BOAVISION 4K/8MP Wireless WiFi IP Camera

BOAVISION 4K/8MP Wireless WiFi IP Camera User Manual

Model: 4K/8MP Wireless WiFi IP Camera
Brand: BOAVISION

1. INTRODUCTION

This manual provides detailed instructions for the installation, operation, and maintenance of your BOAVISION 4K/8MP Wireless WiFi IP Camera. This outdoor security camera offers advanced features including 4K/8MP resolution, 360° pan-tilt view, AI-powered human/pet/vehicle detection, auto-tracking, two-way audio, and full-color night vision. Please read this manual thoroughly before using the product to ensure proper setup and optimal performance.

Figure 1.1: BOAVISION 4K/8MP Wireless WiFi IP Camera. This image shows the white dome-shaped camera with two antennas, mounted on a bracket, and a smartphone screen displaying the camera's live feed with pan/tilt controls.

2. PRODUCT FEATURES

- **4K/8MP HD Resolution & Pan Tilt:** Equipped with a 4K/8MP sensitive CMOS sensor, providing ultra-high quality resolution of 3840×2160. Features 350° horizontal rotation and 110° vertical tilt for comprehensive area coverage.

- **AI Human/Pet/Vehicle Detection & Two-Way Talk:** Utilizes intelligent AI motion detection to differentiate between people, pets, and vehicles, significantly reducing false alarms. Customizable detection areas and sensitivity via the mobile application. Built-in microphone and speaker enable two-way communication.

- **Floodlight & Alarm Siren:** The integrated floodlight can be configured to activate upon motion detection in low-light conditions. A sound alarm siren can also be set to deter intruders.

- **All Platform Supported:** Compatible with both 2.4GHz and 5GHz Wi-Fi networks. Supports various devices including smartphones (iOS, Android), tablets (iPad, Android), and PCs (Mac OS, Windows) for convenient remote viewing.

- **3rd Party Software Support:** Designed to connect with popular NVR, NAS, and third-party surveillance systems such as Blue Iris, iSpy, Tinycam, IPCamViewer, Synology, and QNAP, including 2K/4K NVRs.

Figure 2.1: Super HD 4K/8MP View. This image illustrates the difference in clarity between 2MP, 5MP, and 8MP resolutions, highlighting the superior detail provided by the 4K/8MP display.
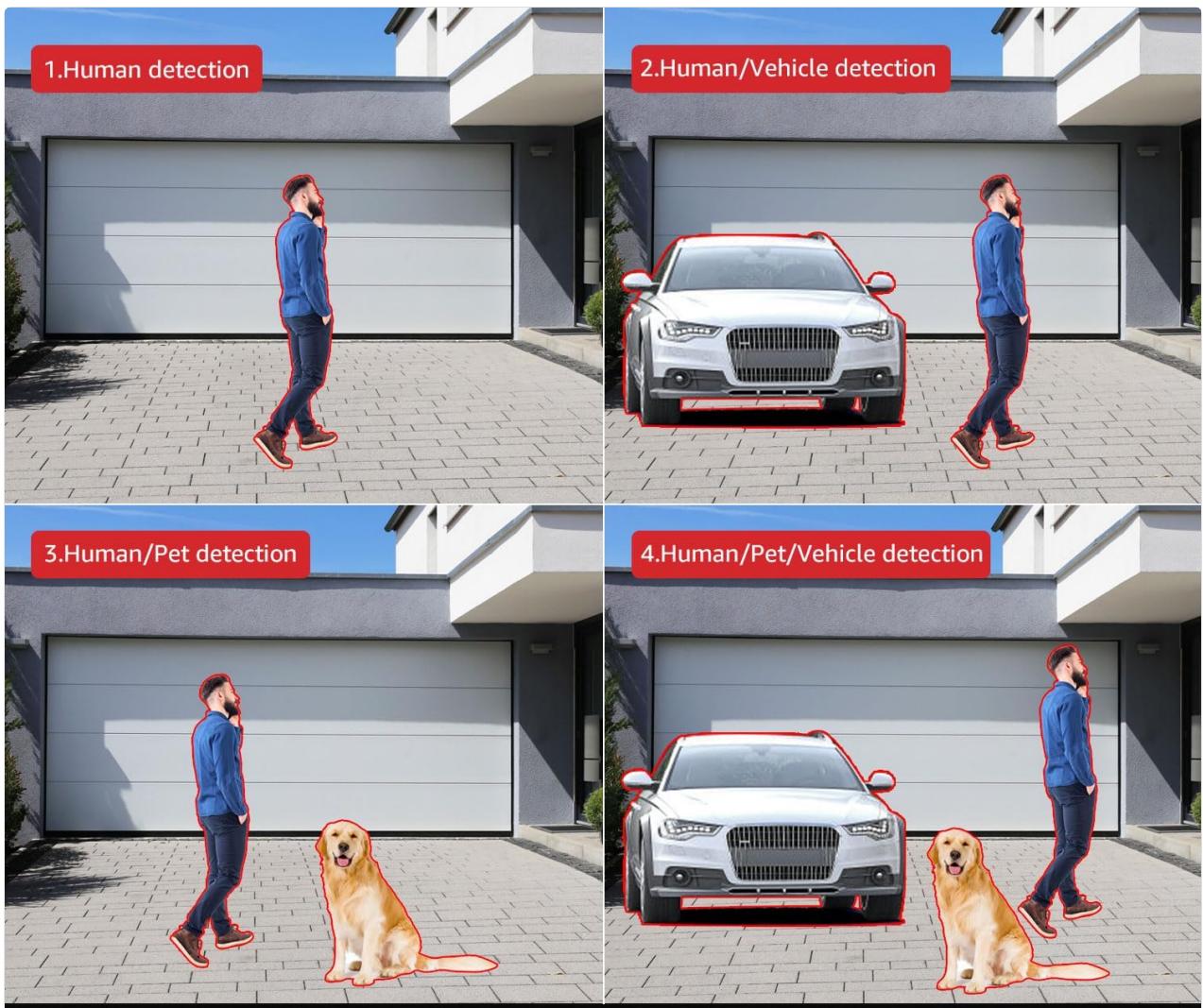
Figure 2.2: Smart AI Recognition. This image shows four panels demonstrating the camera's ability to detect and outline humans, vehicles, and pets, reducing false positives.

Figure 2.3: Pan Tilt Zoom. This image displays the camera mounted on a wall, with icons indicating Full HD, Human Tracking, Alarm Push, Two Way Audio, Wifi, Color Night Vision, 4X Digital Zoom, and Pan Tilt Rotation. An overlay shows a hand controlling the pan and tilt on a smartphone screen.

3. SETUP GUIDE

3.1 Package Contents

Please ensure all components are present before proceeding with installation:

- BOAVISION 4K/8MP Wireless WiFi IP Camera
- 12V Power Adapter
- Mounting Screws and Anchors
- Waterproof Kit for Network Cable (if applicable)
- Quick Start Guide (refer to this manual for full details)

3.2 Powering On the Camera

1. Connect the provided 12V power adapter to the camera's power input port.

2. Plug the power adapter into a standard electrical outlet.

3. Allow the camera a few moments to power on and perform its self-test (you may hear a slight motor movement as it calibrates).

3.3 Mobile Application Installation

The BOAVISION camera operates with the CamHiPro mobile application.

1. Download the "CamHiPro" app from the Apple App Store (for iOS devices) or Google Play Store (for Android devices).

2. Install the application on your smartphone or tablet.

3. Register a new account or log in if you already have one.
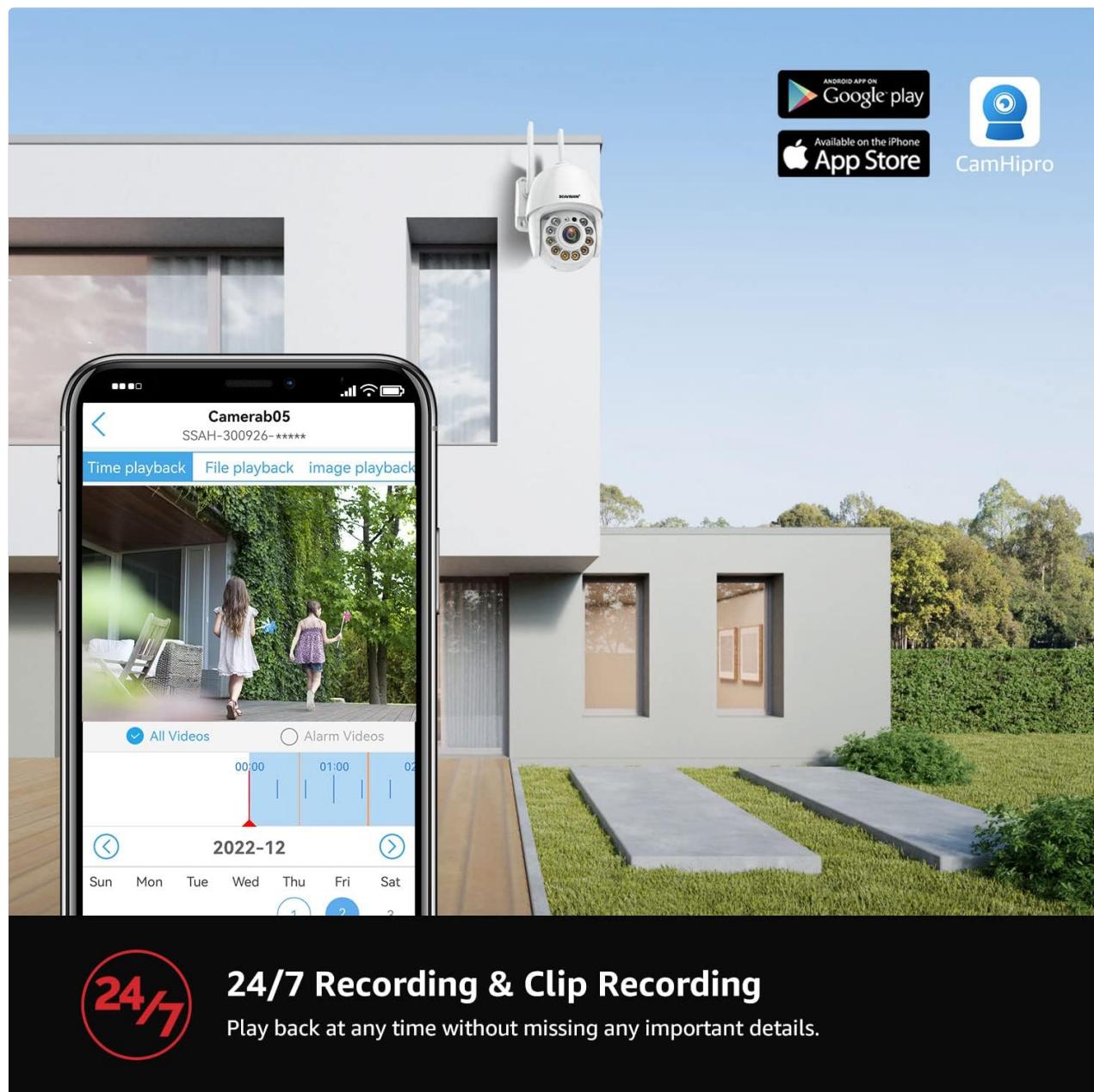
Figure 3.1: CamHiPro App Interface. This image shows a smartphone displaying the CamHiPro app interface with video playback options, and the camera mounted on the exterior of a house.

3.4 Connecting to Wi-Fi

The camera supports both 2.4GHz and 5GHz Wi-Fi networks.

1. Open the CamHiPro app and tap the "+" icon to add a new device.

2. Follow the on-screen instructions to connect the camera to your Wi-Fi network. This typically involves scanning a QR code on the camera or using an audio pairing method.

3. Ensure your smartphone is connected to the same Wi-Fi network you intend to connect the camera to during the initial setup.

4. Once connected, you can name your camera and begin live viewing.

3.5 Physical Installation

The camera is designed for outdoor use and is rated IP66 waterproof.

1. Choose a suitable mounting location that provides the desired viewing angle and is within range of your Wi-Fi signal and a power outlet.

2. Use the provided mounting template (if included) to mark drill holes.

3. Drill pilot holes and insert wall anchors if mounting on masonry or drywall.

4. Secure the camera's mounting bracket to the surface using the provided screws.

5. Attach the camera to the mounting bracket.

6. Ensure all cable connections are secure and protected from weather using the waterproof kit if necessary.

Waterproof IP66

ABS Plastic Housing Material, Outdoor & indoor Use, suit for any weather condition.

Figure 3.2: Waterproof IP66. This image shows the camera mounted outdoors in the rain, emphasizing its ABS plastic housing material and suitability for any weather condition.

4. OPERATING INSTRUCTIONS

4.1 Live View and Pan/Tilt Control

- Open the CamHiPro app and select your camera from the device list to access the live view.
- Use the on-screen joystick or swipe gestures to control the camera's pan (horizontal 350°) and tilt (vertical 110°) movements.

4.2 Two-Way Audio

- While in live view, tap the microphone icon in the app to enable two-way audio.
- Speak into your phone's microphone to communicate through the camera's built-in speaker.
- Tap the speaker icon to listen to audio from the camera's microphone.
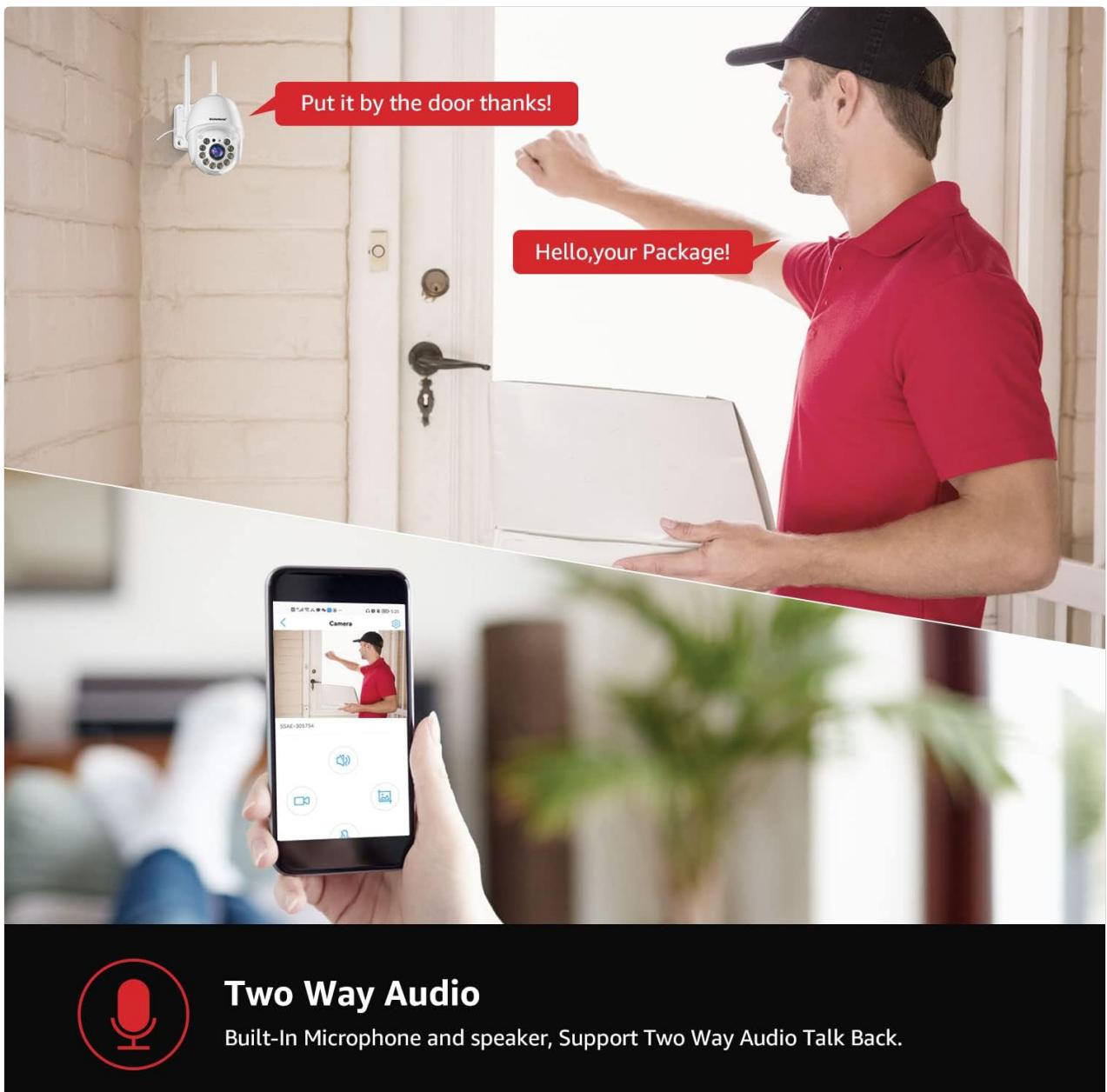
Figure 4.1: Two Way Audio. This image depicts a delivery person at a door and a user viewing the camera feed on a smartphone, demonstrating the two-way communication feature.

4.3 Motion Detection and AI Recognition

- Navigate to the "Settings" or "Alarm" section within the CamHiPro app.

- Enable motion detection and configure sensitivity levels.

- Select AI recognition options (Human, Pet, Vehicle detection) to filter alerts and reduce false alarms.

- Set up detection zones to focus monitoring on specific areas.

- Enable push notifications to receive alerts on your mobile phone when motion is detected.

4.4 Night Vision Modes

The camera offers multiple night vision options:

- **Infrared Night Vision:** Provides clear black and white images in complete darkness using IR LEDs.

- **Color Night Vision:** Activates the built-in white light LEDs to provide full-color video even in low-light conditions.

- **Floodlight Mode:** The floodlight can be set to automatically turn on when motion is detected in the dark,

illuminating the area and providing color night vision.

Figure 4.2: Night Vision Modes. This image illustrates the three night vision options: Infrared Night Vision (black and white), Color Night Vision (full color with white light), and Floodlight ON when motion is detected.

4.5 Recording and Playback

- The camera supports 24/7 continuous recording or event-triggered recording (e.g., motion detection).

- Insert a microSD card (not included) into the camera's designated slot for local storage.

- Access recorded footage via the "Playback" or "History" section in the CamHiPro app. You can view specific timeframes or event clips.

5. MAINTENANCE

- **Cleaning:** Regularly wipe the camera lens and housing with a soft, damp cloth to remove dust and dirt. Do not use harsh chemicals or abrasive cleaners.

- **Firmware Updates:** Check the CamHiPro app periodically for available firmware updates. Keeping the

firmware updated ensures optimal performance, security, and access to new features.

- **Cable Inspection:** Periodically inspect the power cable and any network cables for signs of wear or damage, especially if exposed to outdoor elements.

- **Wi-Fi Signal:** Ensure the camera maintains a strong Wi-Fi signal for stable operation. If the signal is weak, consider relocating the camera or using a Wi-Fi extender.

6. TROUBLESHOOTING

Problem	Possible Cause	Solution
Camera offline/Cannot connect to Wi-Fi	Weak Wi-Fi signal; Incorrect Wi-Fi password; Router issues; Camera too far from router.	- Ensure camera is within Wi-Fi range. - Verify Wi-Fi password. - Restart your router and the camera. - Try connecting to a 2.4GHz network if using 5GHz, or vice-versa.
No motion detection alerts	Motion detection disabled; Sensitivity too low; Detection zone not set correctly; App notifications blocked.	- Enable motion detection in app settings. - Increase sensitivity. - Adjust detection zones. - Check phone notification settings for the CamHiPro app.
Poor image quality at night	Lens obstruction; Night vision mode not optimal; Insufficient ambient light for color night vision.	- Clean the camera lens. - Ensure night vision mode is set correctly (IR or Color). - If using color night vision, ensure there's enough ambient light or the floodlight is enabled.
Two-way audio not working	Microphone/speaker muted in app; Phone volume too low; App permissions.	- Unmute microphone and speaker icons in the app. - Increase phone volume. - Grant microphone permissions to the CamHiPro app in your phone settings.

7. SPECIFICATIONS

Feature	Detail

| Feature	Detail
Recommended Uses For Product	Outdoor Security
Brand	BOAVISION
Connectivity Technology	Wireless (2.4GHz & 5GHz Wi-Fi)
Special Feature	Motion Sensor, AI Human/Pet/Vehicle Detection, Auto Tracking, Two-Way Talk, Pan/Tilt, Full Color Night Vision, Floodlight, Alarm Siren
Indoor/Outdoor Usage	Outdoor (IP66 Waterproof)
Resolution	4K/8MP (3840×2160)
Pan/Tilt Range	Pan 350°, Tilt 110°
Power Supply	12V (Adapter Included)
Storage	MicroSD Card (not included), NVR/NAS support
Supported Platforms	iOS, Android, Mac OS, Windows

8. WARRANTY AND SUPPORT

For warranty information and technical support, please refer to the documentation provided with your purchase or visit the official BOAVISION website. You can also contact the retailer where you purchased the product for assistance.

For more information about BOAVISION products, visit their official store:BOAVISION Store on Amazon.

Related Documents
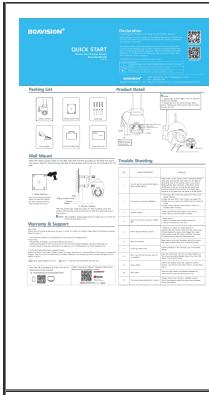
[BOAVISION HD22M102M Quick Start Guide: Setup and Troubleshooting](#)
Comprehensive quick start guide for the BOAVISION HD22M102M Wireless Pan/Tilt Home Security Camera. Includes setup instructions, product details, troubleshooting tips, and warranty information.
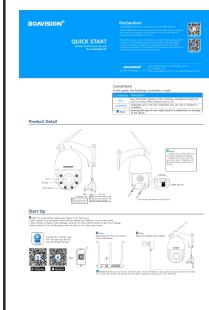
[Boavision W54F5MP-WP Quick Start Guide](#)
A quick start guide for the Boavision W54F5MP-WP Wireless Pan/Tilt Home Security Camera, covering setup, wall mounting, and troubleshooting.