**BOIFUN R3 Pro**

# BOIFUN R3 Pro 4K 8MP Outdoor Security Camera User Manual

Model: R3 Pro

## 1. INTRODUCTION

The BOIFUN R3 Pro is an advanced outdoor security camera designed to provide comprehensive surveillance with high-resolution imaging and smart features. Equipped with a 4K (8MP) sensor, it delivers clear and detailed video footage day and night. Its integrated 10000mAh battery, complemented by a solar panel, ensures continuous operation without the need for frequent recharging or external power wiring. The camera supports the latest WiFi 6 technology for stable connectivity and features PIR human detection to minimize false alarms, sending instant alerts to your smartphone.

With PTZ (Pan-Tilt-Zoom) functionality, the camera offers a 360-degree horizontal and 120-degree vertical rotation, providing extensive coverage. Two-way audio allows for real-time communication, and support for up to 128GB MicroSD card storage ensures ample recording capacity. The IP65 waterproof rating guarantees durability in various outdoor conditions.

Figure 1: BOIFUN R3 Pro 4K 8MP Outdoor Security Camera with Solar Panel

## 2. PACKAGE CONTENTS

Please check the package to ensure all items are present:

- Camera Unit
- Solar Panel
- Charging Cable
- Mounting Screws
- Instruction Manual
- Stand

Figure 2: Labeled diagram of the camera's external components.

# 3. Setup

## 3.1 Pre-Installation Checklist

- Before installation, connect the camera and your mobile phone, then verify that the device is functioning correctly.
- Fully charge the camera to 100% using the provided power cable before proceeding with installation.

## 3.2 Physical Installation

The BOIFUN R3 Pro camera offers flexible installation options, including wall mounting. Ensure you choose a location with optimal sunlight exposure for the solar panel and a clear view of the area you wish to monitor.

Video 1: Detailed installation guide for the BOIFUN Solar Security Camera, demonstrating wall mounting and solar panel attachment.

**Installation Steps:**

1. **Marking Drill Holes:** Use the positioning sticker to mark the drill holes on the wall.
2. **Drilling:** Drill holes at the marked positions. Insert the expansion screws into the holes.
3. **Mounting the Camera Stand:** Secure the camera stand to the wall using screws.
4. **Attaching the Camera:** Slide the camera onto the stand from top to bottom until it is securely fixed.
5. **Mounting the Solar Panel:** Secure the solar panel stand to the wall. Rotate clockwise to connect the solar panel to its stand.
6. **Connecting the Charging Cable:** Properly connect the charging cable to the camera to prevent water ingress.

双方向通話可能

この防犯カメラにはスピーカーとマイクが内蔵されており、外出先でも不審者を脅したり、遠方の家族と通話したり、訪問者を確認したりすることができます。

Figure 3: Visual guide for the easy connection process.

## 3.3 App Setup

Download the dedicated app and register an account before connecting. Allow the "Boifun Cam" app to receive notifications.

1. Open the app and tap "Add Device".
2. Select "Battery Camera".
3. Long-press the power button for 5 seconds until a "ding" sound is heard, indicating the camera is powered on. The red light will flash slowly.
4. After 5-10 seconds, long-press the reset button for 5 seconds until a "beep" sound is heard, indicating the camera has been reset. The red light will flash slowly.
5. Enter your 2.4GHz Wi-Fi network password. (Note: 5GHz Wi-Fi is not supported).
6. Scan the QR code displayed on your phone with the camera.
7. Once connected, the blue light will illuminate. Wait for the page to load.

Figure 4: App interface showing the camera pairing process.

## 4. Operating the Camera

### 4.1 Video Quality and Night Vision

The camera features an 8MP CMOS sensor, delivering 4K (3840x2144) high-definition video. Equipped with 4 infrared LEDs and 4 white LEDs, it provides up to 15 meters of night vision. This ensures clear surveillance even in dark conditions, allowing for identification of details like clothing and vehicle license plates.

**フルHD&夜間カラー撮影**
多個のライトを搭載しており、夜間でもカラー撮影が可能。

他社: 4つのライト

弊社: 4つのLED+4つの赤外線ランプ

Figure 5: Night vision clarity comparison (5MP vs 8MP).

## 4.2 Power Management

The camera includes a 10000mAh high-capacity battery for extended operation. The accompanying 3W solar panel continuously recharges the battery using sunlight, providing 24/7 surveillance without electricity costs. This design eliminates the need for power wiring, enabling permanent, energy-efficient operation.
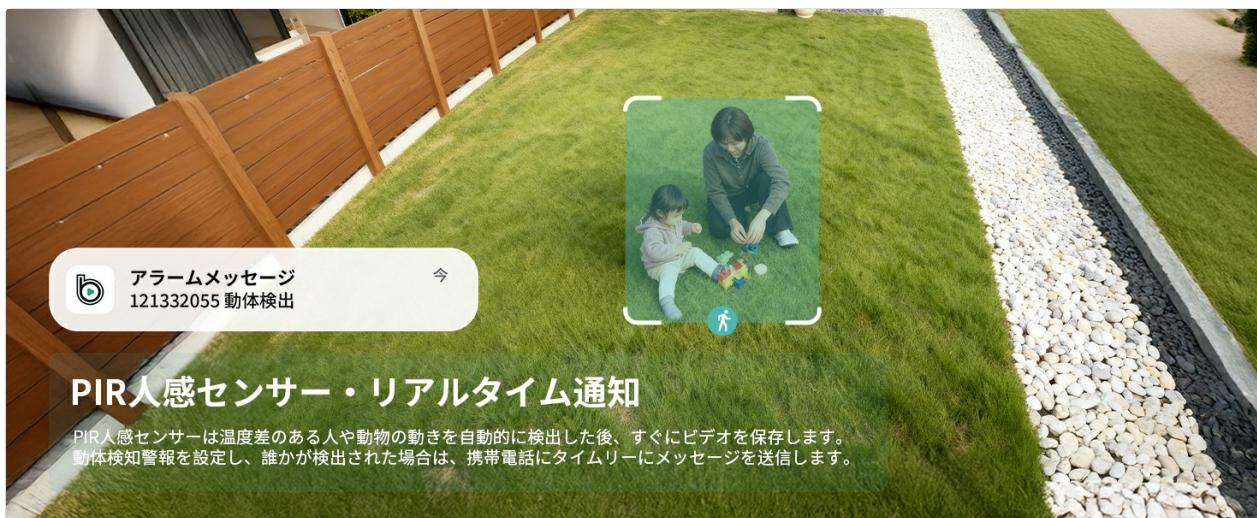


アラームメッセージ
121332055 動体検出
今

**PIR人感センサー・リアルタイム通知**
PIR人感センサーは温度差のある人や動物の動きを自動的に検出した後、すぐにビデオを保存します。
動体検知警報を設定し、誰かが検出された場合は、携帯電話にタイムリーにメッセージを送信します。

Figure 6: Power supply options for the camera.

## 4.3 Connectivity and Motion Detection

The camera supports 2.4GHz Wi-Fi and is compatible with Wi-Fi 6, enhancing transmission stability and signal penetration through walls. Its PIR human sensor accurately detects human movement, significantly reducing false alarms caused by swaying trees or insects. Upon detecting anomalies, it sends instant alert notifications to your smartphone and activates a loud alarm and powerful flashlights to deter intruders.
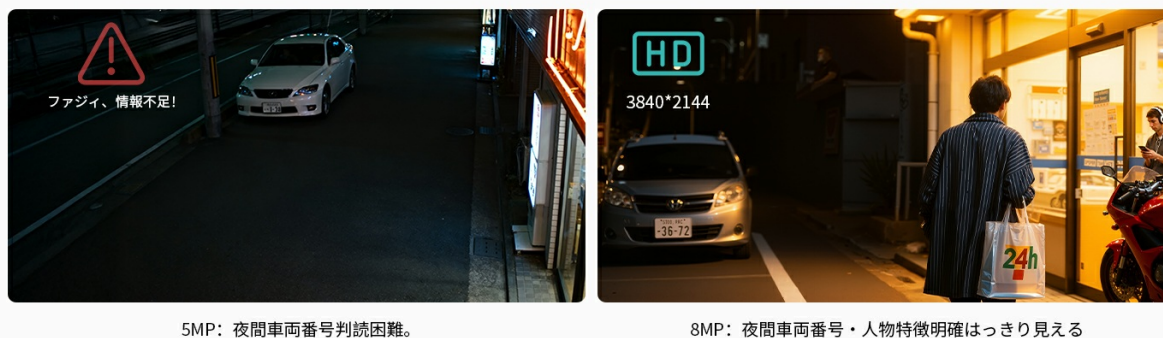
Figure 7: Real-time alerts and PIR detection in action.

## 4.4 PTZ and Two-Way Audio

With PTZ functionality, the camera's lens can rotate 360 degrees horizontally and 120 degrees vertically, eliminating blind spots. It supports two-way audio communication, allowing you to interact with family members in real-time. You can also create family accounts to allow multiple users to view footage simultaneously. Remote control via smartphone enables adjustment of camera direction and recording initiation.

Figure 8: PTZ functionality and remote control via smartphone.

## 4.5 Storage and Multi-User Access

The camera supports up to a 128GB MicroSD card for ample video storage. It also offers cloud storage options. Family sharing features allow multiple users to access the camera feed simultaneously, ensuring everyone can monitor the property.

**16倍デジタルズーム**

画像を拡大して細部まで鮮明に確認する必要がある場合、
デジタルズーム機能は 16 倍の拡大をサポートし、より鮮明に、
より安心して確認できます。

注意: iOS デバイスは最大 16 倍のデジタルズームをサポートしますが、
Android デバイスは最大 6 倍のデジタルズームをサポートします。

Figure 9: Multi-device management and simultaneous viewing.

## 5. MAINTENANCE

### 5.1 Weather Resistance

The BOIFUN R3 Pro camera boasts an IP65 waterproof rating, providing robust protection against rain, dust, and extreme temperatures (-10°C to 50°C). This ensures reliable long-term operation in diverse outdoor environments.

Figure 10: IP65 waterproof feature of the camera.

## 6. TROUBLESHOOTING

If you encounter any issues with your BOIFUN R3 Pro camera, please refer to the following common solutions:

- **Connectivity Issues:** Ensure your Wi-Fi network is 2.4GHz and the signal strength is adequate. Try resetting the camera and re-pairing it with the app.
- **False Alarms:** Adjust the PIR human detection sensitivity settings in the app to reduce triggers from non-human movements.
- **Charging Problems:** Verify that the solar panel is positioned to receive maximum sunlight. Check the charging cable connection for proper insertion and seal.

- **Image Quality:** Ensure the camera lens is clean and free from obstructions. Check your network speed for smooth streaming.



Figure 11: Visual representation of common issues and how the product addresses them.

## 7. SPECIFICATIONS

| Feature | Detail |
|---|---|
| Video Capture Resolution | 4K |
| Color | Black |
| Number of Items | 1 |
| Wireless Communication Technology | Wi-Fi |
| Night Vision Range | 15 meters |
| Product Dimensions (LxWxH) | 16 x 14 x 10.5 cm |
| Water Resistance Level | Waterproof (IP65) |
| Product Model Number | R3 Pro |
| Product Weight | 1 Kilogram |
| Battery Type | Lithium Ion |
| Power Source | Solar/Battery Powered |
| Connectivity Protocol | 2.4G Wi-Fi Compatible |
| Controller Type | Boifun Cam, Cloud Edge |
| Mounting Type | Wall Mount |

## 8. WARRANTY AND SUPPORT

BOIFUN security cameras comply with Electrical Appliance and Material Safety Law (PSE) and Radio Law (TELEC) technical standards, ensuring safe use. We offer a 2-year warranty from the date of purchase.

If you have any questions or requests, please feel free to contact us. In case of initial defects, we may offer a replacement product. Our customer service is available Monday to Friday, 9:00 AM to 6:00 PM.



Figure 12: BOIFUN's comprehensive support and 2-year warranty.

## Related Documents - R3 Pro

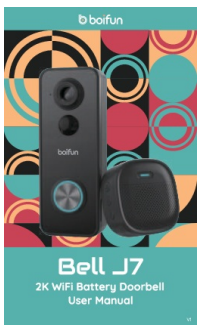| | |
|---|---|
|  | **Boifun Outdoor Security Camera User Manual**<br>A comprehensive user manual for the Boifun Outdoor Security Camera, covering product introduction, APP installation, camera setup, function descriptions, troubleshooting, and battery management. |
|  | **Boifun Outdoor Security Camera User Manual - Setup and Operation Guide**<br>Comprehensive user manual for the Boifun Outdoor Security Camera, covering setup, Wi-Fi connection, app usage, motion detection, battery management, and troubleshooting. Learn how to install and operate your Boifun camera for home security. |
|  | **Manual de Usuario Cámara de Seguridad Boifun DQ201 PTZ a Batería**<br>Manual completo para la cámara de seguridad Boifun DQ201 PTZ a batería, cubriendo instalación, configuración, funciones, solución de problemas y FAQs. Aprenda a configurar y usar su cámara Boifun para una vigilancia eficaz. |

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|---|---|
|  | [Boifun VB805 Video Baby Monitor Product Manual - Setup, Operation, and Specifications](#)<br>This product manual provides detailed instructions for setting up, operating, and troubleshooting the Boifun VB805 Video Baby Monitor. It covers camera and monitor descriptions, specifications, connection, pairing, and frequently asked questions. |
| | [BOIFUN PTZ Battery-powered Security Camera User Manual](#)<br>Comprehensive user manual for the BOIFUN PTZ Battery-powered Security Camera. Learn about product features, installation, Wi-Fi setup, CloudEdge app usage, motion detection, audio/strobe alerts, and battery management. |
|  | [Boifun Bell J7 2K WiFi Battery Doorbell User Manual](#)<br>User manual for the Boifun Bell J7 2K WiFi Battery Doorbell, providing setup, installation, and usage instructions. |