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› INQMEGA 20X Zoom Dual View Solar Battery PTZ Camera User Manual

## INQMEGA ST-637-6M-20X-4G-US

# INQMEGA 20X Zoom Dual View Solar Battery PTZ Camera User Manual

Model: ST-637-6M-20X-4G-US

## 1. INTRODUCTION

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Thank you for choosing the INQMEGA 20X Zoom Dual View Solar Battery PTZ Camera. This manual provides detailed instructions for the setup, operation, and maintenance of your camera. Please read this manual thoroughly before use to ensure proper functionality and safety.

This camera is designed for outdoor surveillance, featuring a 20X optical zoom, dual-lens system, solar power, and 4G cellular connectivity for remote monitoring.



Image 1.1: The INQMEGA 20X Zoom Dual View Solar Battery PTZ Camera with its accompanying solar panel.

## 2. SAFETY INFORMATION

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- Ensure the camera is installed in a secure location, out of reach of unauthorized individuals.
- Use only the provided power cable and solar panel for charging.
- Do not expose the camera to extreme temperatures or corrosive environments.
- Avoid direct exposure of the solar panel to shade for optimal charging.
- Do not attempt to disassemble or modify the camera, as this will void the warranty.

## 3. PACKAGE CONTENTS

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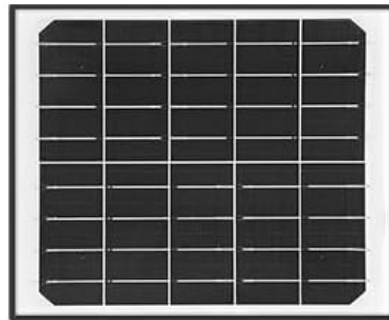
Verify that all items listed below are included in your package:

- Camera \* 1
- Solar Panel \* 1
- User Manual \* 1
- Camera Bracket \* 1
- Solar Panel Bracket \* 1
- Power Cable \* 1

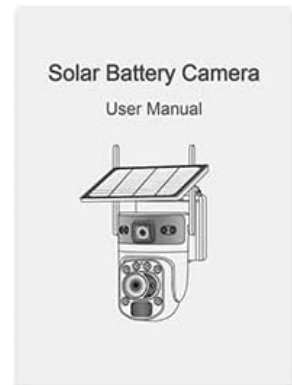
# Detailed list of products



Camera \*1



Solar Panel \*1



User Manual \*1



Camera Bracket \*1



Solar panel Bracket \*1



Power Cable \*1

Image 3.1: Visual representation of the items included in the product package.

## 4. PRODUCT OVERVIEW

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Familiarize yourself with the components of your INQMEGA camera and solar panel:

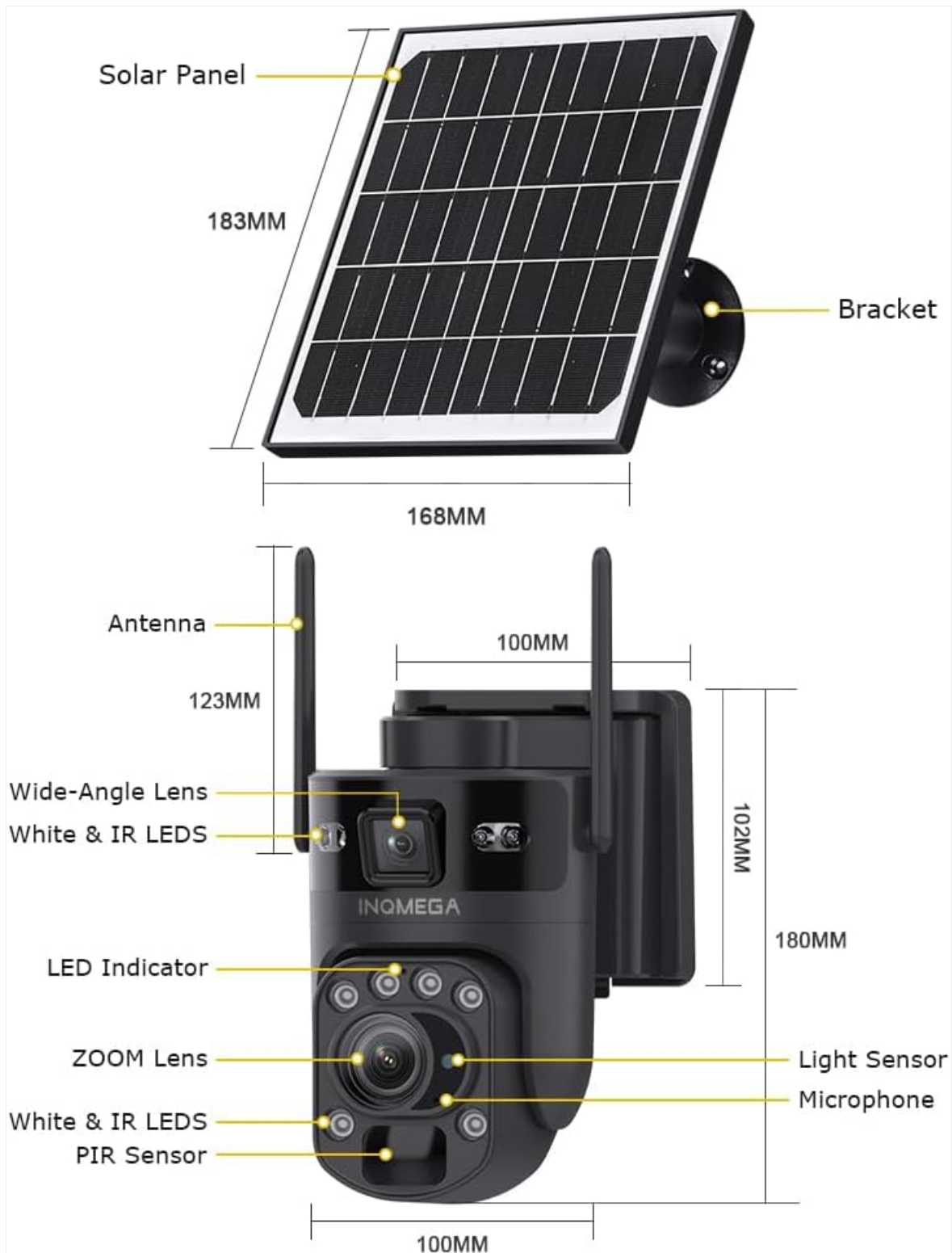


Image 4.1: Labeled diagram of the camera and solar panel components with dimensions.

- **Solar Panel:** 6W panel for continuous power.
- **Wide-Angle Lens:** Provides a broad field of view.
- **Zoom Lens:** Offers 20X optical zoom for detailed viewing.
- **White & IR LEDs:** For effective night vision up to 50m.
- **PIR Sensor:** Passive Infrared sensor for human detection.
- **Microphone:** For audio input and two-way communication.
- **Light Sensor:** Detects ambient light for automatic night vision activation.
- **Antennas:** For 4G cellular connectivity.
- **LED Indicator:** Shows camera status.

## 5. SETUP

### 5.1 Powering the Camera (Solar Panel Connection)

The camera is equipped with a 10050mAh built-in battery and a 6W solar panel for continuous power. Connect the solar panel to the camera to ensure uninterrupted operation.

1. Mount the solar panel in a location that receives maximum direct sunlight throughout the day.
2. Connect the solar panel's cable to the designated power input port on the camera.
3. Ensure the connection is secure and waterproof.



Image 5.1: Illustration of the solar panel providing power to the camera.

### 5.2 SIM Card and TF Card Installation

This camera supports 4G cellular connectivity and local storage via a TF card (up to 128GB, not included).

1. Locate the SIM card slot and TF card slot on the camera (refer to Product Overview diagram).
2. Insert a valid 4G SIM card into the SIM card slot with the metal contacts facing down.

3. Insert a formatted TF card (Class 10 or higher recommended) into the TF card slot.
4. Ensure both cards are inserted correctly and securely.

### **5.3 App Installation and Initial Pairing**

The camera uses the UBOX application for remote control and monitoring.

1. Download the "UBOX" app from your smartphone's app store (iOS App Store or Google Play Store).
2. Register for an account and log in.
3. Follow the in-app instructions to add your camera. This typically involves scanning a QR code on the camera or manually entering its ID.
4. Ensure your smartphone has an active internet connection during the pairing process.

## **6. OPERATING INSTRUCTIONS**

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### **6.1 Dual View Monitoring**

The camera features a dual-lens system, providing both a wide-angle view and a zoom view simultaneously within the UBOX app.

# Dual Lens, Dual View

There are 2 video screens in APP,  
one is Wide-angle Lens and  
the other is Zoom Lens.



Image 6.1: Dual video screens in the UBOX app, displaying wide-angle and zoom lens views.

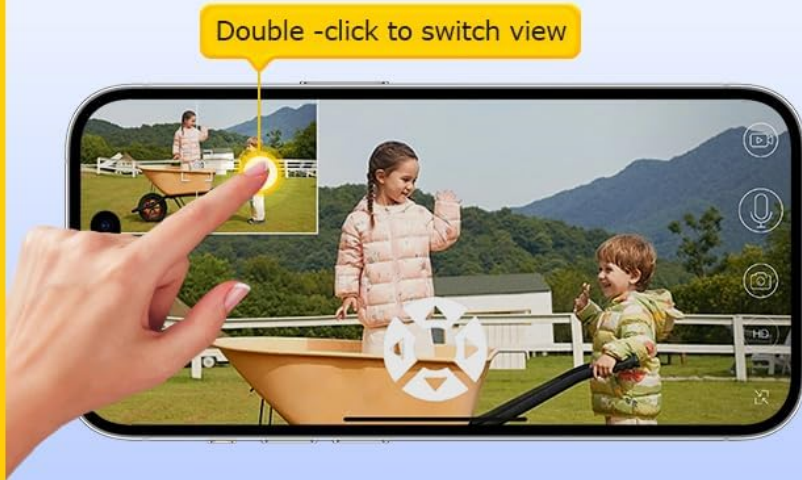
- Open the UBOX app and select your camera.
- You will see two live video feeds. The top feed is typically the wide-angle lens, and the bottom feed is the zoom lens.
- Double-click on either view to switch between them or to make one full screen.
- Drag the screen of the wide-angle view to reposition the zoom lens's focus area. The zoom lens will follow the selected position.

# Dual View Monitoring



## Free Switching

Dual camera images on the same phone screen.



## Drag to view the screen

Zoom Lens can follow the position of the wide-angle Lens to view what you want to see.

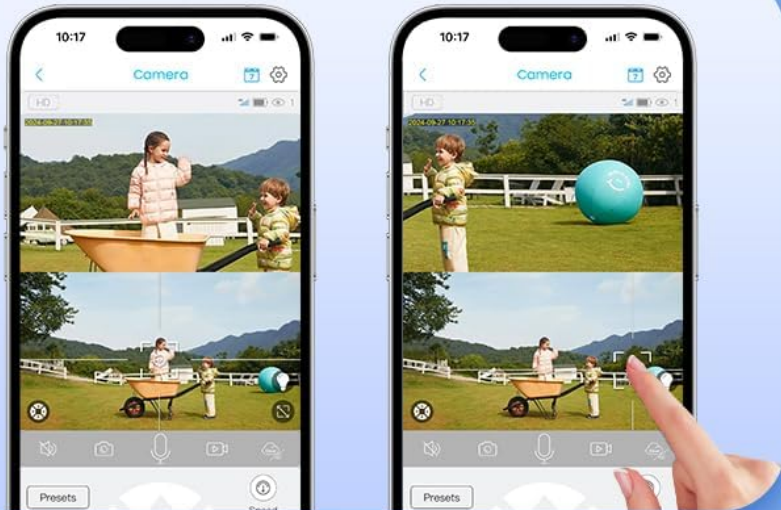


Image 6.2: Demonstrating free switching and drag-to-view functionality in the app.

## 6.2 PTZ Control and 20X Optical Zoom

The camera supports Pan-Tilt-Zoom (PTZ) functionality and a powerful 20X optical zoom.

- In the live view interface of the UBOX app, use the directional controls to pan (move horizontally) and tilt (move vertically) the camera.
- Utilize the zoom controls (e.g., a slider or +/- buttons) to activate the 20X optical zoom for detailed inspection of distant objects.

## 6.3 Night Vision

The camera provides clear visibility in low-light conditions with its infrared (IR) and white LED lights, offering an effective night vision range of up to 50 meters.

- The camera automatically switches to night vision mode when ambient light is low.
- You can typically configure night vision settings (e.g., IR only, white light only, or smart mode) within the UBOX app.

## 6.4 PIR Human Detection

The Passive Infrared (PIR) sensor detects human movement, triggering recordings and alerts.

- Enable PIR detection in the UBOX app settings.
- Adjust sensitivity levels to minimize false alarms.
- When motion is detected, the camera will record and send notifications to your smartphone.

## 6.5 Two-Way Audio

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

- In the live view, tap the microphone icon to speak through the camera's speaker.
- Ensure your phone's microphone is enabled for the UBOX app.

## 6.6 Recording and Storage

The camera supports both local TF card storage and cloud storage for recorded footage.

# 6MP Super HD Videos & Live View

The picture is clear and smooth, and it can accurately record the changes in the details in the monitoring area.



Image 6.3: The camera provides 6MP Super HD video quality for clear and smooth recordings.

# Multiple Storage Methods

Automatic recording and storage of audio, video and video, safe backup, and important information is not missed.

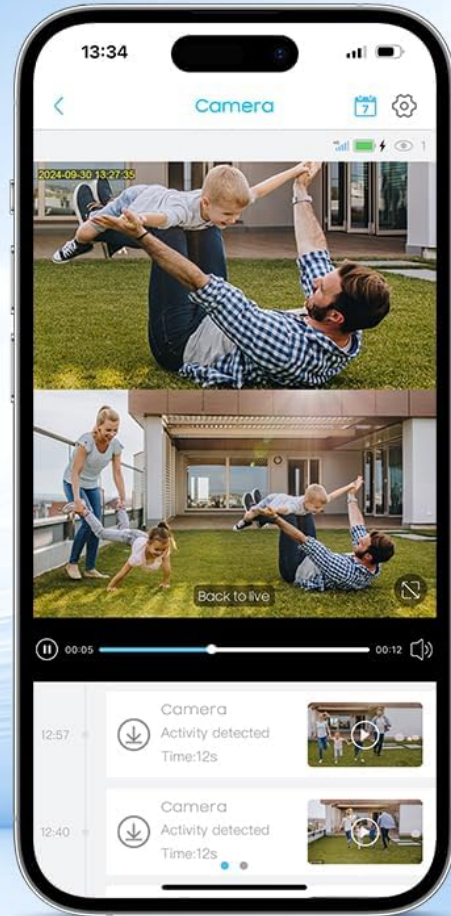


Image 6.4: Multiple storage methods available: TF Card and Cloud Storage.

- **TF Card Storage:** Recordings are saved directly to the inserted TF card. The app allows you to view and download these recordings.
- **Cloud Storage:** Subscribe to a cloud storage plan through the UBOX app for secure, remote backup of your footage.
- Configure recording settings (e.g., continuous recording, event-triggered recording) within the app.

## 7. MAINTENANCE

- **Cleaning:** Regularly wipe the camera lenses and solar panel with a soft, damp cloth to remove dust and debris. Do not use harsh chemicals.
- **Solar Panel Efficiency:** Ensure the solar panel remains free from obstructions (leaves, snow, dirt) to maintain optimal charging efficiency.
- **Battery Health:** While the camera is designed for continuous solar power, avoid prolonged periods of complete discharge in environments without sunlight to preserve battery life.
- **Firmware Updates:** Check the UBOX app periodically for firmware updates to ensure your camera has the latest

features and security enhancements.

## 8. TROUBLESHOOTING

Problem	Possible Solution
Camera not powering on.	Ensure the solar panel is connected and receiving sufficient sunlight. Check the battery level in the app (if accessible). Charge the camera directly using the power cable if the battery is completely depleted.
No 4G signal or offline.	Verify the SIM card is correctly inserted and activated with a data plan. Check the signal strength in the camera's location. Relocate if necessary. Restart the camera.
PIR detection not working.	Ensure PIR detection is enabled in the UBOX app settings. Adjust PIR sensitivity. Clear any obstructions in front of the PIR sensor.
Poor night vision quality.	Clean the camera lenses and IR/white LEDs. Ensure there are no reflective surfaces close to the camera that could cause glare.

## 9. SPECIFICATIONS

Feature	Detail
Model Name	ST-637-6M-20X-4G-US
Indoor/Outdoor Usage	Outdoor
Power Source	Solar Powered (6W Solar Panel), Built-in 10050mAh Battery
Connectivity Protocol	Cellular (4G)
Controller Type	UBOX App
Video Capture Resolution	6MP
Optical Zoom	20X
Night Vision Range	Up to 50m (230 Feet)
PIR Detection Range	Max 12M
Storage Options	Amazon Cloud & TF Card (MAX 128GB, Not Included)
Water Resistance Level	Waterproof (IP66)
Special Features	2-Way Audio, Dual View, Motion Sensor
Material	Plastic
Item Weight	5.5 pounds

## 10. WARRANTY AND SUPPORT

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Your INQMEGA camera comes with a standard manufacturer's warranty. Please refer to the warranty card included in your package or visit the official INQMEGA website for detailed warranty terms and conditions.

For technical support, troubleshooting assistance, or further inquiries, please contact INQMEGA customer service through the UBOX app or visit the [INQMEGA Store on Amazon](#).