

## Raycom ACS229

# Raycom 2K Security Camera Outdoor Instruction Manual

Brand: Raycom | Model: ACS229

## 1. INTRODUCTION AND OVERVIEW

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The Raycom 2K Security Camera is a wireless WiFi camera designed for outdoor home security. It features a 3MP sensor for 2K resolution, providing clear and detailed surveillance footage. Key functionalities include a 360° panoramic view, advanced AI detection with auto tracking, two-way audio communication, and full-color night vision capabilities. This manual will guide you through the installation, operation, and maintenance of your security camera.



Figure 1.1: Main unit of the Raycom 2K Security Camera.

## 2. WHAT'S IN THE BOX

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Upon opening the package, verify that all the following components are included:

- Raycom 2K Security Camera Unit
- Power Adapter
- Mounting Screws and Anchors
- Waterproof Kit for Cable Connections
- Operation Instruction Manual
- Warning Stickers (24-hour video surveillance)

# Two Storage Methods & Privacy protection

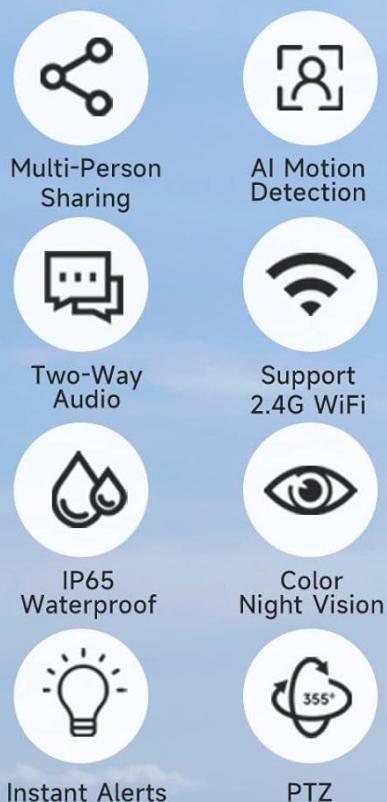


Figure 2.1: All components included with the Raycom 2K Security Camera.

## 3. SETUP

### 3.1 App Installation

The Raycom camera operates via a dedicated mobile application. Please follow these steps to install the app and connect your camera:

1. Scan the QR code provided in the manual or on the product packaging to download the 'Tuya Smart' app from your device's app store.
2. Register or log in to your account within the app.
3. Ensure your mobile device is connected to a 2.4 GHz Wi-Fi network. (Note: 5 GHz Wi-Fi is not supported).
4. In the app, tap the '+' icon in the upper right corner to add a new device.
5. Select 'Security & Video Surveillance' then 'Smart Camera (Wi-Fi)'.
6. Follow the on-screen prompts to connect the camera to your Wi-Fi network. This typically involves scanning a QR code displayed on your phone with the camera lens.

*Video 3.1: Detailed guide on downloading the app and connecting the camera to your smartphone.*



*Figure 3.2: Scan this QR code to quickly download the 'Tuya Smart' app.*

## 3.2 Physical Installation

Choose a suitable outdoor location for your camera, ensuring it has a clear line of sight to the area you wish to monitor and is within range of your Wi-Fi signal. The camera is designed for easy installation.

1. Mark the drilling points on the wall using the camera's base as a template.
2. Drill holes and insert the provided anchors.
3. Secure the camera base to the wall using the mounting screws.
4. Connect the power adapter to the camera and plug it into a power outlet. Ensure the connection is waterproofed if exposed to elements.

*Video 3.3: Visual demonstration of the camera's easy physical installation process.*

## 4. OPERATING INSTRUCTIONS

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### 4.1 Remote Control & Live View

Once connected, you can access the live feed from your camera anytime, anywhere via the 'Tuya Smart' app. The app provides full control over the camera's pan (355°) and tilt (90°) movements, allowing you to adjust the viewing angle remotely. You can also zoom in and out for more detailed observation.



Figure 4.1: The camera offers 2K HD resolution and pan-tilt functionality for comprehensive coverage.

## 4.2 Motion Detection & Auto Tracking

The camera is equipped with advanced AI human detection and auto-tracking features. When human motion is detected, the camera will automatically track the subject and send real-time alerts to your smartphone. This intelligent filtering minimizes false alarms from animals or passing vehicles.

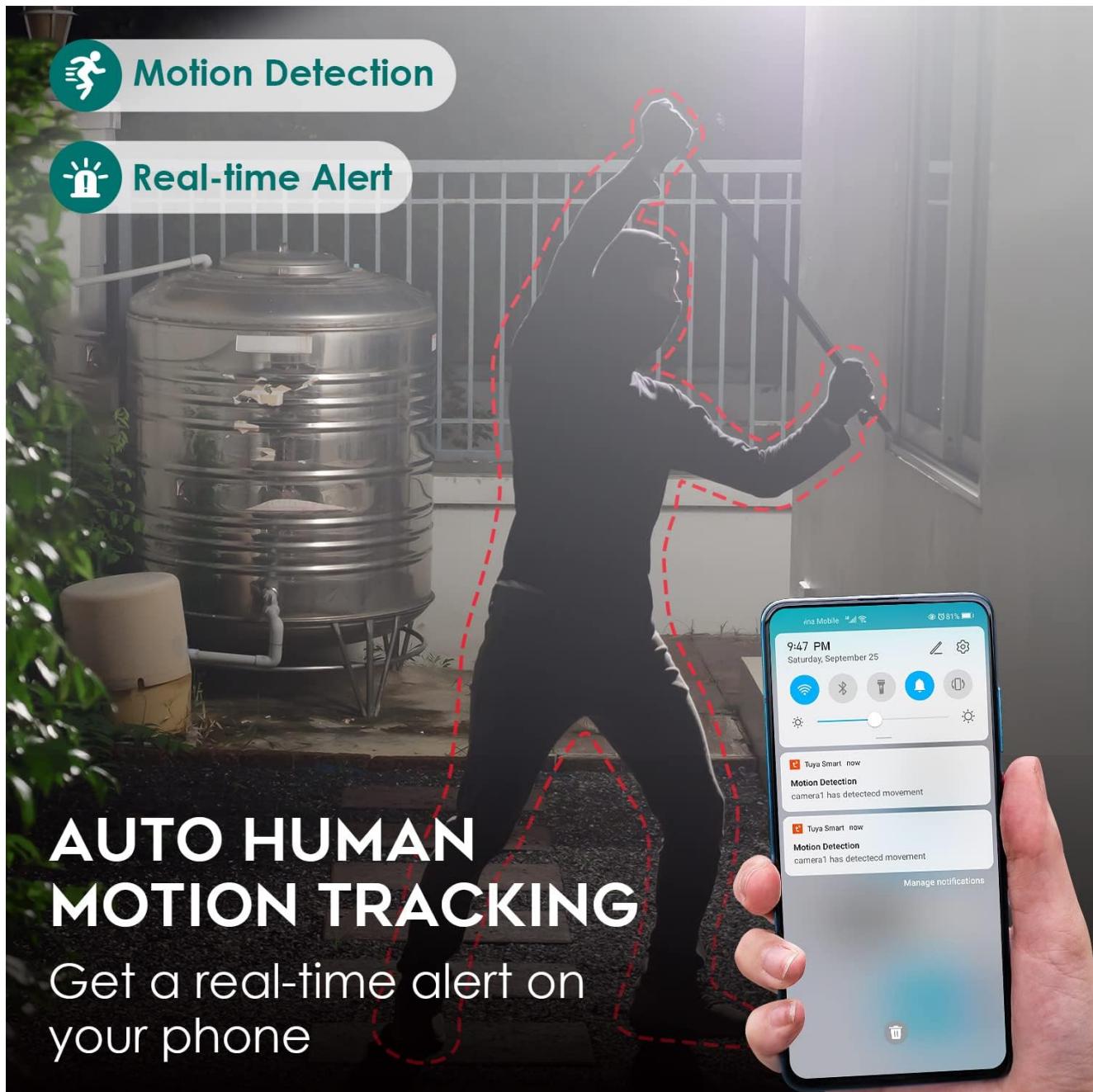


Figure 4.2: The camera's AI detection provides real-time alerts and auto-tracking for human motion.

### 4.3 Two-Way Audio

With the built-in microphone and speaker, the camera supports two-way audio communication. You can listen to what's happening around the camera and speak directly through the app, allowing you to interact with visitors or deter intruders.

## 2 Way Audio with Built-in Mic&Speaker



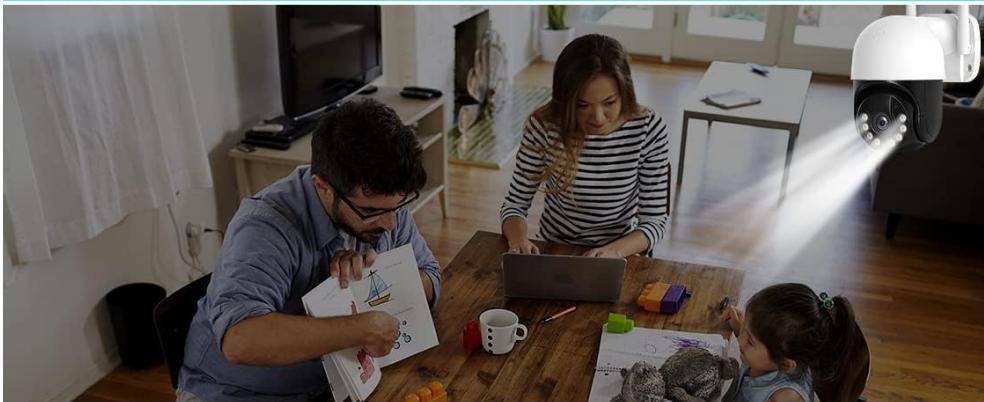
Figure 4.3: Engage in two-way conversations through the camera's integrated audio system.

### 4.4 Night Vision Modes

The Raycom camera offers three distinct night vision modes to ensure clear visibility in low-light conditions:

- **Smart Mode:** Automatically switches between infrared (black and white) and full-color night vision based on detected motion or light conditions.
- **Infrared Mode:** Provides clear black and white images in complete darkness using infrared LEDs.
- **Full Color Mode:** Utilizes built-in spotlights to illuminate the area, providing vivid full-color video even at night.

## 3 kinds of night vision mode



Smart  
Mode



Infrared  
Mode



Full  
Color  
Mode

Figure 4.4: Choose from Smart, Infrared, or Full Color night vision for optimal visibility.



Figure 4.5: Visual comparison demonstrating the clarity of color mode versus IR mode at night.

## 4.5 Storage Options

The camera supports two primary methods for video storage:

- **Micro SD Card:** Supports local storage up to 128GB for continuous or event-based recording.
- **Cloud Storage:** Offers secure cloud-based storage plans (monthly subscription required) for event recording, intelligent notifications, and motion tracking.

# Experience magnificent 2K footage



Figure 4.6: Overview of available storage methods and their respective features.

## 5. MAINTENANCE

To ensure optimal performance and longevity of your Raycom security camera, regular maintenance is recommended:

- **Cleaning:** Periodically wipe the camera lens and body with a soft, damp cloth to remove dust and debris. Avoid using harsh chemicals or abrasive materials.
- **Firmware Updates:** Check the 'Tuya Smart' app regularly for firmware updates. Keeping the firmware updated ensures the camera has the latest features and security enhancements.
- **Connectivity Check:** Periodically verify the Wi-Fi connection strength in the app to ensure stable operation.

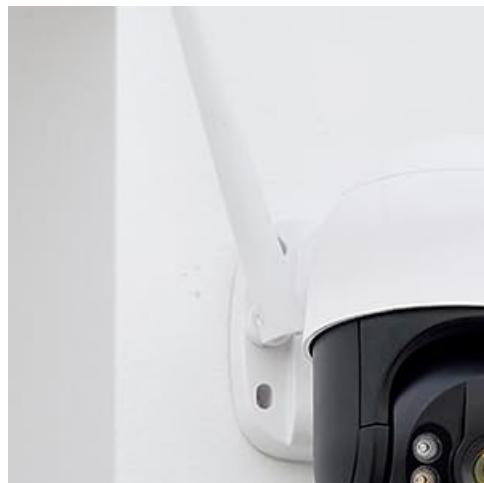


Figure 5.1: The camera boasts an IP65 waterproof rating, ensuring durability in various weather conditions.

## 6. TROUBLESHOOTING

If you encounter issues with your Raycom security camera, refer to the following common troubleshooting steps:

Issue	Possible Cause	Solution
Camera Offline	No power; Weak Wi-Fi signal; Router issue	Check power connection; Relocate camera closer to router; Restart router.
No Motion Alerts	Motion detection off; Sensitivity too low; Human body filtering enabled	Enable motion detection in app settings; Adjust sensitivity; Disable human body filtering if needed.
Poor Video Quality	Weak Wi-Fi signal; Dirty lens	Improve Wi-Fi signal; Clean camera lens.
Two-Way Audio Issues	Microphone/speaker muted; Network delay	Check audio settings in app; Ensure stable network connection.

## 7. SPECIFICATIONS

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Feature	Detail
Brand	Raycom
Model Number	ACS229
Video Capture Resolution	3 MP (2K)
Connectivity Technology	Wireless (Wi-Fi)
Wireless Communication Technology	Wi-Fi (2.4 GHz)
Pan/Tilt Range	355° Pan, 90° Tilt
Night Vision	Full Color, Infrared, Smart Mode
Special Features	Night Vision, Motion Sensor, AI Detection, Auto Tracking, 2-Way Talk
Indoor/Outdoor Usage	Outdoor
International Protection Rating	IP65
Power Source	Battery Powered (Note: Product specifications indicate 'Battery Powered' but also 'Wattage: 6 Watt-hours' and 'Batteries Required?: No', suggesting it's likely powered via adapter with potential internal battery for backup or specific models. Please refer to product packaging for exact power requirements.)

Feature	Detail
Item Dimensions L x W x H	9.21 x 8.43 x 4.92 inches
Item Weight	1.61 pounds
UPC	768490168272

## 8. WARRANTY AND SUPPORT

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For warranty information and technical support, please refer to the documentation included in your product packaging or visit the official Raycom website. Contact details for customer service are typically provided in the 'Operation Instruction' booklet.