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› BOAVISION Outdoor Security Camera S20-WIFI User Manual

## BOAVISION S20-WIFI

# BOAVISION Outdoor Security Camera User Manual

Model: S20-WIFI

Brand: BOAVISION

## INTRODUCTION

The BOAVISION S20-WIFI Outdoor Security Camera is a wireless, solar-powered surveillance solution designed for outdoor use. It features a 14400mAh rechargeable battery, Pan-Tilt-Zoom (PTZ) capabilities, color night vision, two-way audio, and PIR motion detection. With an IP66 waterproof rating, it is built to withstand various outdoor weather conditions, providing reliable security monitoring for your property.



Figure 1: BOAVISION S20-WIFI Outdoor Security Camera with integrated solar panel and a smartphone displaying its live feed.

## SETUP

### Package Contents

Before beginning installation, verify that all components are present in the package. The standard package includes the camera unit with integrated solar panel, mounting accessories, and a user manual.

# Wireless solar camera

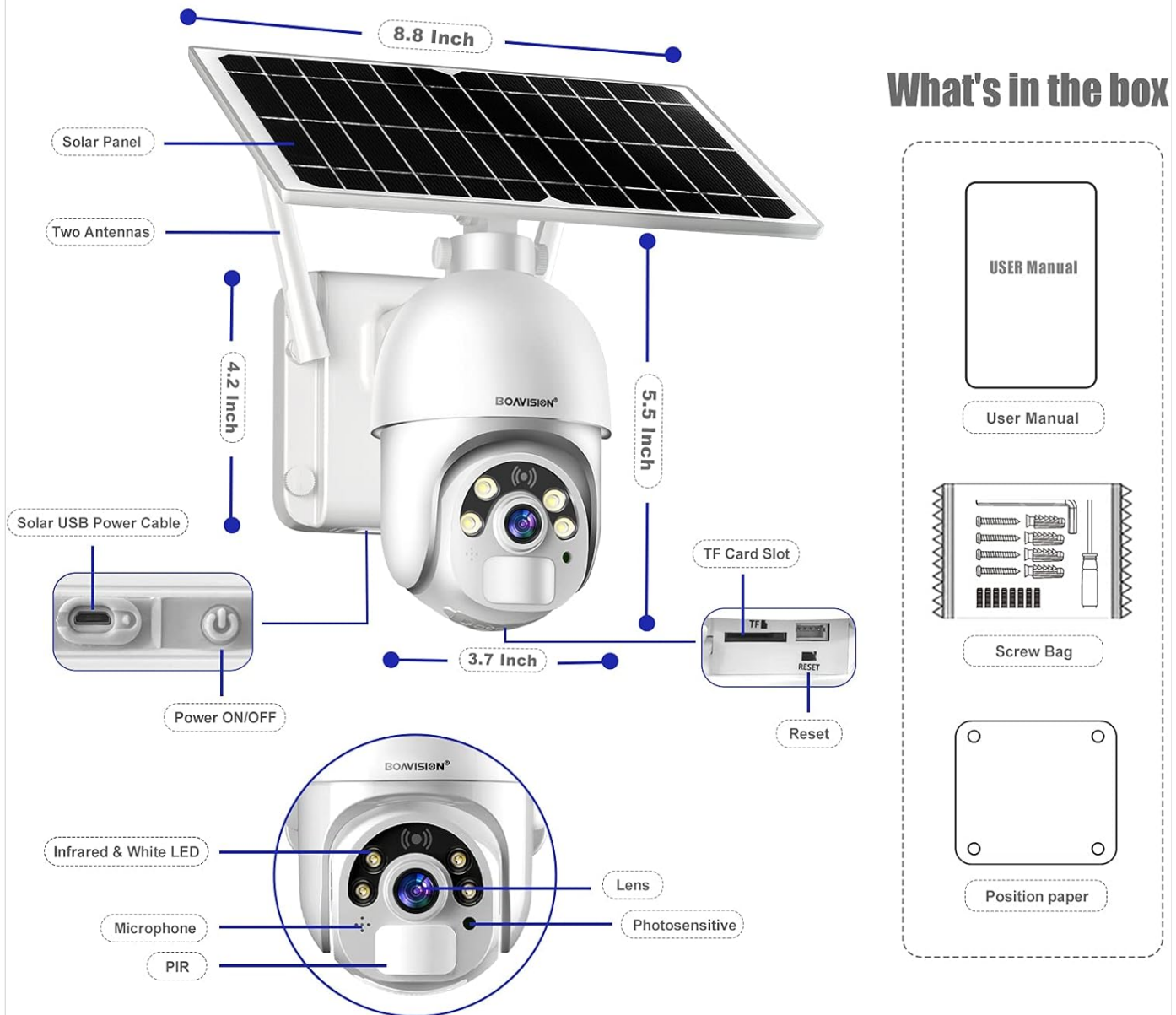


Figure 2: Detailed diagram of the camera components and included accessories such as the solar panel, antennas, USB power cable, TF card slot, and screw bag.

- BOAVISION S20-WIFI Camera with Solar Panel
- Solar USB Power Cable
- Mounting Screws and Anchors
- Positioning Paper
- User Manual

## Powering the Camera

The camera is equipped with a 14400mAh rechargeable battery and an 8W external solar panel. For initial setup, ensure the battery is sufficiently charged. The solar panel continuously recharges the battery, providing ultra-long standby time of up to 180 days without direct sunlight, depending on usage.

## SOLAR PANEL POWERED & POWERFUL BATTERY



Figure 3: The camera's solar panel and powerful 14400mAh rechargeable battery, designed for extended outdoor operation.

1. Connect the solar panel to the camera using the provided solar USB power cable.
2. Ensure the camera's power switch is in the ON position.
3. For first-time use or after prolonged storage, it is recommended to fully charge the camera using a standard 5V USB charger before relying solely on solar power.

### Mounting the Camera

Select a mounting location that provides an optimal view of the area you wish to monitor and receives adequate sunlight for the solar panel. The camera is designed for wall mounting.

1. Choose a sturdy surface for mounting.
2. Use the positioning paper to mark drill holes.
3. Drill holes and insert wall anchors if necessary.
4. Secure the camera's mounting bracket to the wall using the provided screws.
5. Attach the camera unit to the mounting bracket, ensuring it is firmly in place.

6. Adjust the angle of the solar panel to maximize sun exposure throughout the day.

## App Installation and Initial Pairing

The camera operates via a mobile application available for both iOS and Android devices. Search for the recommended app (e.g., "UBOX" as per some user feedback, though the manual should specify the official app name) on the App Store or Google Play.

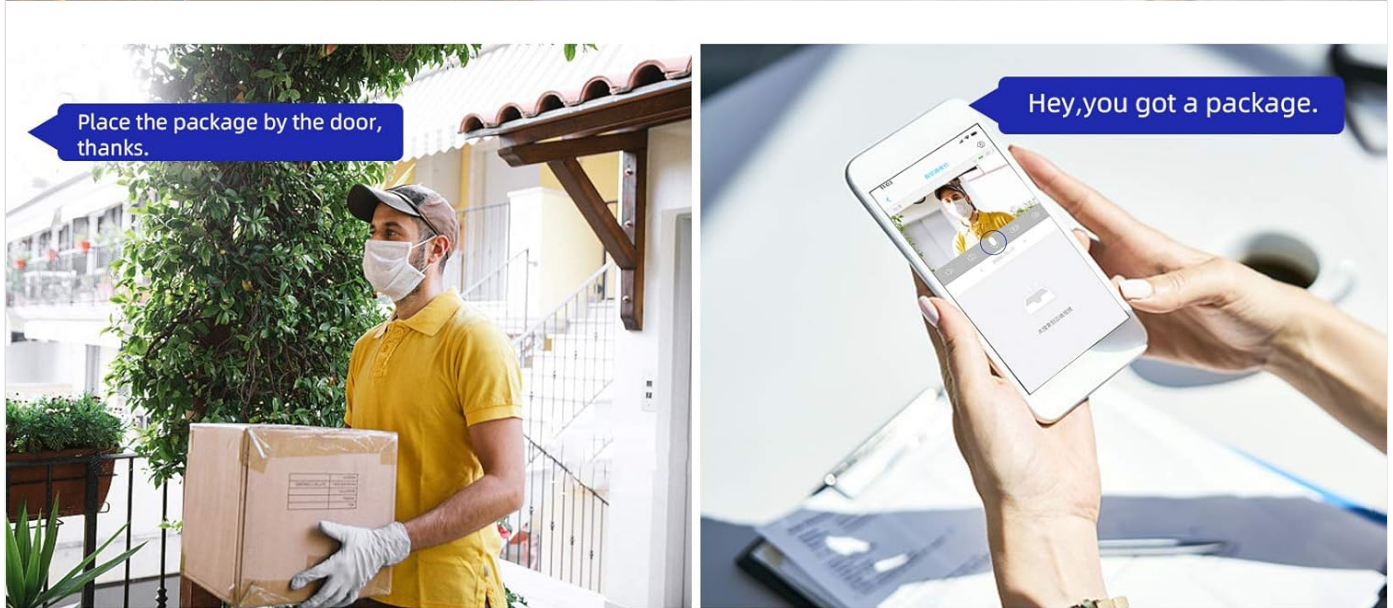


Figure 4: The mobile application interface for live viewing and two-way audio communication.

1. Download and install the official BOAVISION camera application from your device's app store.
2. Register a new account or log in if you already have one.
3. Follow the in-app instructions to add your new camera. This typically involves scanning a QR code on the camera or connecting to its Wi-Fi hotspot.
4. Ensure your smartphone is connected to a 2.4GHz Wi-Fi network during the pairing process, as the camera supports Wi-Fi connectivity.

## OPERATING INSTRUCTIONS

## Live Viewing and Playback

Once connected, you can access the live video feed from your camera anytime, anywhere via the mobile application. The camera supports video recording to a micro SD card (up to 128GB) or an optional cloud storage service.

- Open the app and select your camera from the device list to view the live feed.
- Use the playback function within the app to review recorded footage stored on the SD card or cloud.

## Pan and Tilt Rotation

The camera features Pan-Tilt (PT) functionality, allowing you to remotely adjust its viewing angle for comprehensive coverage.



Figure 5: The camera offers 320-degree horizontal pan and 90-degree vertical tilt rotation, controllable via the app.

- Within the live view interface of the app, use the directional controls to pan the camera horizontally up to 320 degrees and tilt it vertically up to 90 degrees.

## Two-Way Audio

Communicate with visitors or deter intruders using the camera's built-in microphone and speaker.

- Tap the microphone icon in the app's live view to speak through the camera.
- The camera's speaker will transmit your voice, and its microphone will capture audio from the camera's vicinity.

## PIR Smart Detection

The camera utilizes a highly sensitive Passive Infrared (PIR) motion sensor to detect human and animal movement, reducing false alarms from environmental factors. It has a 120-degree detection angle.

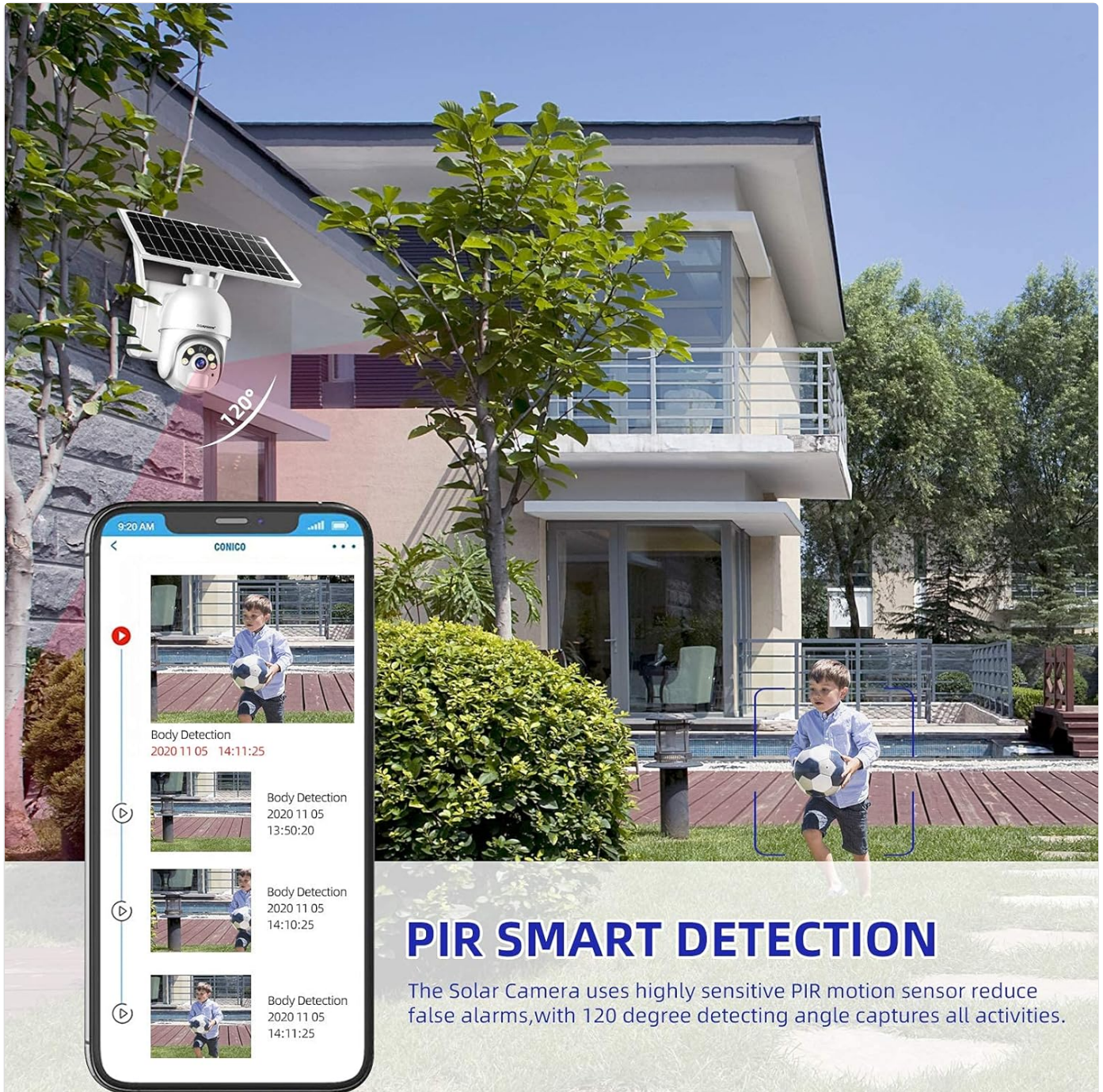


Figure 6: The camera's PIR sensor detects motion, triggering alerts and recording events to your phone app.

- Configure motion detection sensitivity and alert settings within the app.
- Upon detection, the camera will send push notifications to your smartphone and begin recording.

## Day and Night Color Vision

The camera provides clear 1080P HD footage during the day and offers advanced night vision capabilities, including color night vision and infrared (IR) night vision up to 100 feet.



## FLOODLIGHT COLOR NIGHT VISION



Figure 7: The camera's ability to provide clear color vision even in low-light conditions using its motion-activated spotlight.

- The camera automatically switches between day and night modes based on ambient light.
- Dual LEDs enable motion-activated spotlight color night vision, providing full-color video even in darkness.
- Infrared LEDs provide traditional black-and-white night vision for discreet monitoring.

## MAINTENANCE

### Battery and Solar Panel Care

To ensure optimal performance and battery longevity, regularly check the solar panel for any obstructions or dirt that might reduce its charging efficiency.

# 180DAYS WITHOUT SUNLIGHT

Can work 180days without sunlight, no worry about weather, No worries to take it down to recharge. With IP65 weatherproof level, it can work with outdoor harsh weather.



Figure 8: The camera's IP66 weatherproof design ensures reliable operation in various outdoor conditions, including rain and snow.

- Wipe the solar panel surface with a soft, damp cloth to remove dust, leaves, or other debris.
- Ensure the solar panel is positioned to receive maximum direct sunlight throughout the day.
- While the camera has a 14400mAh battery for extended standby, consistent solar charging is crucial for continuous operation without manual recharging.

## Cleaning the Camera Lens and Housing

Periodically clean the camera lens and housing to maintain clear image quality and ensure proper functioning of sensors.

- Use a soft, lint-free cloth to gently wipe the camera lens. For stubborn dirt, a lens cleaning solution designed for optics can be used sparingly.
- Clean the camera housing with a damp cloth. Avoid abrasive cleaners or solvents that could damage the finish or seals.

## Weather Resistance

The camera is rated IP66 waterproof, meaning it is protected against dust ingress and powerful water jets. While designed

for outdoor use, extreme weather conditions may still impact performance or require additional protective measures.

- Ensure all cable connections are securely sealed to maintain the IP66 rating.
- Avoid submerging the camera in water.

## TROUBLESHOOTING

### Camera Offline / No Connection

- **Check Wi-Fi Signal:** Ensure the camera is within range of your 2.4GHz Wi-Fi router and the signal strength is adequate. Obstacles like thick walls can weaken the signal.
- **Router Status:** Verify your Wi-Fi router is functioning correctly and has internet access.
- **Reboot Camera:** Turn the camera off and then on again using the power switch.
- **Re-pair Camera:** If the issue persists, try re-pairing the camera with the app following the initial setup instructions.

### Poor Image Quality / Blurry Video

- **Clean Lens:** Gently clean the camera lens with a soft, lint-free cloth.
- **Network Bandwidth:** Ensure your internet connection has sufficient upload bandwidth for smooth video streaming.
- **Lighting Conditions:** Verify there are no strong light sources directly facing the camera at night that could cause glare.

### Motion Detection Not Working / Too Many False Alarms

- **Adjust Sensitivity:** In the app settings, adjust the PIR motion detection sensitivity. Lower sensitivity for fewer false alarms, higher for more precise detection.
- **Detection Zone:** Ensure the camera's detection area covers the desired region.
- **Environmental Factors:** Strong winds, moving branches, or direct sunlight changes can sometimes trigger false alarms. Adjust camera placement if possible.

### Battery Not Charging / Low Battery

- **Solar Panel Exposure:** Ensure the solar panel receives at least 4-6 hours of direct sunlight daily. Clear any obstructions.
- **Cable Connection:** Check that the solar panel cable is securely connected to the camera.
- **Manual Charge:** If the battery is critically low, bring the camera indoors and charge it fully using a standard 5V USB charger.

## SPECIFICATIONS

Feature	Detail
Model Number	S20-WIFI
Power Source	Solar Powered, 14400mAh Rechargeable Battery
Solar Panel Wattage	8 watts
Connectivity	Wi-Fi (2.4GHz)
Video Capture Resolution	1080p HD
Pan/Tilt Range	320° Horizontal, 90° Vertical

Feature	Detail
Night Vision Range	Up to 100 feet (Color Night Vision & IR)
Motion Detection	PIR Sensor, 120° Detecting Angle
Audio	Two-Way Audio (Built-in Microphone & Speaker)
Storage Options	Micro SD Card (up to 128GB), Cloud Storage (optional)
Weatherproof Rating	IP66
Dimensions (L x W x H)	6.29 x 8.81 x 5.51 inches
Item Weight	3.36 pounds
Compatible Devices	Smartphone (iOS, Android)
UPC	735520282376

## WARRANTY AND SUPPORT

Specific warranty terms and conditions for the BOAVISION S20-WIFI camera are not provided within this manual. For detailed warranty information, technical support, or customer service inquiries, please refer to the official BOAVISION website or contact their customer support directly.

You may find additional resources and frequently asked questions on the manufacturer's support pages.

- **Manufacturer:** BOAVISION
- **Official Website:** [Visit the BOAVISION Store on Amazon](#) (for general brand information)