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BOAVISION HD22M502M

BOAVISION 5MP Wireless Outdoor Security Camera

Model: HD22M502M

1. INTRODUCTION

This manual provides detailed instructions for the installation, operation, and maintenance of your BOAVISION 5MP Wireless Outdoor Security Camera, Model HD22M502M. This camera is designed for outdoor surveillance, offering high-resolution video, advanced motion detection, and remote access capabilities.





Image 1.1: BOAVISION 5MP Wireless Outdoor Security Camera overview.

2. PACKAGE CONTENTS

Please verify that all items are present in your package:

- BOAVISION 5MP Wireless Outdoor Security Camera
- Power Adapter (DC12V)
- Mounting Screws and Anchors
- Waterproof Kit for Ethernet Cable (if applicable)
- User Manual

3. SETUP AND INSTALLATION

3.1 Power Connection

Connect the provided DC12V power adapter to the camera. Ensure the connection is secure. The power cable length is approximately 3 meters (9.8 feet).



Image 3.1: Power connection for the camera.

3.2 Mounting the Camera

The camera is designed for wall mounting. Select a suitable outdoor location with a clear view and strong Wi-Fi signal. Use the provided screws and anchors to securely attach the camera to the wall.

3.3 Network Connection and App Setup

The camera supports both 2.4G and 5G Wi-Fi connectivity. For initial setup and remote control, download the recommended mobile application (e.g., CamHiPro) on your iOS or Android device. The camera can also be accessed via tablets and PC.

1. Download the CamHiPro app from the App Store (iOS) or Google Play Store (Android).
2. Register an account and log in.
3. Follow the in-app instructions to add your camera, typically by scanning a QR code on the camera or manually entering its ID.
4. Connect the camera to your Wi-Fi network through the app.



Image 3.2: CamHiPro app interface for recording and playback.



Image 3.3: Device compatibility for remote viewing.

4. OPERATING INSTRUCTIONS

4.1 High-Definition Video

The camera features a 5MP CMOS sensor, providing a resolution of 2560x1920 pixels for clear and detailed video surveillance.

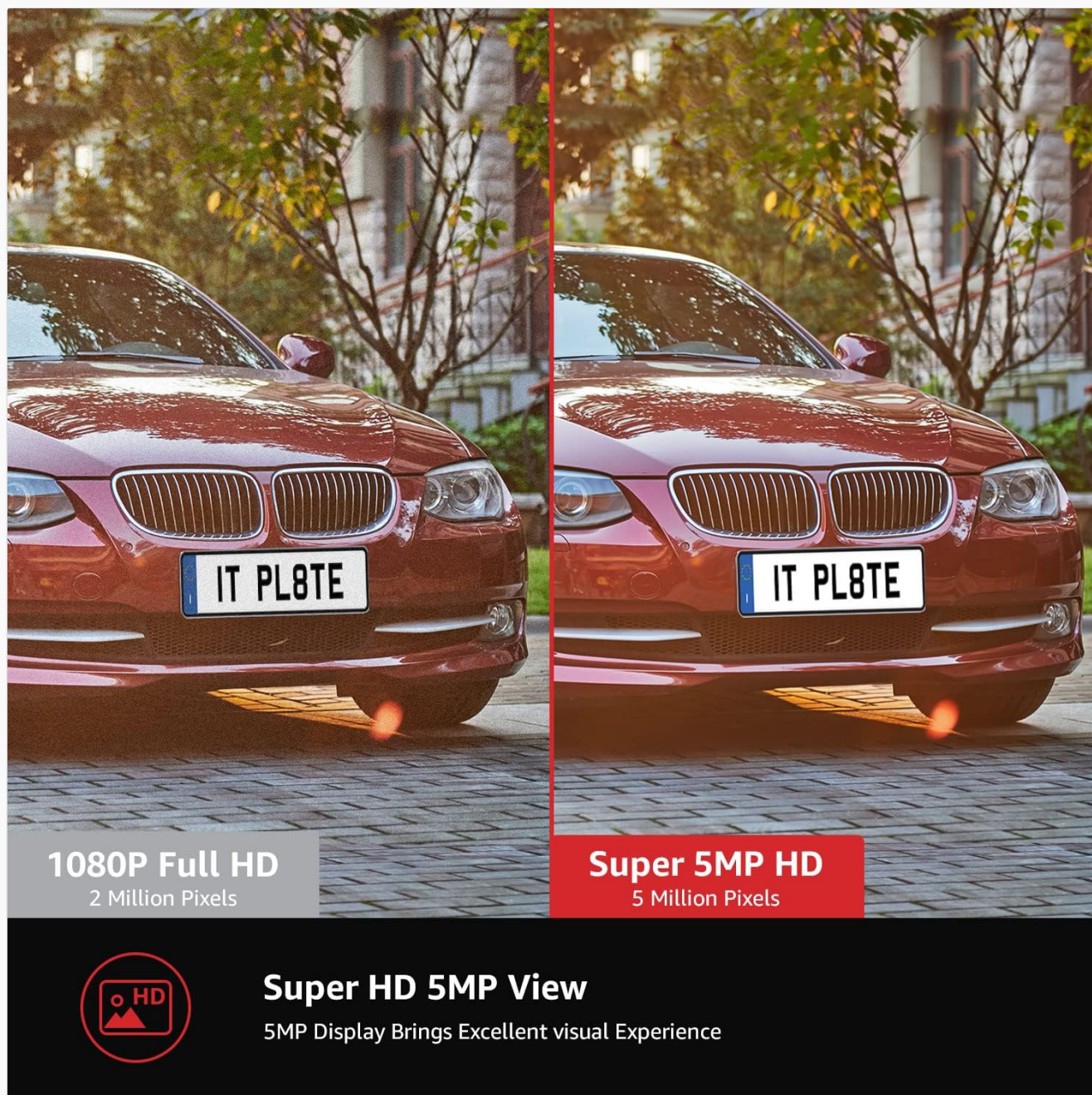


Image 4.1: Visual comparison of 1080P and 5MP resolution.

4.2 Pan, Tilt, and Zoom (PTZ) Functionality

Control the camera's viewing angle remotely through the mobile app. The camera offers 355° pan and 90° tilt rotation, along with 4X digital zoom, to cover a wide area.



Image 4.2: Pan, Tilt, and Zoom capabilities.

4.3 AI Motion Detection and Auto Tracking

The camera features intelligent AI motion detection that can distinguish between humans and other moving objects, reducing false alarms. When motion is detected, the camera can automatically track the subject.



Image 4.3: AI Humanoid Detection and Tracking.

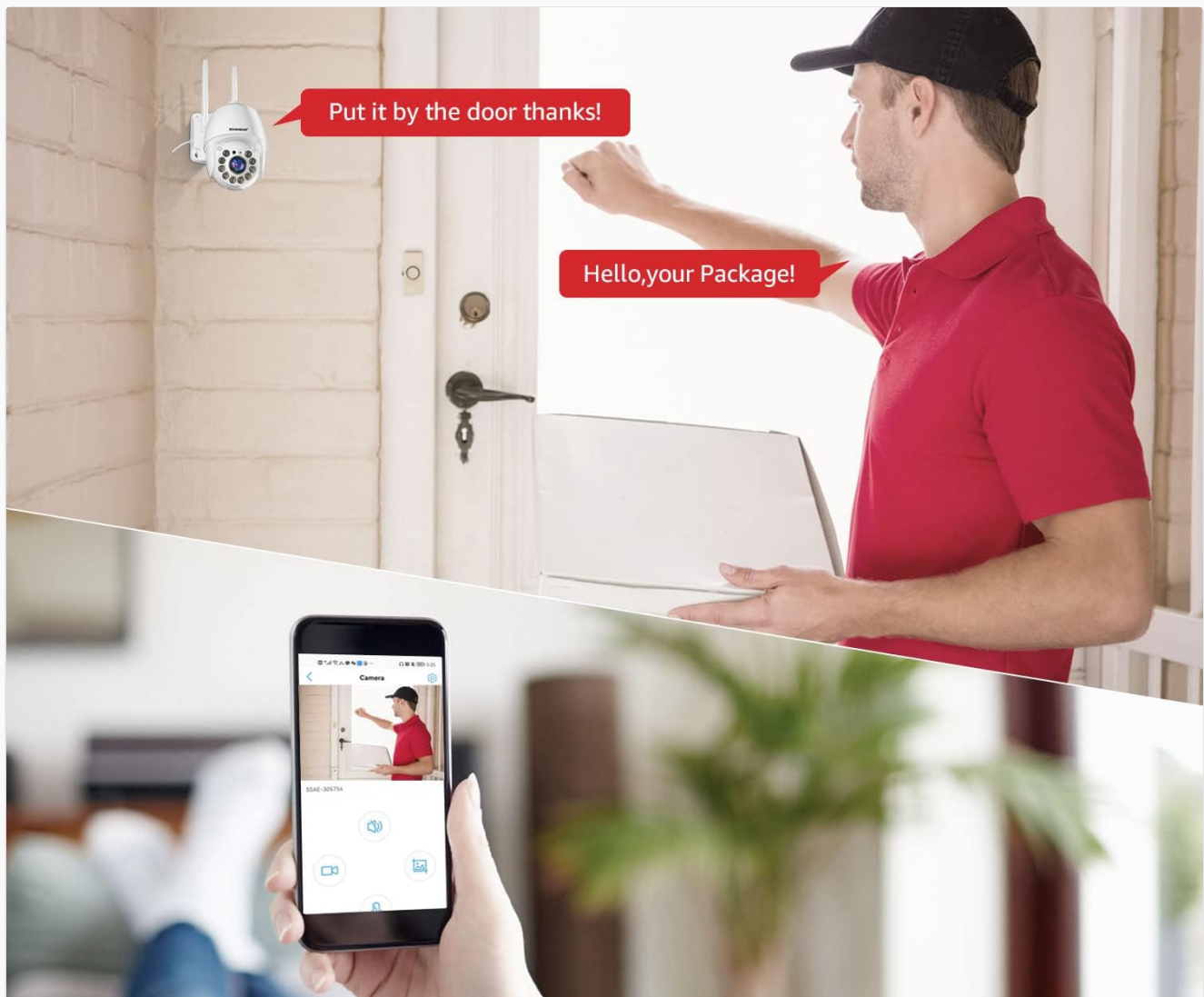


Image 4.4: Illustration of AI intelligent humanoid tracking.

4.4 Night Vision Modes and Floodlight

The camera offers multiple night vision modes:

- **Infrared Night Vision:** Utilizes 4 array IR LEDs for clear black and white video in low light.
- **Full Color Night Vision:** Activates 6pcs spot white light LEDs for color video in darkness.
- **Floodlight on Motion:** The white floodlight automatically turns on when motion is detected in dark conditions, providing illumination and acting as a deterrent.



Two Way Audio

Built-In Microphone and speaker, Support Two Way Audio Talk Back.

Image 4.5: Different night vision modes.



Image 4.6: Floodlight and siren alarm functionality.

4.5 Two-Way Audio

The built-in microphone and speaker enable two-way communication, allowing you to listen and speak through the camera via the mobile app.



Waterproof IP66

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

Image 4.7: Two-way audio communication.

4.6 Recording and Storage

The camera supports 24/7 continuous recording and event-triggered clip recording. Footage can be stored on a local SD card (not included) or integrated with compatible NVR systems.

4.7 Third-Party Software Support

This camera is compatible with various third-party software and systems, including Blue Iris, iSpy, Synology, QNAP, and NVR systems, for advanced recording and monitoring options.



5. MAINTENANCE

5.1 Weather Resistance

The camera features an IP65 international protection rating, indicating it is protected against dust ingress and low-pressure water jets from any direction. This makes it suitable for outdoor use in various weather conditions.



Image 5.1: Camera demonstrating waterproof design.

5.2 Cleaning

To maintain optimal image quality, periodically clean the camera lens with a soft, damp cloth. Avoid using harsh chemicals or abrasive materials.

6. TROUBLESHOOTING

- **Camera frequently goes offline:** Ensure a strong and stable Wi-Fi signal at the camera's location. Consider relocating the Wi-Fi router or using a Wi-Fi extender. If the issue persists, try power cycling the camera by unplugging and re-plugging it.
- **Poor video quality or pixelation:** Check your network connection speed. Ensure the camera lens is clean and free from obstructions. Adjust camera settings within the app for optimal resolution.
- **False motion detection alerts:** Adjust the AI humanoid and motion sensitivity settings in the app to reduce triggers from environmental factors like insects or moving foliage.
- **Cannot view recorded files from SD card on PC:** The camera may save files in specific formats (.625 or .624) that require proprietary software or specific converters. Try viewing recordings directly through the mobile app or compatible third-party software.
- **Two-way audio not working:** Check microphone and speaker settings in the app. Ensure volume levels are adequate on both the camera and your viewing device.

7. SPECIFICATIONS

Feature	Specification
Model Number	HD22M502M
Video Capture Resolution	5 MP (2560x1920)
Connectivity Technology	Wi-Fi (2.4G/5G)
Power Source	Corded Electric (DC12V)

Pan/Tilt Field of View	355° Pan, 90° Tilt
Special Features	Motion Sensor, Night Vision (Infrared, Full Color), Auto Tracking, Two-Way Talk, Floodlight
Indoor/Outdoor Usage	Outdoor
International Protection Rating	IP65
Compatible Devices	Desktop, Smartphone (iOS, Android), Tablet
Mounting Type	Wall Mount
Product Dimensions	6.4 x 4.1 x 3.9 inches
Item Weight	1.79 pounds

8. SUPPORT

For further assistance or technical support, please refer to the BOAVISION official website or contact their customer service. Ensure you have your product model number (HD22M502M) available when seeking support.

