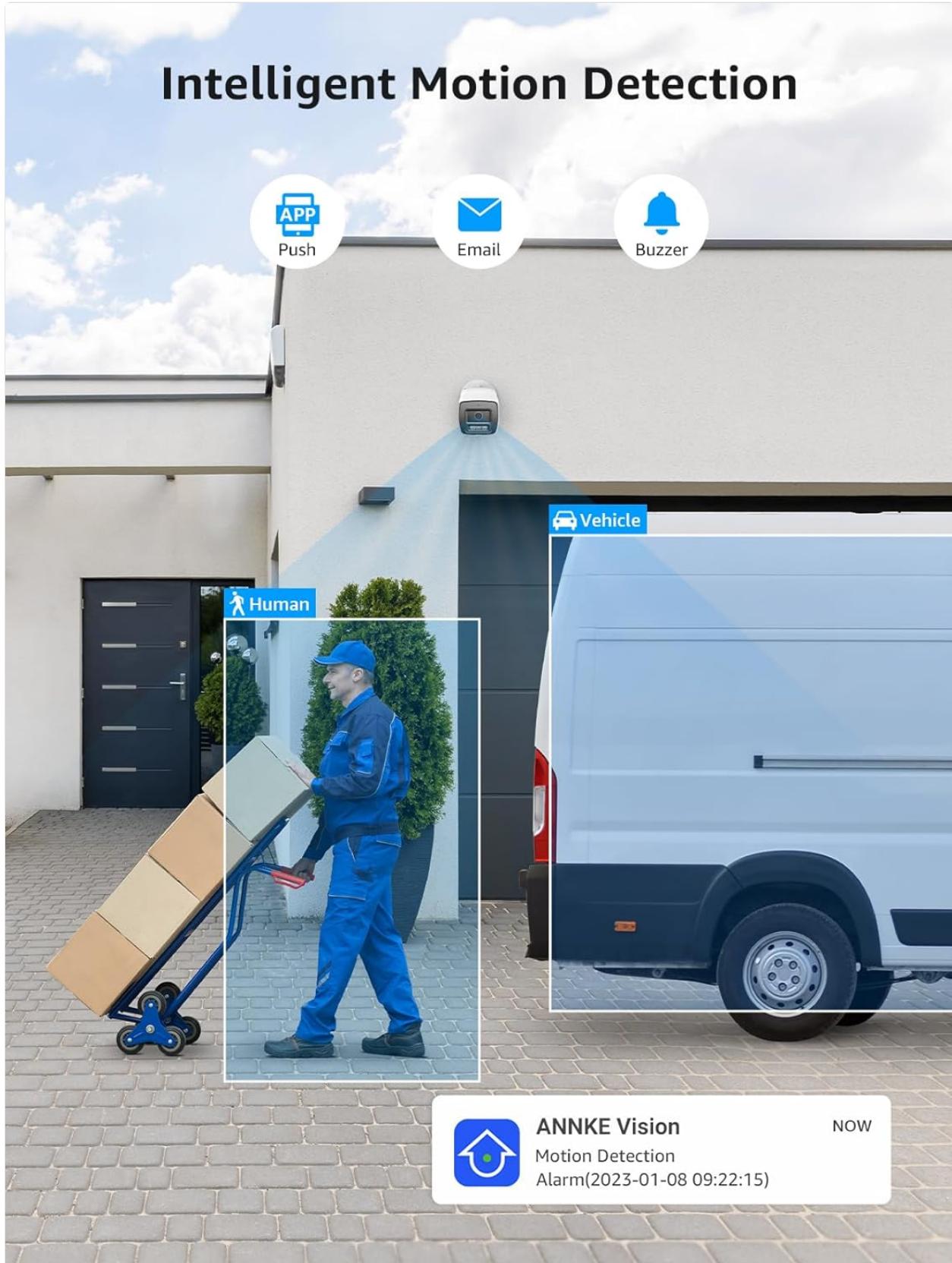


Figure 4.2.1: Intelligent Motion Detection. This image illustrates the system's ability to detect and differentiate between humans and vehicles, showing an alert notification from the ANNKE Vision app.

## 4.3 Night Vision Modes

The ANNKE H800 offers multiple night vision options for optimal surveillance in low-light conditions.

- **Motion Activated:** Cameras switch to color night vision upon detecting motion.
- **Black & White:** Standard infrared night vision for clear monochrome images in complete darkness.
- **Full-Color Night Vision:** Utilizes built-in spotlights to provide vivid color images even at night.



Figure 4.3.1: Multiple Night Modes. This image displays three distinct night vision modes: Motion Activated, Black & White, and Full-Color, showcasing the system's versatility in low-light environments.

# Full-Color Night Vision

2pcs  
Spotlights

100 ft  
Night Vision

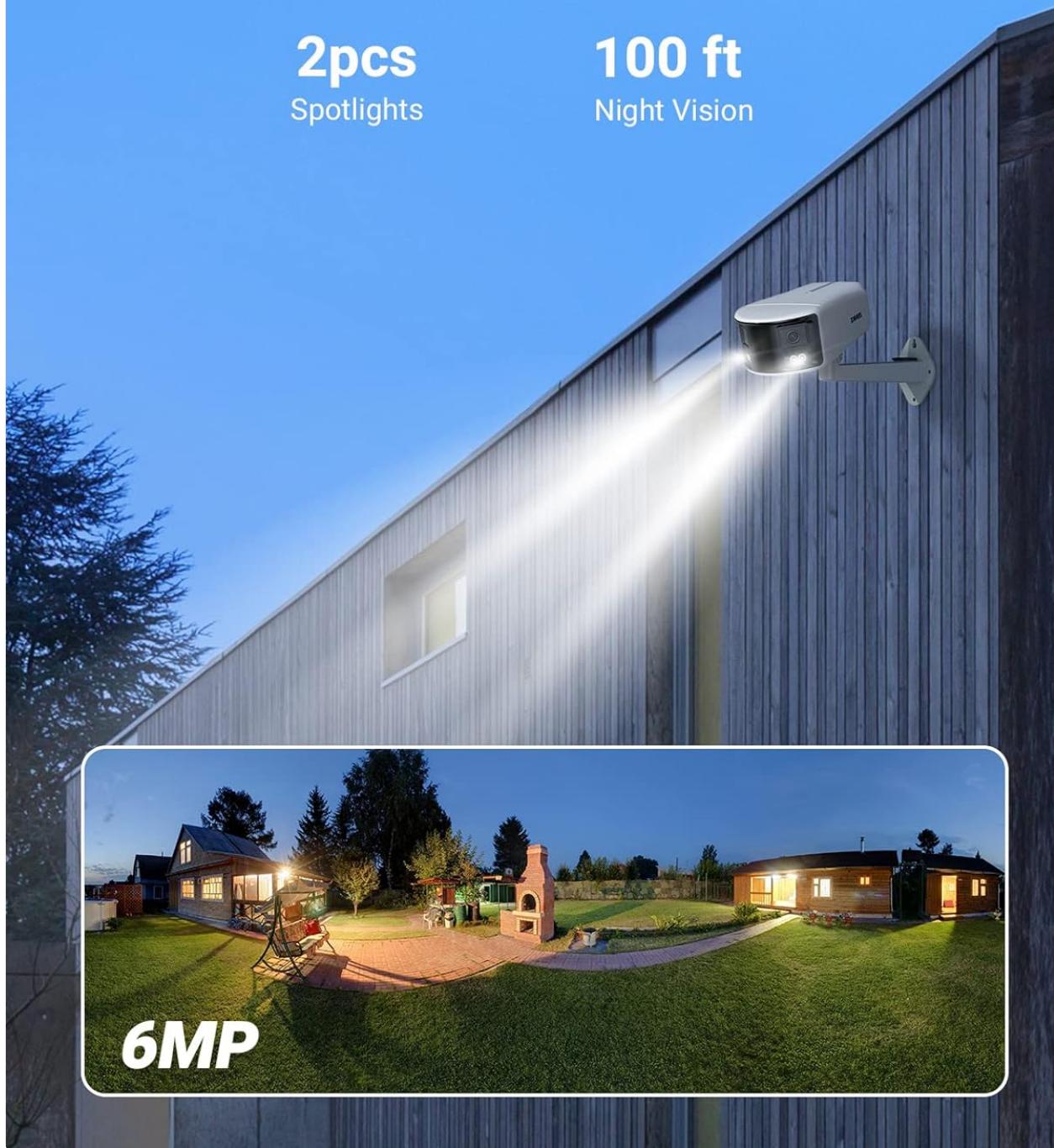


Figure 4.3.2: Full-Color Night Vision. This image shows a security camera with two spotlights providing 100 ft of full-color night vision, capturing a clear view of a backyard at night.

## 4.4 4K Crisp Quality and Wide Coverage

Experience superior image clarity and expansive coverage with the ANNKE H800 system.

- **4K UHD Resolution:** Cameras capture video at 3840x2160 pixels, providing exceptional detail.
- **Advanced Image Processing:** Features like 120 dB True WDR, 3D DNR, BLC, and HLC ensure balanced exposure and noise reduction in challenging lighting.
- **180° Stitched Width:** The included 6MP dual-lens camera provides a seamless 180-degree panoramic view, effectively covering a larger area than traditional cameras.

# 4K Crisp Quality and Wide Margin



4mm@F1.6



3840\*2160

Figure 4.4.1: 4K Crisp Quality and Wide Margin. This image showcases the high-resolution capabilities of the camera, providing a clear view of an outdoor area, emphasizing its 4K (3840x2160) resolution and 4mm lens.

# Forerunning 180° Stitched Width

2X wider than regular cams



ANNKE 180° - Vivid colors in 1 feed



Other 150° - Color distortion in 2 feeds

Figure 4.4.2: Forerunning 180° Stitched Width. This image demonstrates the advanced dual-lens camera's ability to provide a 180-degree stitched panoramic view, which is significantly wider than typical cameras.

# Pay for One yet Works as Two

One-Time Installation



Figure 4.4.3: Pay for One yet Works as Two. This image visually compares the installation of a single dual-lens camera with one cable to the installation of two separate cameras requiring two cables, emphasizing the efficiency of the dual-lens solution.

## 4.5 Third-Party Platform Integration

Beyond the ANNKE Vision App, the system supports integration with various third-party platforms for enhanced flexibility:

- Blue Iris
- Synology
- Milestone
- Home Assistant

## 5. MAINTENANCE

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Regular maintenance ensures the longevity and optimal performance of your ANNKE H800 security system.

- **Camera Lens Cleaning:** Periodically clean camera lenses with a soft, damp cloth to remove dust, dirt, or water spots that may obscure the view. Do not use harsh chemicals.
- **Cable Inspection:** Regularly check all Ethernet cables for any signs of wear, damage, or loose connections. Ensure weatherproof connections are sealed.
- **Firmware Updates:** Check the ANNKE official website or the ANNKE Vision App for available firmware updates for your NVR and cameras. Keeping firmware updated ensures the latest features and security patches.
- **NVR Ventilation:** Ensure the NVR is placed in a well-ventilated area to prevent overheating. Keep vents clear of obstructions.
- **Storage Management:** The H.265+ compression technology helps manage storage efficiently. However, regularly review recordings and back up important footage as needed. The 2TB HDD provides ample storage for 7/24 recording.

## 6. TROUBLESHOOTING

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If you encounter issues with your ANNKE H800 system, refer to the following common troubleshooting steps:

### 6.1 No Video Display

- **Check Power:** Ensure the NVR is powered on and its power adapter is securely connected.
- **Check Camera Connections:** Verify that all PoE cameras are securely connected to the NVR's PoE ports with functional Ethernet cables.
- **Monitor Connection:** If using a local monitor, ensure it is correctly connected to the NVR via HDMI/VGA and is powered on.
- **Network Issues:** For remote viewing, ensure the NVR is connected to the internet and your mobile device has network access.

### 6.2 No Remote Access

- **Internet Connection:** Confirm the NVR is connected to the internet and your router is functioning correctly.
- **App Status:** Ensure the ANNKE Vision App is updated to the latest version.
- **NVR Status:** Check the NVR's network settings to ensure it has a valid IP address and is online.
- **Firewall/Router Settings:** Your router's firewall or security settings might be blocking access. Consult your router's manual or ISP for assistance.

### 6.3 False Motion Alerts

- **Adjust Sensitivity:** Reduce the motion detection sensitivity in the NVR settings or ANNKE Vision App.
- **Configure Detection Zones:** Exclude areas with frequent non-threatening motion (e.g., trees swaying, busy roads) from the detection zones.
- **AI Detection:** Ensure AI Human/Vehicle Detection is enabled to filter out irrelevant motion.

For more complex issues or if the above steps do not resolve your problem, please contact ANNKE customer support.

## 7. SPECIFICATIONS

Feature	Specification
Model	H800
Video Resolution	4K (3840 x 2160)
NVR Channels	8-Channel
HDD Capacity	2TB (for 7/24 Recording)
Video Compression	H.265+
Night Vision	EXIR 2.0, Smart IR up to 100ft, Full-Color Night Vision with Spotlights
WDR	120 dB True WDR
DNR	3D DNR
Detection	AI Human/Vehicle Detection
Weatherproof Rating	IP67
Lens Type	4mm Wide-Angle (Bullet Cams), Dual Lens (6MP Camera)
Connectivity	PoE (Power over Ethernet)
Remote Access	ANNKE Vision App (iOS/Android), Third-Party Platforms (Blue Iris, Synology, Milestone, Home Assistant)
ASIN	B0F5QH53S
Date First Available	April 21, 2025

## 8. WARRANTY AND SUPPORT

For warranty information, please refer to the warranty card included with your product or visit the official ANNKE website. ANNKE provides technical support to assist you with any questions or issues you may encounter.

### Contacting Support:

- Visit the ANNKE Support Center on their official website.
- Refer to the contact information provided in your product packaging.
- Explore the [ANNKE Store on Amazon](#) for additional product information and resources.

