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NUASI S40

NUASI 4G LTE Outdoor Wireless 2K Solar Camera S40 User Manual

Model: S40 | Brand: NUASI

1. Introduction

Thank you for choosing the NUASI 4G LTE Outdoor Wireless 2K Solar Camera. This manual provides essential information for the proper installation, operation, and maintenance of your security camera. Please read this guide thoroughly before use and retain it for future reference.

2. Product Overview and Features

The NUASI S40 is a versatile outdoor surveillance camera designed for areas without Wi-Fi access. It operates on 4G LTE cellular networks and is powered by a solar panel, ensuring continuous operation. Key features include:

- **4G LTE Connectivity:** Operates independently of Wi-Fi, ideal for remote locations.
- **2K HD Resolution:** Captures clear images and videos.
- **Solar Powered:** Equipped with a 10400mAh rechargeable battery and a 5W solar panel for sustained power.
- **360° PTZ Control:** Offers 355° horizontal rotation and 100° vertical tilt, controllable via the mobile app.
- **Color Night Vision:** Integrated spotlight and advanced image sensor provide full-color video in low-light conditions.
- **PIR Motion Detection:** Smart human recognition reduces false alarms and sends real-time alerts.
- **Two-Way Audio:** Allows for remote communication.
- **IP66 Weatherproof:** Designed to withstand various weather conditions (rain, snow, sun).



Figure 2.1: Camera highlighting 4G LTE connectivity for various outdoor applications.



Figure 2.2: Multi-scene application examples for the NUASI S40 camera.

3. Package Contents

Please check the package for the following items:

- NUASI 4G LTE Solar Camera (S40)
- Solar Panel
- Mounting Bracket and Screws
- USB Charging Cable
- User Manual (this document)
- Nano SIM Card (may be pre-installed or included separately)

4. Setup Guide

4.1 SIM Card Installation

1. Locate the SIM card slot on the camera. This is typically protected by a rubber cover to ensure waterproofing.
2. Carefully open the cover and insert the Nano SIM card into the designated slot. Ensure the SIM card is inserted correctly according to the diagram near the slot.
3. Close the rubber cover firmly to maintain the IP66 waterproof rating.

Note: The camera is compatible with most 3G/4G LTE SIM cards from providers like Vodafone, Wind Tre, Telekom, Orange, SFR, Bouygues, and O2. It is recommended to use the provided SIM card or ensure your chosen SIM card has an active data plan. If you encounter issues with your SIM card, please contact your mobile provider or NUASI support.

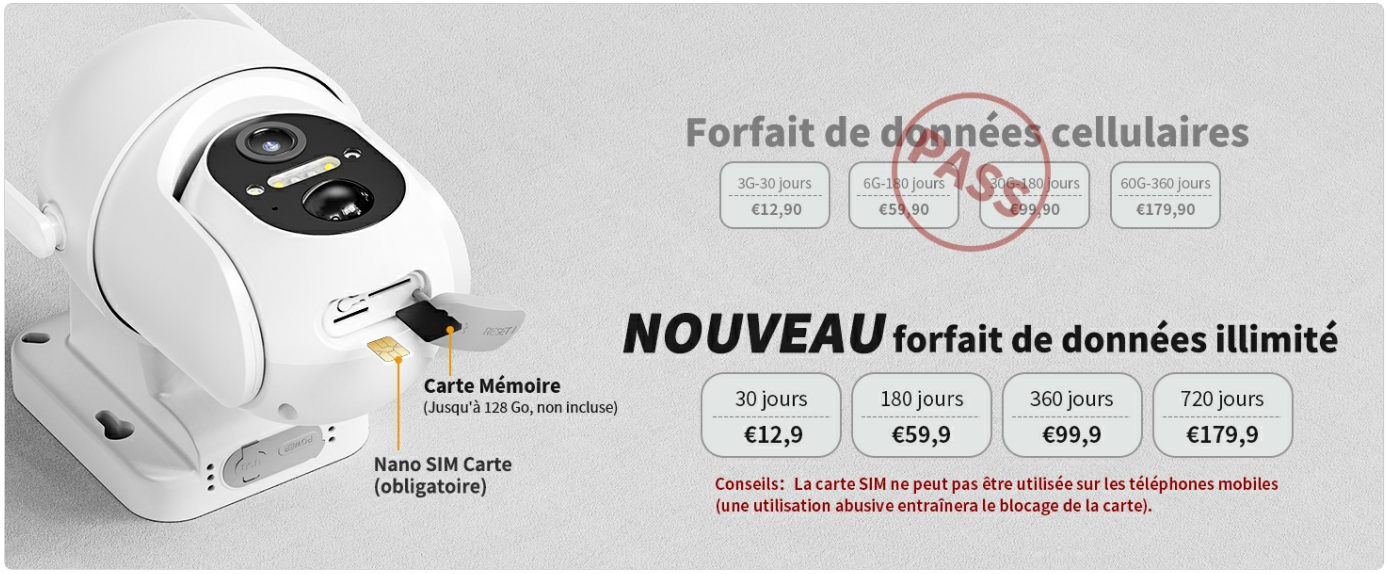


Figure 4.1: SIM card and Micro SD card installation slots.

4.2 App Installation

1. Download the **UBoxPro** app from the App Store (for iOS devices) or Google Play Store (for Android devices).
2. Install the app on your smartphone.
3. Register for an account or log in if you already have one.



Figure 4.2: UBoxPro app download options.

4.3 Camera Pairing

1. Power on the camera.
2. Open the UBoxPro app and follow the on-screen instructions to add a new device.
3. Scan the QR code located on the camera or its packaging when prompted by the app.
4. Once successfully paired, you will see the camera's live feed in the app.

4.4 Mounting the Camera

Choose a suitable location for mounting the camera, ensuring good cellular signal reception and adequate sunlight exposure for the solar panel. The camera supports wall mounting.

1. Use the provided mounting bracket and screws to securely attach the camera to a wall or other stable surface.
2. Position the solar panel to receive maximum direct sunlight throughout the day.
3. Connect the solar panel cable to the camera's charging port.



Figure 4.3: Camera and solar panel installation example.

5. Operating Instructions

5.1 Live View

Open the UBoxPro app and select your camera from the device list to access the real-time video feed. You can monitor your property from anywhere with cellular coverage.

5.2 PTZ Control and Digital Zoom

From the live view interface in the UBoxPro app, use the on-screen controls to pan the camera horizontally (355°) and tilt it vertically (100°). The camera also supports 4x digital zoom to view details more closely.



Figure 5.1: PTZ control and digital zoom functionality.



Figure 5.2: Example of zoom functionality in the app.

5.3 Recording and Playback

The camera supports local storage via a Micro SD card (up to 128GB, not included) and cloud storage (subscription may be required). Recordings are triggered by motion detection or can be initiated manually.

- **Local Storage:** Insert a Micro SD card into the designated slot (refer to Figure 4.1). The camera will automatically record events to the card.
- **Cloud Storage:** Activate cloud storage through the UBoxPro app for remote access to recorded footage.
- **Playback:** Access recorded videos via the app's playback function.

5.4 Two-Way Audio

The built-in microphone and speaker allow for two-way communication. Tap the microphone icon in the app to speak through the camera, and listen to audio from the camera's surroundings.



Figure 5.3: Two-way audio communication example.

5.5 PIR Motion Detection Settings

The camera features a Passive Infrared (PIR) motion sensor for detecting human movement. Configure detection sensitivity and alert preferences in the UBoxPro app.

- **Sensitivity:** Adjust the PIR sensitivity to minimize false alarms caused by small animals or environmental factors.

- **Alerts:** Enable real-time push notifications to your smartphone when motion is detected.
- **Human Recognition:** The camera's intelligent detection helps distinguish human shapes from other moving objects.

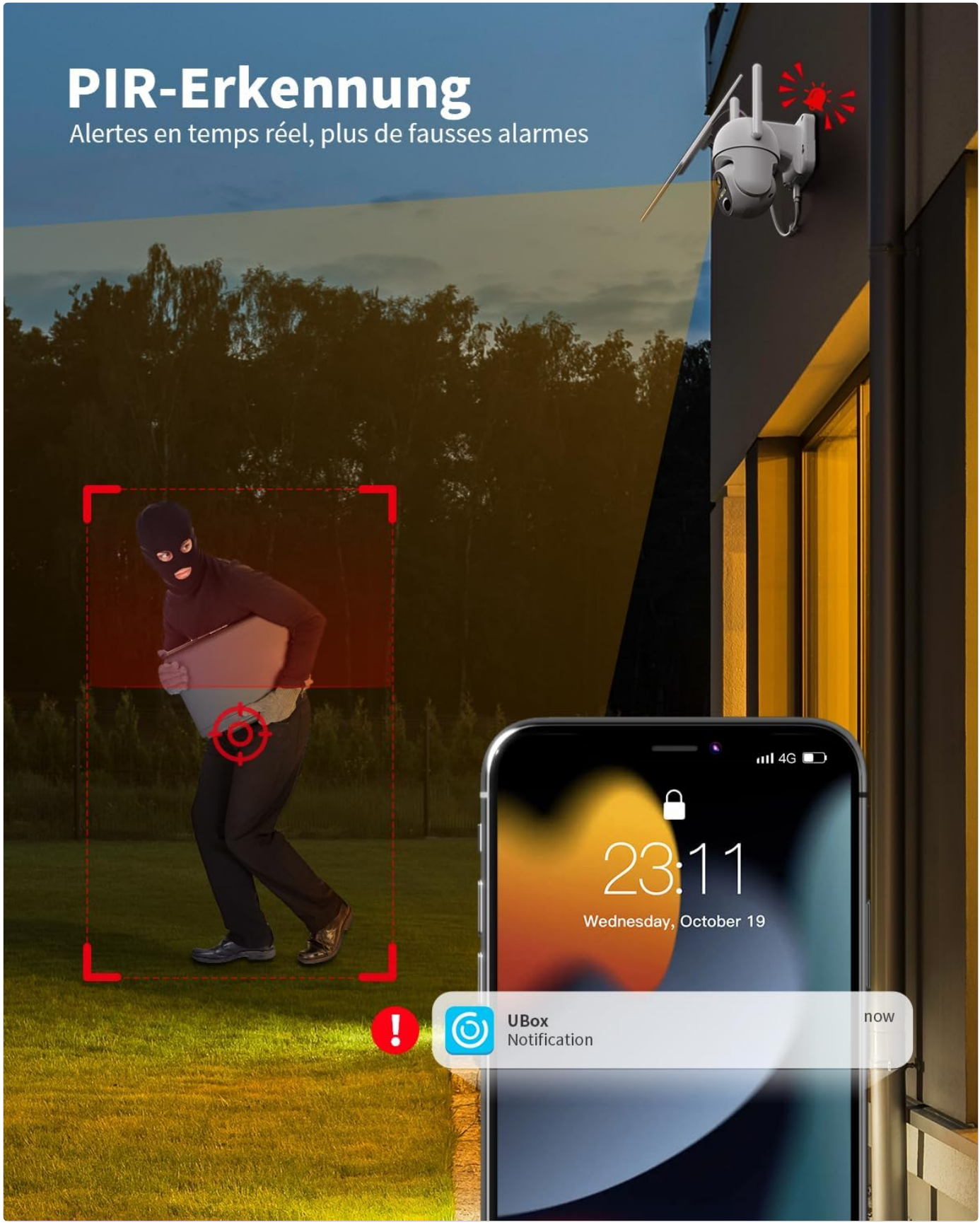


Figure 5.4: PIR motion detection and real-time alerts.



Figure 5.5: Motion detection in low-light conditions.

5.6 Night Vision

The camera provides 2K HD color night vision. When ambient light is low, the integrated spotlight activates to capture clear, full-color video footage.



Figure 5.6: 2K HD Color Night Vision in action.



Figure 5.7: Comparison of traditional infrared night vision and color night vision.

5.7 Solar Charging

The camera's 5W solar panel continuously charges the internal 10400mAh battery. Under optimal conditions (e.g., 3 hours of direct sunlight), the solar panel can provide sufficient power for a full day of operation.
Note: Charging efficiency may be reduced during winter months or on cloudy days due to lower sunlight intensity.

6. Maintenance

- **Cleaning:** Regularly wipe the camera lens and solar panel with a soft, damp cloth to ensure clear vision and efficient charging. Do not use harsh chemicals.
- **Battery Care:** While the solar panel provides continuous charging, ensure the camera receives adequate sunlight. If the camera is stored for extended periods, fully charge the battery before storage and recharge every few months to prevent deep discharge.
- **Firmware Updates:** Check the UBoxPro app periodically for available firmware updates to ensure optimal performance and security.

7. Troubleshooting

Problem	Possible Cause	Solution
Camera not connecting to 4G network.	SIM card not inserted correctly, no active data plan, or incompatible SIM card.	Ensure SIM card is properly inserted. Verify the SIM card has an active data plan. Try using the provided SIM card or contact your mobile provider for compatibility.
Poor activity detection or false alarms.	PIR sensitivity too high/low, environmental factors (e.g., moving branches).	Adjust PIR sensitivity settings in the UBoxPro app. Ensure the camera's field of view is clear of objects that might trigger false alarms.
Battery not charging sufficiently.	Insufficient direct sunlight on the solar panel, dirty solar panel.	Relocate the solar panel to an area with more direct sunlight. Clean the solar panel regularly. Note that charging efficiency is lower in winter.

Problem	Possible Cause	Solution
Cannot access camera remotely.	No 4G signal, app issues, or camera offline.	Check 4G signal strength at the camera's location. Restart the camera and the UBoxPro app. Verify your SIM card data plan is active.

8. Specifications

Feature	Detail
Model Number	S40
Connectivity Technology	Wireless (4G LTE Cellular)
Video Resolution	2K (1536p)
PTZ Angle	355° Horizontal, 100° Vertical
Digital Zoom	4x
Night Vision	Color Night Vision (with spotlight)
Power Source	Solar Powered, Battery Powered (10400mAh), Cable Electric (5V)
Solar Panel Power	5W
Storage	Micro SD Card (max 128GB), Cloud Storage
Weather Resistance	IP66
Control Method	Application (UBoxPro)
Dimensions	14.5 x 12 x 4.5 cm (approx.)

9. Data Protection and Security

NUASI cameras utilize AES algorithm for data encryption and ECDHE algorithm for high-strength key exchange encryption. This ensures secure transmission and storage of camera data.



Figure 9.1: Data protection features.

9.1 Anti-Counterfeiting

Each NUASI product includes a unique Transparency code that can be verified via a QR scan. This helps prevent counterfeiting and ensures product authenticity.



Figure 9.2: Transparency QR code for product verification.

10. Support and Contact

If you have any questions or encounter issues during the use of your NUASI camera, please contact NUASI customer support. Refer to your product packaging or the UBoxPro app for specific contact information.

Ask a question about this manual

Ask about setup, troubleshooting, compatibility, parts, safety, or missing instructions. Manuals+ will review the question and use this page's manual context to help answer it.

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Question

Example: How do I reset this device or fix this error?

Details

Model number, symptoms, what you tried, or the section of the manual you are using.

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