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> SV3C 4K WiFi IP Camera Outdoor User Manual

## SV3C HX03

# SV3C 4K WiFi IP Camera Outdoor User Manual

Model: HX03 | Brand: SV3C

## 1. INTRODUCTION

The SV3C 4K WiFi IP Camera Outdoor is an advanced security solution designed for both indoor and outdoor surveillance. Featuring an 8MP sensor, it delivers crisp 4K (3840x2160) resolution video, with adjustable resolutions down to 2560x1440 (4MP) and 1920x1080 (1080P/2MP). This camera supports dual-band WiFi (2.4GHz and 5GHz) for flexible connectivity and includes intelligent features such as humanoid, vehicle, and pet detection. Equipped with built-in floodlights and infrared LEDs, it offers both full-color and black & white night vision capabilities. Two-way audio allows for real-time communication, and multiple storage options including Micro SD card and cloud storage are available.



Figure 1.1: SV3C 4K WiFi IP Camera Outdoor, showing its bullet design and antenna.

## 2. WHAT'S IN THE BOX

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Verify that all components are present in the package:

- 1 x 4K Bullet WiFi Camera
- 1 x Ethernet Cable
- 1 x US Power Adapter
- 1 x Screw Bag (for mounting)
- 1 x Waterproof Lids (for cable connections)

### 3. PRODUCT OVERVIEW

Familiarize yourself with the camera's components and interfaces.



Figure 3.1: Detailed diagram of the SV3C 4K WiFi IP Camera with labeled parts and dimensions.

- **5db Antenna:** For WiFi signal reception.
- **Metal Base:** Provides stable mounting.
- **IP66 Aluminum Shell:** Durable and waterproof housing.

- **6pcs IR & Floodlight Lights:** For night vision and illumination.
- **4K 3.6mm HD Lens:** Captures high-resolution video.
- **Speaker & Microphone:** For two-way audio communication.
- **SD Card Slot:** For local video storage (supports up to 128GB, not included).
- **12V DC Power:** Power input port.
- **RJ45 Ethernet Port:** For wired network connection.
- **Reset Button:** To restore factory settings.

## 4. SETUP

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### 4.1 Physical Installation

1. **Choose a Location:** Select a suitable indoor or outdoor location for mounting. Ensure it has a clear view of the area you wish to monitor and is within range of your WiFi network or accessible for an Ethernet cable.
2. **Mount the Camera:** Use the provided screw bag to securely mount the camera to a wall or ceiling. The camera supports wall mount installation.
3. **Connect Power:** Connect the 12V DC power adapter to the camera's power input port and plug it into a power outlet.
4. **Waterproof Connections:** For outdoor installations, use the provided waterproof lids to protect the power and Ethernet cable connections from moisture.

### 4.2 Network Connection

The camera supports both wired (Ethernet) and wireless (WiFi) connections.

#### Wired Connection (Recommended for initial setup)

1. Connect one end of the Ethernet cable to the camera's RJ45 port and the other end to your router or network switch.
2. Proceed to App Setup.

#### Wireless Connection (Dual Band WiFi 2.4G/5G)

The camera supports both 2.4GHz and 5GHz WiFi bands. 2.4GHz offers a more stable signal and longer transmission distance, while 5GHz provides faster data speeds. Choose the appropriate band based on your router's signal strength and distance.

# Dual Band WiFi

Compatible with 2.4GHz & 5GHz WiFi



Figure 4.1: Illustration of dual-band WiFi coverage, showing 2.4GHz for longer range and 5GHz for faster speed.

1. Ensure the camera is powered on.
2. Download and install the [Camhi](#) or [Camhipro](#) app on your smartphone (available for iOS and Android).
3. Open the app and follow the on-screen instructions to add your camera. This typically involves scanning a QR code on the camera or searching for devices on your local network.
4. During the setup process, you will be prompted to select your WiFi network and enter the password.

## 4.3 Initial Configuration

After connecting, configure basic settings via the Camhi/Camhipro app or HiP2P PC Client.

- **Change Default Password:** For security, immediately change the default password of your camera.
- **Time Zone Setting:** Set the correct time zone for accurate timestamping of recordings.
- **Video Resolution:** Adjust the video resolution (3840x2160, 2560x1440, or 1920x1080) based on your preference and network bandwidth.

# 4K/8MP Super HD View

3 resolution adjustments: 3840x2160, 2560x1440, 1920x1080



Figure 4.2: Visual representation of the 4K, 4MP, and 2MP resolution options available for the camera.

## 5. OPERATING THE CAMERA

### 5.1 Night Vision Modes

The camera offers two night vision modes:

- **Black & White Night Vision:** Infrared lights activate, providing clear black and white images up to 160ft (48.7m).
- **Full Color Night Vision:** Floodlights activate, providing full-color images up to 60ft (18.3m).

Both infrared and floodlights can be manually turned off via the app settings.



Figure 5.1: Comparison of black & white infrared night vision and full-color night vision using floodlights.

## 5.2 Smart Motion Detection & Alerts

The camera features advanced recognition functions to minimize false alarms:

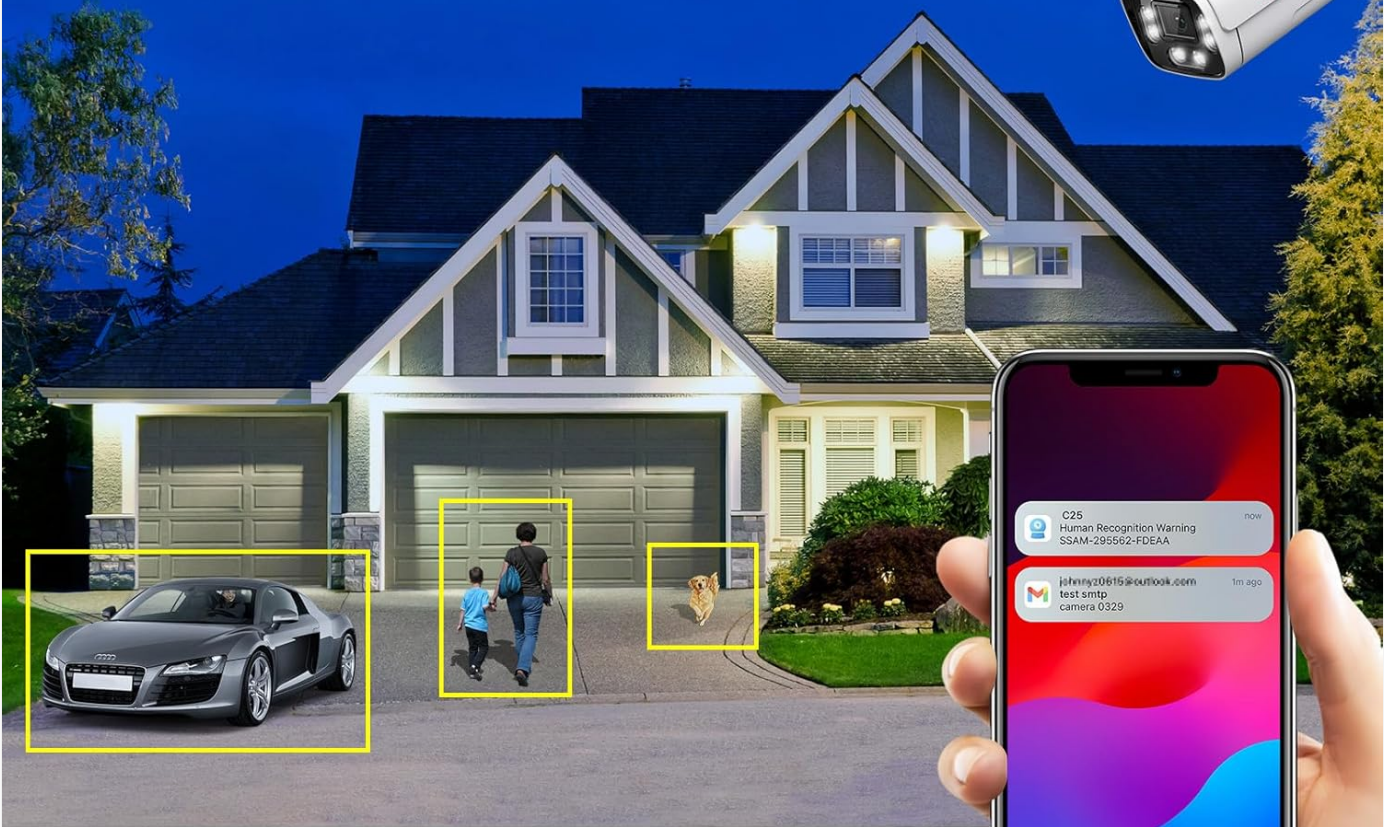
- **Humanoid Recognition:** Detects human shapes.
- **Humanoid - Vehicle Recognition:** Distinguishes between humans and vehicles.
- **Humanoid - Pet Recognition:** Identifies humans and pets.

You can adjust the detection area and sensitivity within the app. When motion is detected, the camera can trigger various alerts:

- Push text notifications to your smartphone.
- Send emails with snapshots.
- Emit an alert sound from the camera.
- Turn on white light (during dark conditions only).
- Record to Micro SD card, Cloud, or FTP server.

# Smart Motion Detection & Alert

Human, Vehicle and Pet Detection, Alert Timely!



Spotlight



Siren



Email



App push

Figure 5.2: Example of smart motion detection identifying human, vehicle, and pet, triggering app notifications and spotlight.

## 5.3 Two-Way Audio

The built-in noise reduction microphone and speaker enable two-way audio communication. This allows you to listen to the camera's surroundings and speak through the camera using the app.



# Two-way Audio

Built-in Microphone and Speaker

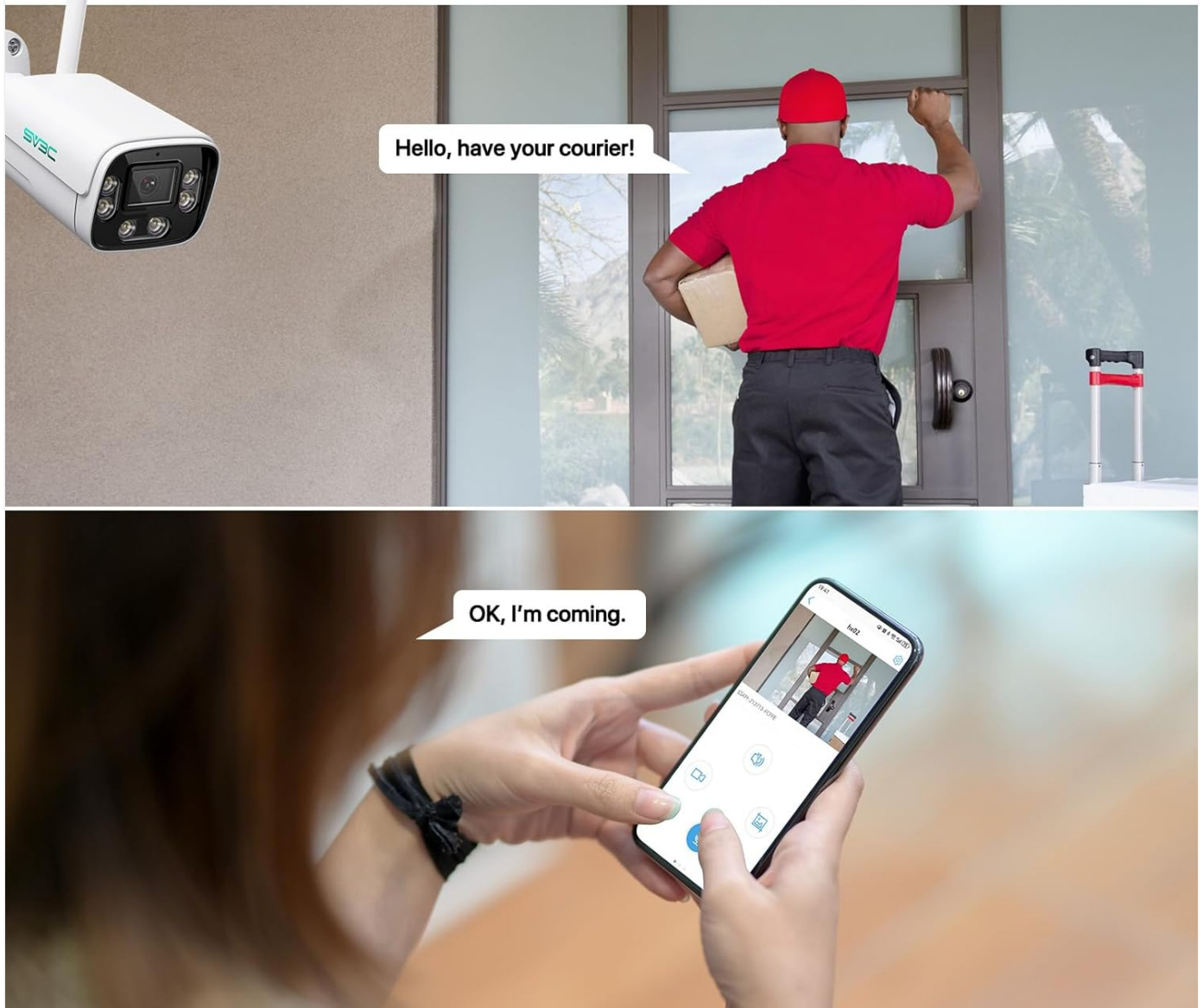


Figure 5.3: Demonstrates two-way audio functionality, allowing communication with individuals near the camera.

## 5.4 Storage and Playback

The camera offers flexible storage options for recorded footage:

- **Micro SD Card:** Supports up to 128GB (not included). This is a cost-effective local storage solution.
- **FTP Server Storage:** Requires a Micro SD card to be installed.
- **Local Storage:** Keep the app or software running on your device for local storage.
- **NVR Storage:** Compatible with some ONVIF NVRs (though not fully compatible with all).
- **Cloud Storage:** Available with a monthly service fee.

You can view live footage and watch playback remotely via the Camhi or Camhipro app.



Figure 5.4: Overview of cloud storage and Micro SD card storage options for video recording and playback.

## 5.5 Software and Browser Compatibility

The SV3C 4K IP camera is designed for versatile access and control:

- **Recommended Apps:** Camhi, Camhipro (for mobile devices).
- **PC Client:** HiP2P PC Client for desktop viewing and setup.
- **Browser Access:** View and set up the camera locally on web browsers such as Edge, Safari, Google Chrome, and Firefox without needing to download additional software.
- **Third-Party Compatibility:** Supports ONVIF, allowing it to work with software like Blue Iris, iSpy, and VLC, as well as some ONVIF compatible NVRs. Note that full compatibility with all third-party software is not guaranteed.

# Support App/Browser/Software

## App & Software



CamHi



CamHipro



HiP2P

## Browser View



Firefox



Chrome



Edge



## Third-party software compatible with ONVIF



iSpy



Blue Iris



Support onvif NVR



VLC

Figure 5.5: Shows compatibility with various apps (CamHi, CamHipro, HiP2P), web browsers (Firefox, Chrome, Edge), and third-party software (iSpy, Blue Iris, VLC, ONVIF NVRs).

## 6. MAINTENANCE

Proper maintenance ensures the longevity and optimal performance of your camera.

- **Cleaning:** Gently wipe the camera lens and body with a soft, damp cloth. Avoid using harsh chemicals or abrasive materials that could scratch the lens or housing.
- **Weather Protection:** The camera has an IP66 waterproof rating and an aluminum shell, making it suitable for outdoor use in various weather conditions (rain, snow, shine, dust). However, ensure all cable connections are properly sealed with the provided waterproof lids.
- **Firmware Updates:** Periodically check for firmware updates through the Camhi/Camhipro app or SV3C's official website to ensure your camera has the latest features and security patches.
- **Cable Management:** Ensure all cables are neatly routed and secured to prevent damage or accidental disconnections.

## 7. TROUBLESHOOTING

Issue	Possible Cause	Solution
Camera offline/Cannot connect to WiFi	Incorrect WiFi password; Camera too far from router; Router settings (firewall, MAC filtering); Incorrect WiFi band selected.	<ul style="list-style-type: none"><li>• Verify WiFi password.</li><li>• Move camera closer to router or use a WiFi extender.</li><li>• Check router settings; temporarily disable MAC filtering.</li><li>• Ensure you are connecting to the correct 2.4GHz or 5GHz band.</li><li>• Try connecting via Ethernet cable for initial setup.</li><li>• Reset the camera using the reset button.</li></ul>
Frequent false alarms	High motion detection sensitivity; Detection area too wide; Environmental factors (moving branches, shadows, insects).	<ul style="list-style-type: none"><li>• Adjust detection sensitivity in the app (lower value).</li><li>• Define specific detection zones to exclude irrelevant areas.</li><li>• Utilize humanoid/vehicle/pet recognition features to filter out non-relevant motion.</li></ul>
No recording to SD card	SD card not inserted correctly; SD card full; SD card corrupted; Recording settings incorrect.	<ul style="list-style-type: none"><li>• Ensure SD card is properly inserted.</li><li>• Format the SD card via the app (this will erase all data).</li><li>• Check recording schedule and motion detection settings in the app.</li><li>• Replace the SD card if it is faulty.</li></ul>
Two-way audio not working	Microphone/speaker disabled in app; Volume too low; Network latency.	<ul style="list-style-type: none"><li>• Check audio settings in the app to ensure microphone and speaker are enabled and volume is adequate.</li><li>• Ensure stable network connection.</li><li>• Restart the camera and app.</li></ul>

## 8. SPECIFICATIONS

Feature	Detail
Model Name	HX03
Video Capture Resolution	8MP (3840x2160), adjustable to 4MP (2560x1440) and 2MP (1920x1080)

Feature	Detail
Image Sensor	1/2.8" IMX415 CMOS
Connectivity Technology	Wired (Ethernet), Wireless WiFi (2.4GHz & 5GHz)
Night Vision Range	Up to 160ft (Black & White), Up to 60ft (Full Color with floodlights)
Special Features	2-Way Audio, Built-in Floodlight, Local Recording, Motion Sensor, Night Vision, Humanoid/Vehicle/Pet Detection
Storage Options	Micro SD (Max 128GB), FTP, Local, NVR, Cloud (subscription required)
Power Source	Corded Electric (12V DC)
Indoor/Outdoor Usage	Indoor, Outdoor
Water Resistance Level	IP66 Waterproof
Material	Aluminum
Dimensions (L x W x H)	7.08 x 2.75 x 2.36 inches
Weight	1.41 pounds
Compatible Devices	Desktop, Laptop, Smartphone, Tablet, Television
Controller Type	Browser, Camhi, Camhipro, HiP2P PC client software
Viewing Angle	87 Degrees
Frame Rate	10 frames per second

## 9. WARRANTY AND SUPPORT

For warranty information and technical support, please refer to the official SV3C website or contact SV3C customer service directly. Keep your purchase receipt as proof of purchase for warranty claims.

### SV3C Technology

For further assistance, visit the [SV3C Store on Amazon](#).