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› INQMEGA 12X Zoom 4G LTE Cellular Security Camera User Manual

INQMEGA FN-515-6M-12X-4G-US

INQMEGA 12X Zoom 4G LTE Cellular Security Camera User Manual

Model: FN-515-6M-12X-4G-US

1. INTRODUCTION

Thank you for choosing the INQMEGA 12X Zoom 4G LTE Cellular Security Camera. This manual provides detailed instructions for the setup, operation, and maintenance of your new security camera. Please read this manual thoroughly before use to ensure proper functionality and to maximize the camera's capabilities.



The INQMEGA 12X Zoom 4G LTE Cellular Security Camera, featuring a solar panel for power and a 4G SIM card for connectivity.

2. KEY FEATURES

- **4G LTE Cellular Connectivity:** Operates independently without Wi-Fi, ideal for remote locations. Includes a 4G LTE SIM card with initial data.
- **6MP HD Images & Full Color Night Vision:** Delivers high-resolution video and offers infrared, full-color, and intelligent night vision modes for clear viewing up to 65 feet in low light.
- **12X Hybrid Zoom & 360° Viewing:** Features 4x optical zoom + 3x digital hybrid zoom for detailed distant views, alongside 355° horizontal pan and 90° vertical tilt control via the app.
- **PIR Motion Detection & Real-time Alerts:** Advanced PIR sensors detect human movement, triggering instant phone alerts, loud sirens, spotlights, or sound alarms.
- **Solar Powered & Easy Installation:** Equipped with a solar panel and built-in battery for continuous power, eliminating the need for frequent recharging. IP66 weatherproof rating ensures durability in various conditions.

6MP 4G LTE

12X ZOOM Dual Lens Solar Battery Camera



Dual Lens



12X ZOOM



Solar Panel Power



Built-in Battery



PIR Human Detection



Preset position



Color/IR Night Vision



IP65 Waterproof



An overview of the camera's primary features.

3. SETUP GUIDE

3.1 Package Contents

Ensure all components are present:

- INQMEGA 4G LTE Cellular Security Camera
- Solar Panel
- Mounting Bracket and Screws
- 4G LTE SIM Card (pre-installed or included separately)
- USB Charging Cable
- User Manual

3.2 SIM Card Installation

The camera requires a 4G LTE SIM card for cellular connectivity. A SIM card is typically included in the package. Insert the SIM card into the designated slot on the camera. Ensure it is correctly oriented as per the diagram on the camera body or in the quick start guide.

Flexible 4G Cellular Network Options

*Include 4G card



Mini SIM Card
Micro SIM Card
Nano SIM Card

*EIoTCLUB SIM Card



Cloud Storage



SD Card



Illustration of SIM card and SD card insertion.

3.3 Initial Charging

Before first use, fully charge the camera's built-in battery using the provided USB cable. Connect the cable to the camera's charging port and a standard USB power adapter (not included). The solar panel will maintain the charge once installed.

3.4 Mounting the Camera

Select a location with good cellular signal and direct sunlight exposure for the solar panel. The camera supports both wall mounting and ceiling hanging. Use the provided mounting bracket and screws to securely attach the camera and solar panel.

Multiple installation methods



Ceiling Hanging

Wall mounting

Multiple installation methods for the camera and solar panel.

3.5 App Download and Pairing

Download the official INQMEGA app from your smartphone's app store (iOS or Android). Follow the in-app instructions to register an account and add your camera. This typically involves scanning a QR code on the camera or entering its device ID.

4. OPERATING YOUR CAMERA

4.1 Live View and PTZ Control

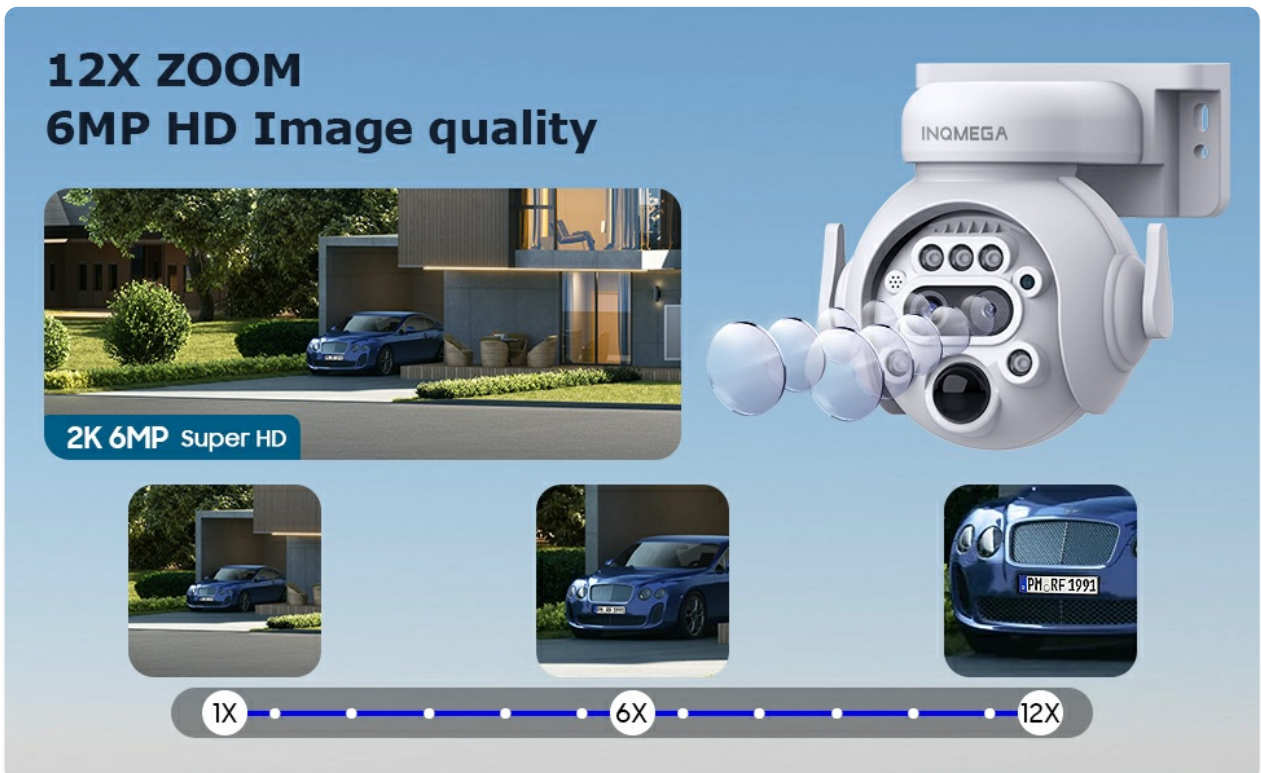
Access the live video feed through the INQMEGA app. Use the on-screen controls to pan (355° horizontal) and tilt (90° vertical) the camera to adjust its viewing angle. This allows for comprehensive coverage of your monitored area.



Two-way audio and PTZ rotation controls via the app.

4.2 Zoom Functionality

The camera features 12X hybrid zoom (4x optical + 3x digital). Use the zoom controls in the app to magnify distant objects for clearer detail, such as license plates or facial features.



Demonstration of the 12X zoom feature.

4.3 Night Vision Modes

The camera offers three night vision modes:

- **Infrared (IR) Night Vision:** Provides clear black and white images in complete darkness.
- **Full Color Night Vision:** Activates built-in spotlights to provide full-color video even at night.
- **Intelligent Night Vision:** Automatically switches between IR and color night vision based on detected motion or light conditions.



IP65 waterproof rating and night vision modes.

4.4 PIR Motion Detection and Alerts

The camera uses Passive Infrared (PIR) sensors to detect human movement. When motion is detected, the camera will:

- Send real-time push notifications to your smartphone.
- Trigger a loud siren or spotlight (configurable in app).
- Begin recording video to the SD card or cloud storage.

4.5 Two-Way Audio

Utilize the built-in microphone and speaker for two-way communication. This feature allows you to speak to visitors or deter intruders directly through the camera via the app.

4.6 Preset Positions and Human Tracking

Set up specific preset positions for quick camera navigation. The camera also supports human tracking, automatically following detected human figures within its field of view.



Sunshine Here Power on Always



Preset point & Guards

Solar power for continuous operation and setting up preset monitoring points.

4.7 Official Product Video

Watch this official video for a visual guide on key camera functions, including PTZ rotation, human tracking, 12X zoom, preset positions, IP65 waterproofing, and night vision capabilities.

Your browser does not support the video tag.

Video: INQMEGA 515 Solar Camera Function (Source: INQMEGA Direct)

5. MAINTENANCE

- **Cleaning:** Regularly wipe the camera lens and solar panel with a soft, damp cloth to ensure clear vision and efficient solar charging. Avoid abrasive cleaners.
- **Firmware Updates:** Check the INQMEGA app periodically for firmware updates. Keeping your camera's firmware updated ensures optimal performance and security.
- **Battery Health:** While solar-powered, ensure the camera receives adequate sunlight. If the camera is in a shaded area for extended periods, occasional manual charging via USB may be necessary.
- **Weather Protection:** The camera is IP66 weatherproof, but extreme weather conditions (e.g., prolonged heavy snow, hail) may require additional protective measures or temporary relocation.

6. TROUBLESHOOTING

6.1 No Connection / Offline

- **Check SIM Card:** Ensure the 4G LTE SIM card is correctly inserted and activated with a valid data plan.

- **Signal Strength:** Verify that the camera is in an area with sufficient 4G LTE signal. Relocate if necessary.
- **Reboot Camera:** Power cycle the camera by turning it off and on again.
- **App Issues:** Ensure the INQMEGA app is updated to the latest version.

6.2 Motion Detection Not Working / Too Sensitive

- **Adjust Sensitivity:** In the app settings, adjust the PIR motion detection sensitivity.
- **Clear Obstructions:** Ensure there are no physical obstructions blocking the PIR sensor.
- **Placement:** Avoid placing the camera directly facing busy roads or areas with constant non-human movement if false alarms are an issue.

6.3 Battery Not Charging / Low Power

- **Solar Panel Exposure:** Ensure the solar panel receives direct sunlight for several hours daily. Clear any dirt or debris from its surface.
- **Cable Connection:** Check the connection between the solar panel and the camera.
- **Manual Charge:** If solar charging is insufficient due to prolonged cloudy weather or low light, manually charge the camera using the USB cable.

6.4 Poor Image Quality

- **Clean Lens:** Gently clean the camera lens to remove dust or smudges.
- **Network Speed:** Ensure your 4G LTE connection is stable and has sufficient bandwidth for high-resolution streaming.
- **Lighting:** Verify adequate lighting conditions, especially for full-color night vision.

7. SPECIFICATIONS

Attribute	Detail
Model Number	FN-515-6M-12X-4G-US
Form Factor	Bullet
Video Capture Resolution	6 MP
Effective Still Resolution	6 MP
Zoom	12X (4x optical + 3x digital hybrid)
Pan & Tilt	355° Pan, 90° Tilt
Night Vision	Infrared, Full Color, Intelligent
Connectivity	4G LTE Cellular (No Wi-Fi required)
Power Source	Solar Panel & Built-in Battery
Weatherproof Rating	IP66
Motion Detection	PIR Human Detection

Audio	Two-Way Audio
Storage	Cloud Storage, SD Card (up to 128GB, not included)
Item Weight	2.29 pounds
Package Dimensions	7.64 x 7.28 x 6.02 inches

8. WARRANTY AND SUPPORT

For warranty information, technical support, or service inquiries, please refer to the contact details provided on the product packaging or visit the official INQMEGA website. Keep your purchase receipt as proof of purchase for warranty claims.