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› WITSECTECH 4G LTE Cellular Solar Security Camera Outdoor Wireless (4G-S16) User Manual

WITSECTECH 4G-S16

WITSECTECH 4G LTE Cellular Solar Security Camera User Manual

Model: 4G-S16

1. INTRODUCTION

This manual provides detailed instructions for the installation, operation, and maintenance of your WITSECTECH 4G LTE Cellular Solar Security Camera (Model 4G-S16). This camera is designed for outdoor surveillance in locations without Wi-Fi access, utilizing 4G LTE cellular networks and solar power for continuous operation. It features 2K resolution, Pan-Tilt-Zoom (PTZ) capabilities, PIR motion detection, and two-way audio communication.

2. PACKAGE CONTENTS

Please verify that all items listed below are included in your package. If any items are missing or damaged, please contact customer support.

What's in the Box



Image: All components included in the product package, such as the camera, solar panel, mounting bracket, cables, and user manual.

- WITSECTECH 4G LTE Cellular Solar Security Camera (4G-S16)
- Solar Panel with Mounting Arm
- Wall Mounting Bracket
- USB Charging Cable
- Screws and Wall Anchors
- Screwdriver
- 32GB Micro SD Card
- Nano SIM Card (prepaid 300MB for initial testing)
- User Manual

3. PRODUCT OVERVIEW

The WITSECTECH 4G-S16 camera is a robust outdoor surveillance solution. It integrates a high-resolution camera with a

solar panel for self-sufficient power and 4G LTE connectivity for remote access without Wi-Fi.



Image: The WITSECTECH 4G LTE Cellular Solar Security Camera, showing the main camera unit, dual antennas, and the attached solar panel.

Key Features:

- **4G LTE Cellular Connectivity:** Operates on Verizon, AT&T, and T-Mobile networks, ideal for remote locations.
- **Solar Powered:** Equipped with a 5W solar panel and 10400mAh rechargeable battery for continuous power.
- **2K Super HD & PTZ View:** Offers 2K video resolution with 355° horizontal pan and 90° vertical tilt, controllable via the UBox app.
- **PIR Motion Detection:** Advanced PIR sensor and AI algorithms for accurate human/animal detection, reducing false alarms.
- **Two-Way Audio:** Built-in microphone and speaker for real-time communication.
- **Color Night Vision:** Enhanced night vision with integrated spotlights for clear, full-color images in low light.
- **IP66 Weatherproof:** Designed to withstand various outdoor weather conditions.

- **Local & Cloud Storage:** Supports Micro SD card (up to 128GB, 32GB included) and offers a 30-day free trial for cloud storage.

4. SETUP

4.1 SIM Card and SD Card Installation

Before powering on the camera, install the Nano SIM card and Micro SD card.

1. Locate the SIM/SD card slot on the camera body, usually protected by a rubber cover.
2. Carefully open the cover.
3. Insert the Nano SIM card into the SIM card slot with the gold contacts facing down and the notched corner aligned correctly. Ensure it clicks into place.
4. Insert the 32GB Micro SD card (included) into the SD card slot with the gold contacts facing down. Push until it clicks.
5. Close the rubber cover firmly to ensure waterproof sealing.

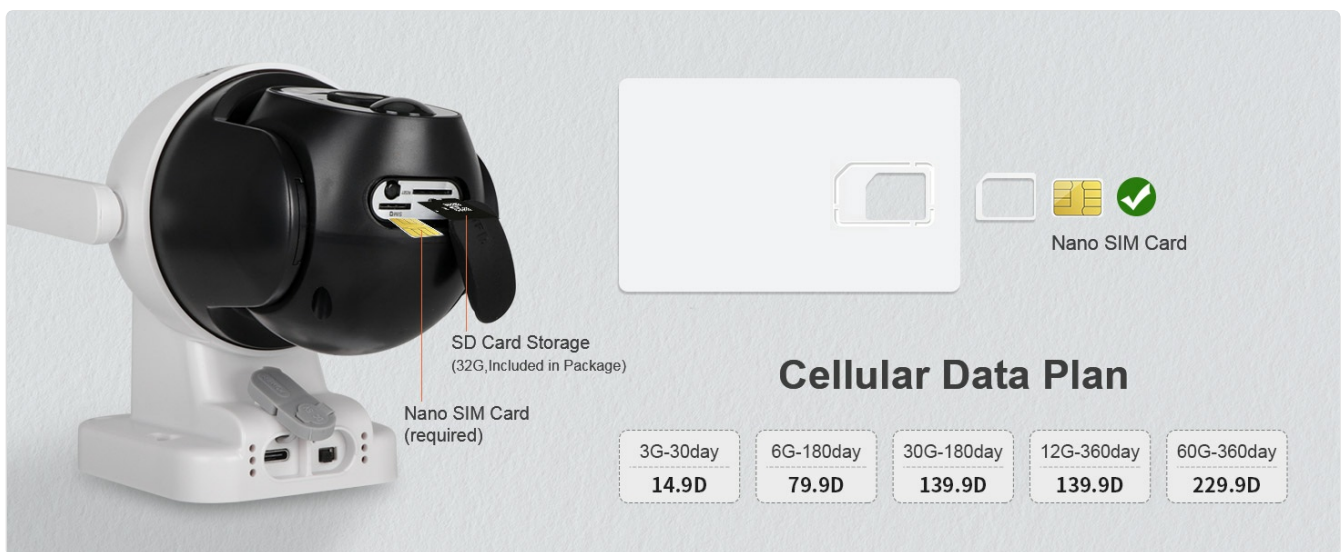


Image: Close-up view of the camera's SIM card slot, illustrating the correct orientation for inserting a Nano SIM card. The image also shows logos for Verizon, T-Mobile, and AT&T, indicating network compatibility.

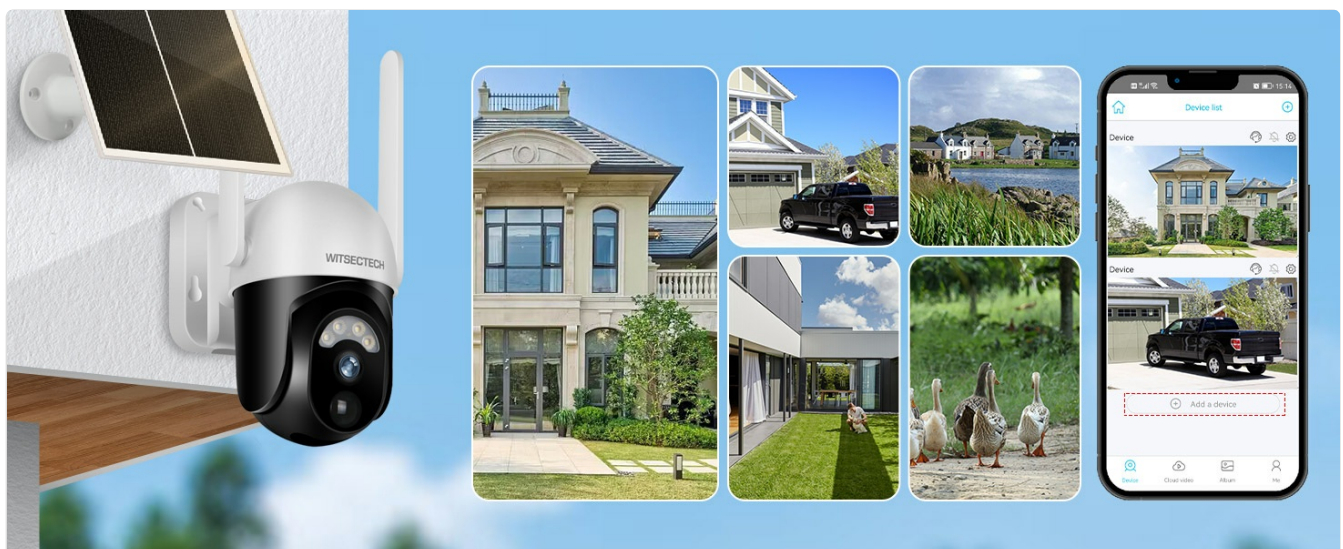


Image: Close-up view of the camera's SD card slot, illustrating the correct orientation for inserting a Micro SD card. Icons for Cloud Storage and Local Storage are also displayed.

4.2 App Installation and Account Setup

The camera operates via the UBox mobile application.

1. Download the "UBox" app from the App Store (iOS) or Google Play Store (Android).
2. Open the UBox app and register a new account using your email address. Follow the on-screen prompts to complete the registration and set a password.
3. Log in to your newly created account.

4.3 Adding the Camera to the App

1. Ensure your camera is powered on.
2. In the UBox app, tap the "Add Device" or "+" icon.
3. Select the option for adding a 4G camera.
4. Scan the QR code located on the camera body or packaging.
5. Follow the app's instructions to complete the pairing process. The camera will typically emit a sound to confirm successful connection.

4.4 Mounting the Camera

Choose a suitable outdoor location for mounting, ensuring the solar panel receives maximum direct sunlight throughout the day.

1. **Select Location:** Identify a mounting spot that provides the desired surveillance coverage and optimal sunlight exposure for the solar panel.
2. **Mark Drill Holes:** Use the mounting bracket as a template to mark the positions for drilling on the wall or surface.
3. **Drill Holes:** Drill pilot holes at the marked positions. Insert wall anchors if mounting on masonry or drywall.
4. **Attach Bracket:** Secure the mounting bracket to the surface using the provided screws.
5. **Mount Camera:** Attach the camera unit to the mounting bracket. Adjust the angle of the camera and solar panel for optimal positioning.
6. **Connect Solar Panel:** Ensure the solar panel cable is securely connected to the camera's charging port.



Image: The WITSECTECH 4G LTE Cellular Solar Security Camera mounted on an outdoor wall, with the solar panel positioned above it to capture sunlight. The image highlights the camera's ability to operate for 365 days.

5. OPERATING INSTRUCTIONS

5.1 Live View and PTZ Control

Access the live video feed and control the camera's movement through the UBox app.

1. Open the UBox app and select your camera from the device list.
2. The live video stream will appear.
3. Use the on-screen joystick or directional arrows to pan (355° horizontally) and tilt (90° vertically) the camera.
4. Pinch to zoom in or out for 4X digital zoom.

Instant Alert & Notification Push

Ward off the unwelcome & record video clip in no time.

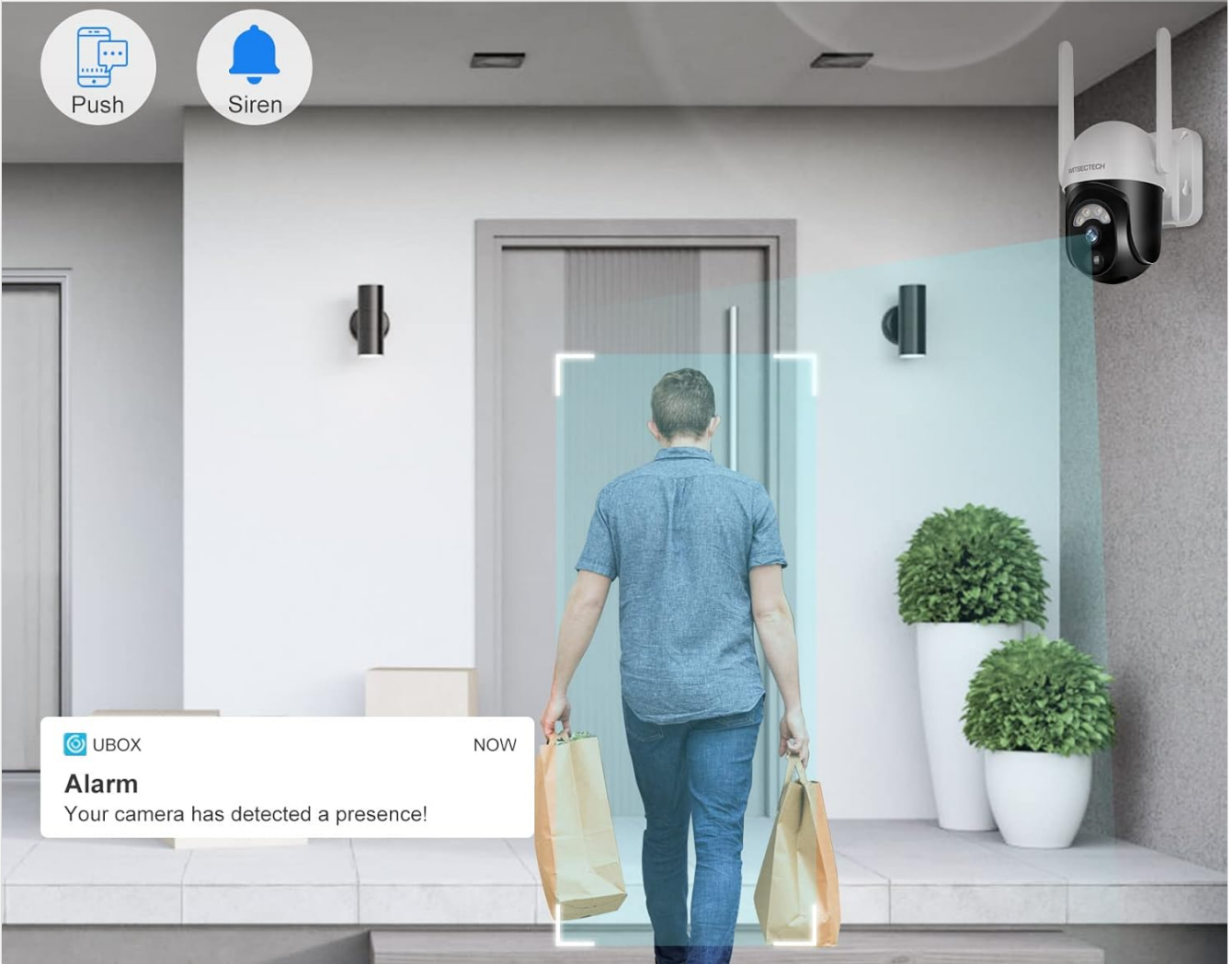


Image: A hand holding a smartphone displaying the UBox app interface, with on-screen controls for panning and tilting the camera. The image also shows the camera's 355° pan and 90° tilt capabilities.

5.2 Two-Way Audio

Communicate with individuals near the camera using the two-way audio feature.

1. While in live view, tap the microphone icon in the UBox app.
2. Speak into your smartphone's microphone. Your voice will be transmitted through the camera's speaker.
3. To listen, ensure the speaker icon in the app is enabled.

Flexible Remote Access & Two-Way Audio

Listen and Talk to Visitors in Real Time



Image: A person interacting with a courier at their door using the two-way audio feature of the security camera via their smartphone, demonstrating remote communication.

5.3 Motion Detection and Alerts

The camera uses PIR (Passive Infrared) detection to identify movement and send alerts.

1. In the UBox app settings, navigate to "PIR Detection" or "Motion Detection" settings.
2. Adjust sensitivity levels as needed to minimize false alarms.
3. Enable push notifications to receive instant alerts on your smartphone when motion is detected.
4. You can also configure the camera to activate its LED spotlight or siren upon detection for deterrence.

3MP Ultra HD Resolution Day and Night

Color night vision enabled by 4 powerful spotlights



Image: A smartphone displaying an "Alarm" notification from the UBox app, indicating that the camera has detected a presence. The image also shows a person walking towards a door, with the camera mounted nearby.

5.4 Recording and Storage

Recordings are stored locally on the Micro SD card or in the cloud.

- **Micro SD Card:** The camera supports up to 128GB Micro SD cards. A 32GB card is included. Recordings are automatically saved to the card upon motion detection.
- **Cloud Storage:** A 30-day free trial of cloud storage is available. After the trial, a subscription may be required to continue cloud services. Cloud storage provides off-site backup of your recordings.

5.5 Night Vision

The camera provides clear surveillance even in low-light conditions.

- The camera automatically switches to night vision mode in low light.
- Integrated spotlights enable full-color night vision, providing more detailed and identifiable images than traditional black and white infrared night vision.

Cover Every Angle of Your House

With 355° Pan & 90° Tilt, 4X Digital Zoom



Image: A split image demonstrating the camera's 3MP Ultra HD resolution, showing a clear daytime view on one side and a clear, color night vision view on the other, enabled by powerful spotlights.

6. MAINTENANCE

6.1 Solar Panel Care

To ensure optimal charging efficiency, regularly clean the solar panel.

- Wipe the surface of the solar panel with a soft, damp cloth to remove dust, dirt, leaves, or snow.
- Avoid using abrasive cleaners or harsh chemicals that could damage the panel.
- Ensure no obstructions (e.g., tree branches, buildings) block sunlight from reaching the panel.

6.2 Battery Management

The camera is equipped with a high-capacity 10400mAh battery designed for long-term operation.

- The solar panel continuously recharges the battery during daylight hours.

- In periods of extended low sunlight or high activity, the battery level may decrease. Monitor the battery status via the UBox app.
- If necessary, the camera can be charged directly using the provided USB cable and a standard 5V USB power adapter (not included).

6.3 Weather Resistance

The camera has an IP66 weatherproof rating, making it suitable for various outdoor conditions.

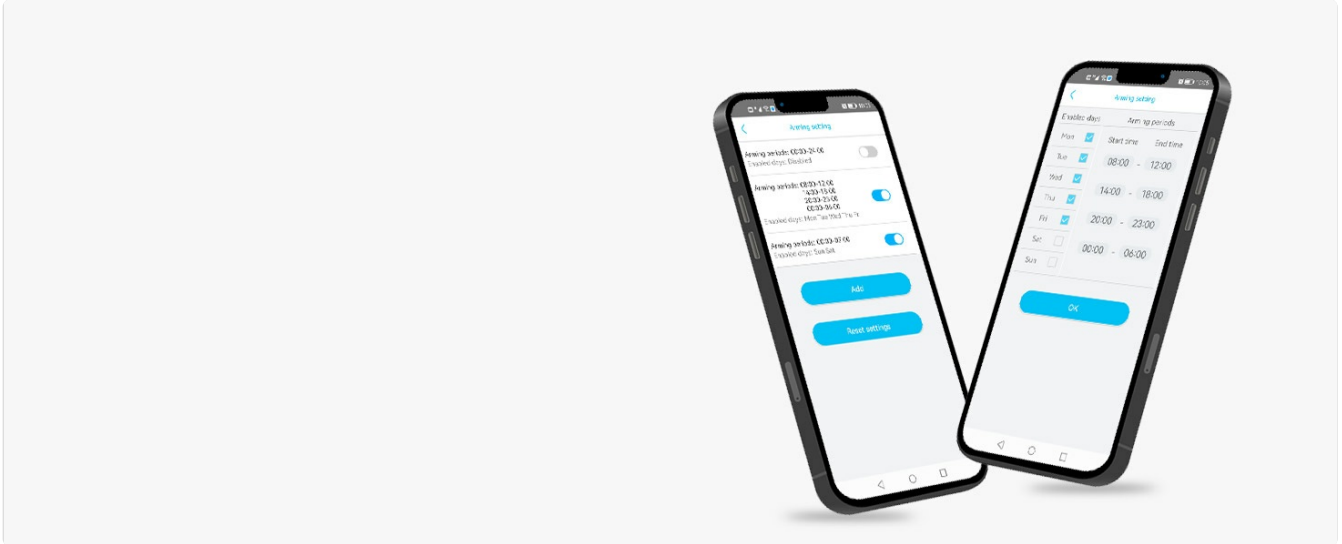


Image: The security camera and solar panel shown in both rainy and snowy conditions, illustrating its IP66 weatherproof design and ability to function in extreme temperatures (14°F to 131°F).

- While designed for outdoor use, avoid submerging the camera in water.
- Ensure all covers and seals are properly closed after accessing the SIM/SD card slots or charging port.

7. TROUBLESHOOTING

If you encounter issues with your camera, please refer to the following common problems and solutions.

- **Camera Not Connecting to 4G Network:**
 - Ensure the Nano SIM card is correctly inserted and activated with a data plan.
 - Verify that the cellular signal strength is adequate in the camera's location.
 - Restart the camera by powering it off and on.
 - Check with your cellular provider (Verizon, AT&T, T-Mobile) to confirm SIM card activation and data plan status.
- **UBox App Issues (e.g., connection drops, unresponsive controls):**
 - Ensure your smartphone has a stable internet connection.
 - Update the UBox app to the latest version.
 - Clear the app's cache or reinstall the app.
 - Restart your smartphone.
- **No Recordings or SD Card Not Working:**
 - Ensure the Micro SD card is correctly inserted.
 - Format the SD card through the UBox app settings.
 - Check if the SD card is damaged or full. Replace if necessary.
 - Verify that motion detection recording is enabled in the app settings.

- **Battery Not Charging or Low Battery Life:**

- Ensure the solar panel is clean and receiving direct sunlight for several hours daily.
- Check the connection between the solar panel and the camera.
- Reduce the frequency of live view access and motion detection events to conserve battery.
- Charge the camera directly via USB if solar charging is insufficient.

- **Poor Video Quality:**

- Ensure the camera lens is clean and free from dirt or condensation.
- Check your 4G signal strength; a weak signal can affect streaming quality.
- Adjust the video resolution settings in the UBox app if available.

For further assistance, please refer to the UBox app's help section or contact WITSECTECH customer support.

8. SPECIFICATIONS

Detailed technical specifications for the WITSECTECH 4G LTE Cellular Solar Security Camera (4G-S16).

Feature	Specification
Model Number	4G-S16
Video Capture Resolution	2K (3MP Max Webcam Image Resolution)
Connectivity Technology	4G LTE Cellular
Compatible Networks	Verizon, AT&T, T-Mobile
Power Source	Solar Panel & Built-in Battery
Battery Capacity	10400 mAh Lithium Ion
Solar Panel Wattage	5 watts
Pan Angle	355 Degrees
Tilt Angle	90 Degrees
Digital Zoom	4X
Night Vision Range	20 Meters
Special Features	2-Way Audio, PIR Motion Detection, Color Night Vision
Storage Options	Micro SD Card (Max 128GB, 32GB included), Cloud Storage
Weatherproof Rating	IP66
Operating Temperature	14°F to 131°F (-10°C to 55°C)
Material	Acrylonitrile Butadiene Styrene (ABS)
Product Dimensions	6.7 x 5.5 x 5.2 inches

Feature	Specification
Item Weight	2.4 pounds
Control Method	UBox App

9. WARRANTY AND SUPPORT

WITSECTECH products are covered by a manufacturer's warranty. For specific warranty terms and conditions, please refer to the warranty card included in your package or visit the official WITSECTECH website.

If you require technical assistance, troubleshooting, or have questions regarding your product, please contact WITSECTECH customer support through the UBox app's help section or via the contact information provided on the official website.