



Manuals.plus /

- › Rraycom /
- › Raycom PoE Security Camera System (Model POE-4PC/3MP) User Manual

## Raycom POE-4PC/3MP

# Raycom PoE Security Camera System User Manual

Model: POE-4PC/3MP

Brand: Rraycom

## 1. INTRODUCTION

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This manual provides detailed instructions for the installation, operation, and maintenance of your Raycom PoE Security Camera System. This system includes 4 wired 3MP outdoor IP cameras and a 4K 8-channel NVR with a pre-installed 1TB HDD for 24/7 recording. It features color night vision, AI human detection, and two-way audio, offering comprehensive surveillance without monthly fees.



Image: Overview of the Raycom PoE Security Camera System, showing the NVR and four cameras.

## 2. WHAT'S IN THE BOX

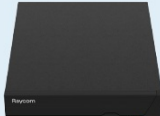
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Verify that all items are present in your package:

- 4Ports PoE NVR × 1
- 3MP PoE Cameras × 4
- 1TB HDD (Pre-installed) × 1
- Power Adapter for NVR × 1
- 60ft Ethernet Cable × 4
- 3ft Ethernet Cable × 1
- HDMI Cable × 1
- Warning Sticker × 1
- Screws × 1 pack
- User Manual × 1
- USB Mouse × 1

## What's in the Box?

x1



4Ports PoE NVR

x4



3MP PoE  
Cameras

x1



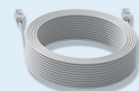
1TB HDD  
(Pre-installed)

x1



Power Adapter  
for NVR

x4



60ft Ethernet Cable

x1



3ft Ethernet Cable

x1



HDMI Cable

x1



USB Mouse

x1



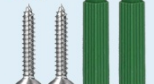
User Manual

x1



Warning Sticker

x4



Screws

Image: Visual representation of all items included in the Rraycom PoE Security Camera System package.

## 3. SETUP GUIDE

### 3.1 System Connection

The Rraycom PoE Security Camera System is designed for plug-and-play installation. Follow these steps to connect your system:

1. Connect the NVR's LAN port to your router's LAN port using the provided 3ft Ethernet cable.
2. Connect the NVR to a monitor (TV or PC) using either the VGA or HDMI cable for real-time viewing.
3. Connect the USB mouse to a USB port on the NVR for navigation.
4. Connect each 3MP PoE camera to any of the PoE ports on the NVR using the provided 60ft Ethernet cables. The cameras will receive both power and data through these cables.
5. Connect the 48V DC power adapter cable to the NVR, then plug it into an electrical outlet. The NVR will automatically boot on.

# What's in the Box



Image: A diagram illustrating the Power over Ethernet (PoE) connection setup, showing cameras connected to the NVR and the NVR connected to a router and monitor.

## 3.2 Initial NVR Setup

Upon the first boot, a setup wizard will appear on your connected monitor. Follow the on-screen prompts:

1. Enter the NVR login password. The default account is 'admin' with the password '123456'. It is highly recommended to change this default password immediately for security.
2. Configure network settings. The system supports DHCP for automatic IP address assignment.
3. Save the settings to complete the initial setup.

## 3.3 App Binding and Remote Access

To access your security system remotely via your smartphone or tablet, you need to bind the NVR to the VistaFlow app:

1. On the NVR interface, right-click to open the Main Menu.
2. Navigate to the 'CloudService' menu.
3. Check 'CloudService' to enable it. The system will generate an NVR Device ID QR code.
4. Scan the VistaFlow APP QR code displayed on the NVR to download the app to your mobile device.

5. Open the VistaFlow app, sign up for an account, and log in.
6. In the app, tap 'Add Device' and use the app's scanner to scan the NVR Device ID QR code from your monitor.
7. The NVR will be successfully added to your app, allowing remote monitoring and playback.

Video: A step-by-step guide on how to bind the Rraycom PoE Security Camera System to the VistaFlow phone application for remote access.

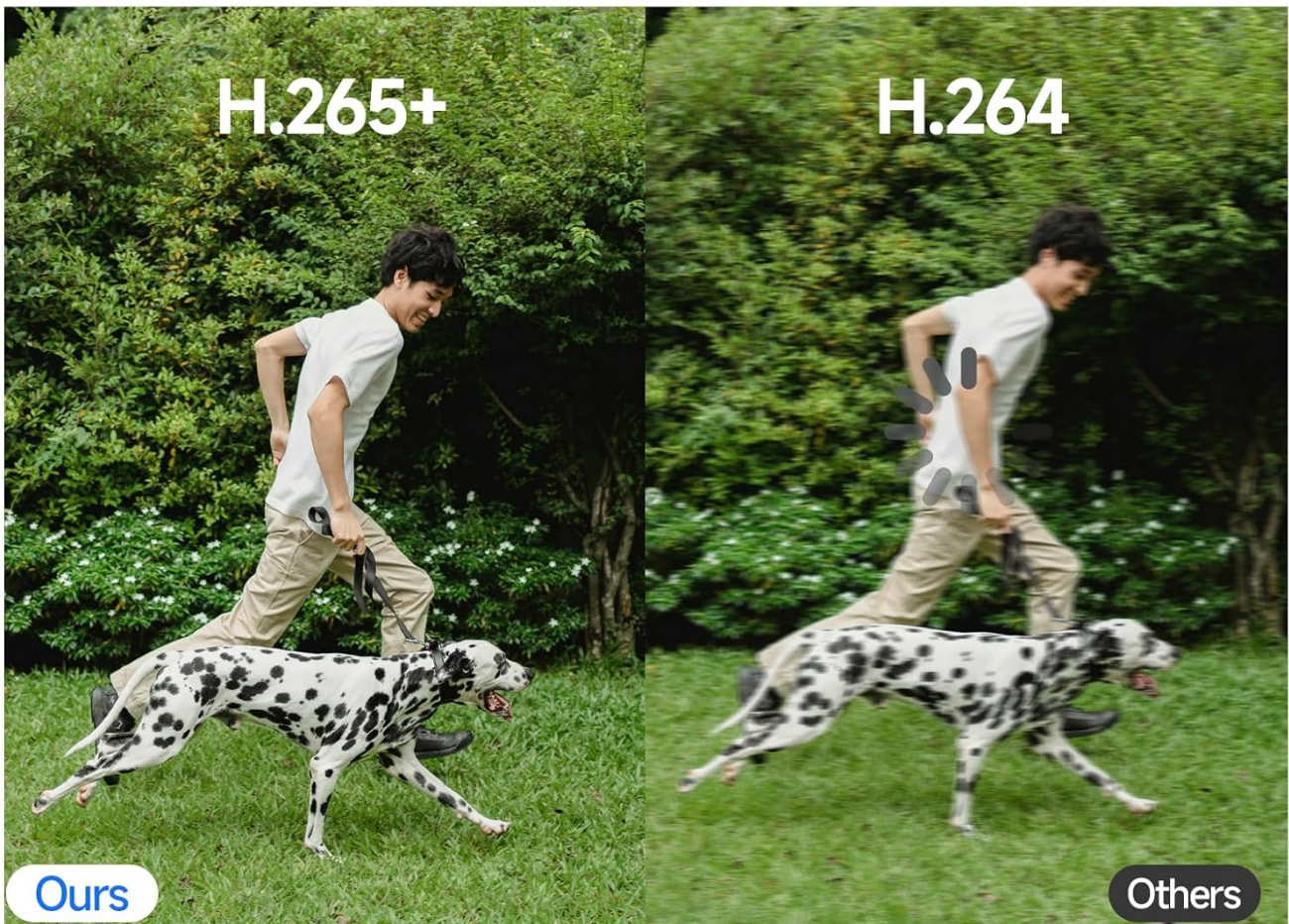
Video: An instructional video demonstrating the physical setup process for the Rraycom PoE Camera System.

## 4. OPERATING INSTRUCTIONS

### 4.1 Live View and Playback

- **Local Viewing:** Connect the NVR to a monitor via HDMI or VGA for real-time HD viewing of all camera feeds.
- **Remote Viewing:** Use the VistaFlow app on your smartphone, tablet, or PC to view live feeds and recorded footage from anywhere with an internet connection (Wi-Fi, 2G, 3G, or 4G). The app supports quad-view live streaming simultaneously.
- **Smart Playback:** The NVR supports smart playback at 25 frames per second, allowing you to review footage efficiently.

# Efficient H.265+ Compression



Occupy 25% Bandwidth

Occupy 100% Bandwidth

**H.265+** (Save 50% Storage Space)

**H.264**

Image: A monitor connected to the NVR, showing a quad-view of live camera feeds from different locations around a property.

## 4.2 Video Quality and Night Vision

The 3MP cameras provide crystal-clear 1440p HD video resolution. Advanced IR lights enable night vision up to 100ft, ensuring clear visibility even in complete darkness.

# Two -Way Audio



Image: A comparison showing the clear daytime and infrared night vision capabilities of the 3MP cameras, highlighting 100ft IR night vision.

Video: A demonstration of the excellent video quality provided by the Raycom security cameras, showcasing clear imagery.

## 4.3 Motion Detection and Alerts

The system features AI human detection to minimize false alarms. When suspicious motion is detected:

- You will receive real-time alerts on the free VistaFlow app.
- The camera's spotlight and siren will activate to deter intruders.
- You can customize recording schedules and adjust detection zones for each camera to focus on critical areas.

# HDMI External Display & Local Storage

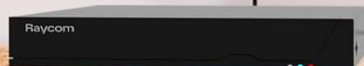


Image: An illustration of the motion detection feature, showing a spotlight and siren activating, and an app notification for detected motion.

## Customized Detection Zone

Reduce false alarms and focus on key areas by selecting specific activity zones



Image: A house with blue overlay grids indicating customizable detection zones, allowing users to define specific areas for motion monitoring.

## 4.4 Two-Way Audio

Each camera is equipped with a built-in microphone and speaker, enabling two-way audio communication. You can listen to surroundings and speak through the camera via the app, allowing you to interact with visitors or deter potential threats.



Image: A delivery person at a front door, with a speech bubble indicating communication through the camera's two-way audio feature.

## 4.5 Recording and Storage

The NVR comes with a pre-installed 1TB security-grade hard drive, supporting 24/7 continuous recording. The storage is expandable up to 10TB. The system utilizes H.265+ compression, which saves up to 50% more space compared to older formats, maximizing recording duration.

# Power over Ethernet

Plug & Play, Reliable signal.



Image: A visual comparison demonstrating the efficiency of H.265+ compression over H.264, showing significant storage space savings.

## 5. MAINTENANCE

### 5.1 Hard Drive Management

The NVR is configured to automatically overwrite the oldest footage when the hard drive is full, ensuring continuous recording. For long-term storage or specific events, you can easily transfer videos via USB to a memory stick or external hard drive.

### 5.2 Camera Care

The cameras are IP66 weatherproof, designed to withstand harsh weather conditions. Periodically inspect camera lenses for dirt or debris and clean them gently with a soft cloth to maintain optimal image clarity.

# IP66 Durable ABS Housing



55°C/131°F  
Hot Rating



-10°C/14°F  
Cold Rating

Image: An Rraycom camera mounted outdoors, with rain falling, illustrating its IP66 weatherproof rating and durability in various temperatures.

## 6. TROUBLESHOOTING

If you encounter issues with your Rraycom PoE Security Camera System, consider the following common solutions:

- **No Video Feed:** Ensure all Ethernet cables are securely connected between the cameras and the NVR, and between the NVR and the monitor/router. Verify the NVR is powered on.
- **No Remote Access:** Check your internet connection. Ensure the NVR's CloudService is enabled and correctly bound to the VistaFlow app. Confirm your mobile device has a stable internet connection.
- **Poor Image Quality:** Clean the camera lenses. Ensure cameras are positioned correctly and not obstructed. Check for sufficient lighting, especially at night.
- **False Motion Alerts:** Adjust the detection zones and sensitivity settings within the NVR or app to reduce unwanted triggers. Utilize AI human detection if available.
- **No Recording:** Verify the 1TB HDD is properly installed and functioning. Check recording schedules in the NVR settings.

For further assistance, please refer to the contact information in the Support section.

## 7. SPECIFICATIONS

Feature	Detail
Brand	Rraycom
Model Number	POE-4PC/3MP
Connectivity Technology	Wired (PoE)
Video Capture Resolution	1440p (3MP)
Number of Channels	4
Memory Storage Capacity	1 TB (expandable to 10TB)
Power Source	Corded Electric
Operating System	Personal Computers, Smartphones, TV, Tablets, Vistaflow
Hardware Interface	HDMI, VGA, RJ45, USB
Night Vision Range	100 Feet
Viewing Angle	130 Degrees
Recording Mode	24-7 Recording
Special Features	Audio Recording, Automatic Overwrite, Siren Alarm, Smart Playback, Two-Way Audio, AI Human Detection, Color Night Vision, IP66 Weatherproof

## 8. SUPPORT

For any questions, technical support, or warranty inquiries, please contact Rraycom customer support:

- **Email:** [aftersale@rraycom.com](mailto:aftersale@rraycom.com)
- **Online Resources:** Visit the Rraycom Store on Amazon for additional product information and FAQs.

### 8.1 Data Security and Privacy

Rraycom is committed to protecting your privacy. Your videos are encrypted using AES to ensure data confidentiality, while RSA/ECDHE handles secure key exchange to keep your private data secure at all times.