INQMEGA ST-699-6M-36X-10W-WIFI-923

INQMEGA 6MP Dual-Lens Solar-Powered Security Camera

Model: ST-699-6M-36X-10W-WIFI-923

1. Introduction

This manual provides instructions for the installation, operation, and maintenance of your INQMEGA 6MP Dual-Lens Solar-Powered Security Camera. This outdoor surveillance camera features a dual-lens system with 36X optical zoom, a 20,000mAh built-in battery, and a 10W solar panel for continuous power. It supports 2.4G Wi-Fi connectivity and offers color night vision, a spotlight, and PIR human detection.

Please read this manual thoroughly before using the product to ensure proper setup and functionality. Keep this manual for future reference.

Image 1.1: The INQMEGA 6MP Dual-Lens Solar-Powered Security Camera, showcasing its dual-lens design, Wi-Fi connectivity, 6MP Ultra HD resolution, and 36X zoom capability. An accompanying smartphone screen displays the camera's live view, demonstrating the dual-view functionality.

2. Product Components

Carefully unpack the box and ensure all items listed below are present and in good condition. If any items are missing or damaged, please contact customer support.

- Camera (1 unit)
- Solar Panel (1 unit)
- Battery Partner (1 unit) - *Refers to the integrated battery system.*
- Bracket (1 unit)
- Extension Cord (1 unit)
- User Manual (1 unit)
- Power Cable (1 unit)
- Screws and Wall Plugs (Set)

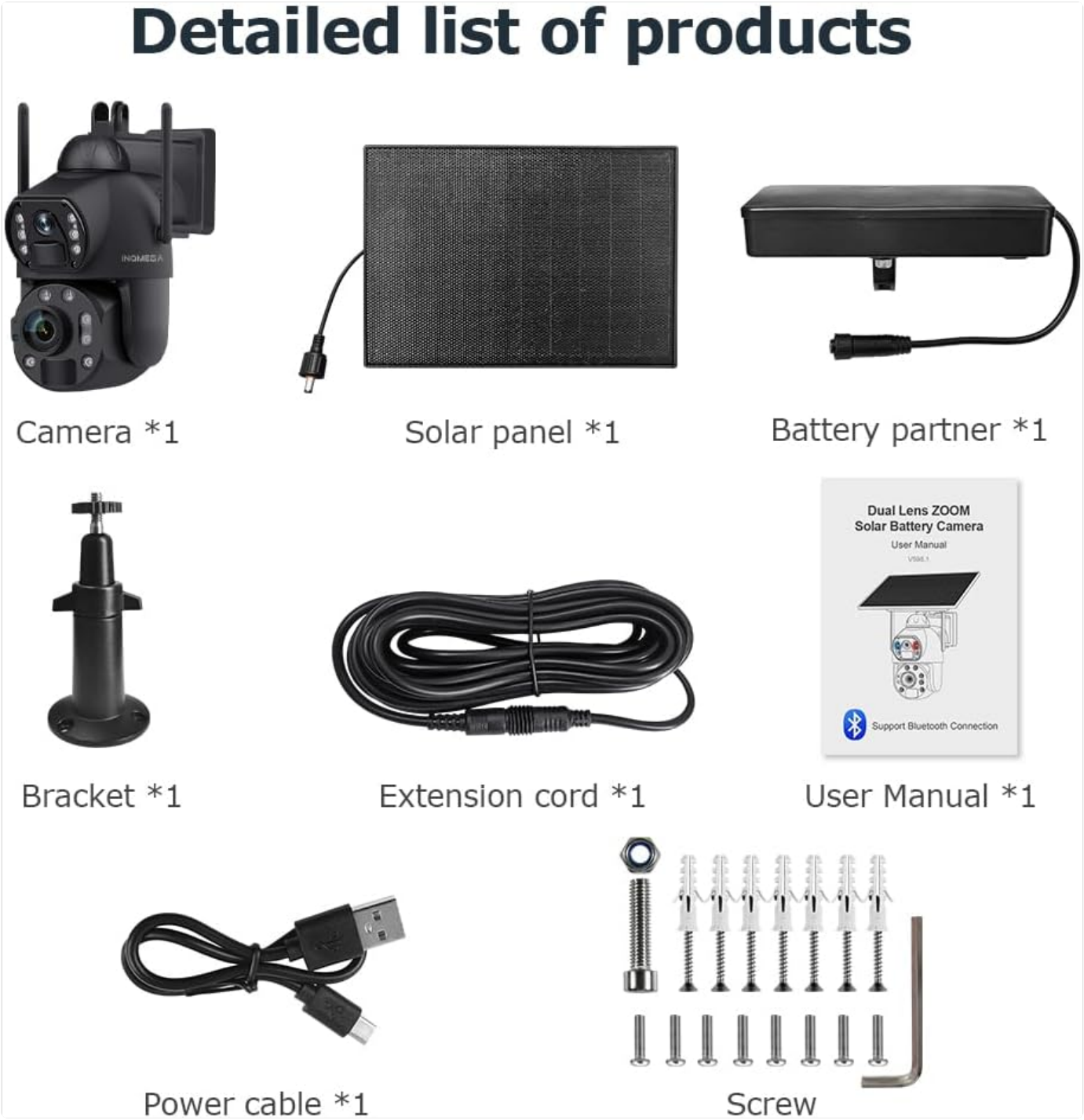

Image 2.1: An illustration of all components included in the product package, including the camera, solar panel, mounting bracket, cables, and hardware.

Camera Structure Overview

Image 2.2: A detailed diagram labeling the various parts of the camera, including the wide-angle lens, zoom lens, red-blue alarm light, white & IR LEDs, microphone, PIR sensors, laser infrared lamp, LED indicator, and antennas. Dimensions are also indicated.

Familiarize yourself with the following key components:

- **Wide-Angle Lens:** Provides a broad field of view.
- **Zoom Lens:** Offers 36X optical zoom for detailed viewing.
- **Red-Blue Alarm Light:** Activates upon detection for deterrence.
- **White & IR LEDs:** Provide illumination for color and infrared night vision.
- **Microphone:** For audio input.
- **PIR Sensors:** Passive Infrared sensors for human motion detection.
- **Laser Infrared Lamp:** Enhances night vision clarity at longer distances.
- **LED Indicator:** Displays camera status.
- **Antennas:** For Wi-Fi connectivity.
- **Solar Panel:** Charges the internal battery.

3. Setup Instructions

3.1. Charging the Battery

Before initial use, ensure the camera's built-in 20,000mAh battery is sufficiently charged. Connect the camera to the solar panel using the provided extension cord. The solar panel will charge the battery. For first-time setup or if the battery is depleted, it is recommended to charge the camera via the power cable for several hours indoors before outdoor installation.

Image 3.1: The camera connected to its solar panel, illustrating the solar charging process for continuous power.

3.2. App Installation

Download the **UBOX** application from your smartphone's app store (iOS or Android). Follow the on-screen instructions to create an account and log in.

3.3. Camera Pairing with App

1. Open the UBOX app and tap 'Add Device'.
2. Power on the camera. The LED indicator will flash, indicating it's ready for pairing.
3. Follow the in-app instructions to connect the camera to your**2.4G Wi-Fi network**. *Note: This camera does not support 5G Wi-Fi. Ensure your Wi-Fi router is within 15 meters (approximately 50 feet) of the camera for optimal signal.*
4. Scan the QR code displayed on your phone with the camera lens. You will hear a confirmation sound when pairing is successful.
5. Name your camera and complete the setup process.

3.4. Mounting the Camera

This camera is designed for outdoor wall mounting. Choose a location that provides the desired surveillance coverage and receives ample direct sunlight for the solar panel.

1. Use the provided bracket as a template to mark drilling points on the wall.
2. Drill holes and insert the wall plugs.
3. Secure the bracket to the wall using the screws.
4. Attach the camera to the bracket.
5. Adjust the angle of the solar panel to maximize sun exposure throughout the day.

4. Operating Instructions

4.1. Live View and Dual-Lens Functionality

Access the live feed through the UBOX app. The camera features a dual-lens system, allowing for two distinct views simultaneously within the app. Lens 1 (2.8mm) provides a wide-angle view, while Lens 2 (5.9+94.4mm) is the zoom lens.

4.2. 36X Optical Zoom

Utilize the 36X optical zoom feature via the UBOX app to magnify distant objects without loss of clarity. This allows for detailed observation of specific areas within the camera's field of view.

Image 4.1: Visual representation of the 36X zoom lens, showing how the camera can zoom from 1X to 36X to capture distant details like a license plate.

4.3. Pan and Tilt Control

The PTZ (Pan-Tilt-Zoom) zoom lens can be controlled remotely via the UBOX app. You can rotate the camera 355° horizontally (pan) and 90° vertically (tilt) to adjust the viewing angle as needed.

Image 4.2: Illustrates the camera's manual 350° wide-angle lens adjustment and the app-controlled 355° pan and 90° tilt capabilities of the PTZ zoom lens.

4.4. PIR Motion Detection and Alerts

The camera is equipped with PIR (Passive Infrared) detection sensors. When human movement is detected within a maximum range of 12 meters, the camera will:

- Immediately push an alarm notification to your smartphone via the UBOX app.
- Initiate video recording of the event.
- Activate the red-blue alarm lamp and spotlight for deterrence (if enabled in settings).

Note: This camera does not support automatic tracking of moving objects. It also does not support continuous recording; it only records short video clips when motion is detected.

4.5. Night Vision

The camera offers advanced night vision capabilities:

- **Infrared Night Vision:** Utilizes 10 infrared lights for clear black-and-white video in low-light conditions, with an effective

range of up to 50 meters.

- **Color Night Vision:** When the white lights are activated (either manually or upon motion detection), the camera can capture full-color video at night.
- **Laser Infrared Lamp:** Automatically switches on in IR Night Vision Mode for 10X-36X zoom, providing clearer and farther vision in darkness.

Image 4.3: A comparison demonstrating the enhanced clarity and range provided by the laser infrared lamp in night vision mode compared to ordinary infrared night vision.

4.6. Storage Options

Recorded video clips can be stored in two ways:

- **TF Card (MicroSD Card):** Supports up to 128GB (not included). Insert the card into the designated slot on the camera.
- **Cloud Storage:** The camera supports Amazon Cloud storage. Refer to the UBOX app for subscription details and activation.

5. Maintenance

5.1. Cleaning

- **Camera Lenses:** Gently wipe the camera lenses with a soft, clean, lint-free cloth. Do not use abrasive cleaners or solvents.
- **Solar Panel:** Periodically clean the surface of the solar panel to remove dust, dirt, leaves, or snow. A clean panel ensures maximum solar energy conversion and efficient battery charging.
- **Camera Body:** Wipe the metal casing with a damp cloth. The metal design provides superior heat dissipation and durability.

5.2. Battery Management

The camera's 20,000mAh battery, combined with the 10W solar panel, is designed for extended operation. Under optimal sunlight conditions, the camera can operate continuously. In periods of low sunlight, the battery can sustain operation for up to 3 months (based on 30 wake-ups per day, 20 seconds each time). Monitor battery status via the UBOX app.

5.3. Firmware Updates

Check the UBOX app regularly for available firmware updates. Keeping your camera's firmware updated ensures optimal performance, security, and access to new features.

6. Troubleshooting

Problem	Possible Cause	Solution
Camera not connecting to Wi-Fi	Incorrect Wi-Fi band (5G), weak signal, incorrect password.	Ensure you are connecting to a 2.4G Wi-Fi network. Move the camera closer to the router (within 15m). Double-check the Wi-Fi password. Reset the camera and try pairing again.
No motion detection alerts	PIR sensitivity too low, camera placed too far from detection area, app notifications disabled.	Adjust PIR sensitivity settings in the UBOX app. Ensure the camera is positioned to cover the desired area. Check your phone's notification settings for the UBOX app.
Battery not charging or low battery	Insufficient sunlight, dirty solar panel, faulty connection.	Ensure the solar panel receives direct sunlight for several hours daily. Clean the solar panel surface. Check the connection between the solar panel and the camera. For initial setup, charge via power cable.
Poor night vision quality	Obstructions, dirty lens, IR/white lights disabled.	Clear any obstructions in front of the camera. Clean the lenses. Ensure IR and/or white lights are enabled in the app settings.
Camera not recording	No motion detected, TF card full/missing, cloud storage not active.	Remember the camera only records upon motion detection. Check if a TF card is inserted and has sufficient space, or if cloud storage is active.

7. Specifications

Feature	Detail
Model Name	ST-699-6M-36X-10W-WIFI-923
Indoor/Outdoor Usage	Outdoor
Video Capture Resolution	6MP
Connectivity Technology	Wireless (2.4G Wi-Fi)
Power Source	Solar Powered (10W Solar Panel)

Feature	Detail
Battery	Built-in 20,000mAh
Optical Zoom	36X
Lens 1	2.8mm (Wide-Angle)
Lens 2	5.9+94.4mm (Zoom)
Night Vision Range	Up to 50m (IR), 200 Feet (General)
PIR Human Detection	Max 12M
Storage	Amazon Cloud & TF Card (MAX 128GB, not included)
Material	Metal
Water Resistance Level	IP66 (Waterproof)
Control Method	App (UBOX)
Mounting Type	Wall Mount
Special Features	2-Way Audio, HD Resolution, Local Recording, Motion Sensor, Optical ZOOM, Color Night Vision, Spotlight
Item Weight	5.5 pounds

8. Warranty & Support

8.1. Warranty Information

INQMEGA products are manufactured to high-quality standards. For specific warranty terms and conditions, please refer to the warranty card included with your product or contact INQMEGA customer support directly. Keep your purchase receipt as proof of purchase for warranty claims.

8.2. Customer Support

If you encounter any issues or have questions regarding your INQMEGA 6MP Dual-Lens Solar-Powered Security Camera that are not covered in this manual, please contact INQMEGA customer support. Contact information can typically be found on the product packaging, the official INQMEGA website, or within the UBOX application.