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› INQMEGA IL-HIP291G-2M-AI FHD 1080P WiFi Pan/Tilt Security Camera User Manual

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INQMEGA IL-HIP291G-2M-AI FHD 1080P WiFi Pan/Tilt Security Camera User Manual

Model: IL-HIP291G-2M-AI

1. INTRODUCTION

This manual provides detailed instructions for the setup, operation, and maintenance of your INQMEGA IL-HIP291G-2M-AI FHD 1080P WiFi Pan/Tilt Security Camera. Please read this manual thoroughly before using the product to ensure correct usage and optimal performance. This camera is designed for indoor use to monitor your home, pets, or family members.

2. PRODUCT OVERVIEW



Figure 0: The INQMEGA IL-HIP291G-2M-AI FHD 1080P WiFi Pan/Tilt Security Camera.

2.1 Package Contents

Verify that all items are present in your package:

- 1 x INQMEGA 2.4G WIFI Camera
- 1 x Power adapter
- 1 x USB cable
- 1 x Mounting bracket and screws
- 1 x User Manual (this document)

2.2 Camera Components

Familiarize yourself with the various parts of your INQMEGA security camera.



Figure 1: Front and rear view of the INQMEGA camera with labeled components including IR Sensor, Lens, Microphone, Antenna, Speaker, Reset button, and DC 5V power input.

- **IR Sensor:** Detects ambient light for automatic night vision activation.
- **Lens:** Captures video footage.
- **Microphone:** For two-way audio communication.
- **Antenna:** For Wi-Fi connectivity.
- **Speaker:** For two-way audio communication.
- **Reset Button:** Used to reset the camera to factory settings.
- **DC 5V Input:** Power connection port.

2.3 Key Features

- **Full HD 1080P Video:** Captures clear video at 1920x1080 resolution.
- **2.4GHz Wi-Fi Connectivity:** Connects to your home network (5GHz Wi-Fi is not supported).
- **Pan & Tilt Functionality:** Horizontal 360° pan and vertical 110° tilt for wide area coverage.

- **Smart Motion Tracking:** Automatically detects and tracks moving objects, bodies, or pets.
- **Night Vision:** Automatic switching to infrared night vision, with a range of up to 30 feet (9 meters).
- **Two-Way Audio:** Built-in microphone and speaker for remote communication.
- **Cloud Storage & SD Card Support:** Options for video recording storage (up to 128GB MicroSD card).
- **Mobile App Control:** Remote viewing, control, and settings customization via a smartphone app.

3. SETUP GUIDE

3.1 Powering On the Camera

1. Connect the provided USB cable to the camera's DC 5V input port.
2. Plug the power adapter into a standard electrical outlet.
3. The camera will power on, and an indicator light will illuminate. Wait for the camera to complete its self-test (usually involves a brief rotation).

3.2 App Installation and Account Registration

1. Download the official INQMEGA app from your smartphone's app store (iOS App Store or Google Play Store).
2. Open the app and follow the on-screen instructions to register a new account or log in if you already have one.

3.3 Connecting to Wi-Fi

Important: The camera only supports 2.4GHz Wi-Fi networks. Ensure your smartphone is connected to a 2.4GHz Wi-Fi network during setup.

1. In the app, tap the "Add Device" or "+" icon.
2. Select your camera model or choose the "Smart Camera" option.
3. Follow the app's instructions to connect the camera to your Wi-Fi network. This typically involves scanning a QR code displayed on your phone with the camera lens or entering Wi-Fi credentials.
4. Once connected, the camera's indicator light will change, and the app will confirm successful pairing.

3.4 Mounting the Camera (Optional)

The camera can be placed on a flat surface or mounted to a wall or ceiling using the included bracket and screws.

1. Choose a suitable location for optimal viewing.
2. Attach the mounting bracket to the desired surface using the screws.
3. Securely attach the camera to the mounting bracket.

4. OPERATING INSTRUCTIONS

4.1 Live View

After successful setup, open the app and select your camera from the device list to access the live video feed.

4.2 Pan and Tilt Control

In the live view interface, use the directional controls within the app to remotely adjust the camera's viewing angle (horizontal 360°, vertical 110°).

4.3 Two-Way Audio

To use two-way audio:

1. Tap the microphone icon in the app's live view.
2. Speak into your phone's microphone. Your voice will be transmitted through the camera's speaker.
3. Release the microphone icon to listen through the camera's microphone.



Dad, where are you ?

Honey, I'm here.

Two-way Audio

Equipped with built-in microphone and speaker, remotely talk and listen to is enabled. any timeYou can remotely view your pet dog, family, employee, etc. and talk to them"

Figure 2: Illustration of the two-way audio feature, allowing remote communication through the camera.

4.4 Motion Detection and Auto Tracking

The camera can detect motion and automatically track moving subjects.

- **Enable Motion Detection:** Go to the camera settings in the app and enable motion detection. You can adjust sensitivity levels.
- **Auto Tracking:** Activate the "Smart Track" function in the app. The camera will automatically pan and tilt to follow detected movement.
- **Alerts:** When motion is detected, the app will send instant push notifications to your smartphone.



Figure 3: Visual representation of the motion auto-tracking feature, where the camera follows movement within its field of view.

4.5 Night Vision

The camera automatically switches to infrared night vision mode in low-light conditions, providing clear black and white video up to 30 feet.



Smart Camera With Night Vision

Automatically switches to night vision mode in low light when night falls. Night vision ranges up to 49 feet.

Figure 4: The camera's smart night vision feature, automatically activating in low light to monitor sleeping subjects.

4.6 Video Recording and Storage

The camera supports two storage options:

- **MicroSD Card:** Insert a MicroSD card (up to 128GB, not included) into the designated slot on the camera. The camera will automatically begin recording based on your settings (e.g., continuous, motion-triggered).
- **Cloud Storage:** The camera offers cloud storage services. Refer to the app for subscription details and to activate cloud recording.



Figure 5: Cloud storage option for secure and accessible video recordings.

4.7 Camera Sharing

You can share access to your camera's live feed with other users through the app. Navigate to the camera settings and select the sharing option to invite family members or trusted individuals.

5. MAINTENANCE

- **Cleaning:** Use a soft, dry cloth to clean the camera lens and body. Avoid abrasive cleaners or solvents.
- **Firmware Updates:** Periodically check the app for available firmware updates. Keeping your camera's firmware updated ensures optimal performance and security.
- **SD Card Management:** If using an SD card, regularly back up important footage and consider formatting the card periodically through the app to maintain performance.
- **Power Cycle:** If the camera experiences issues, try unplugging it from the power source for 10 seconds and then plugging it back in.

6. TROUBLESHOOTING

Problem	Possible Solution
Camera fails to connect to Wi-Fi.	• Ensure your Wi-Fi network is 2.4GHz. 5GHz networks are not supported. • Check Wi-Fi password for accuracy. • Move the camera closer to your Wi-Fi router. • Reset the camera using the reset button and try setup again.
Poor video quality or lag.	• Check your internet connection speed. • Ensure the camera is within good Wi-Fi signal range. • Reduce video quality settings in the app if available.
Motion detection not working or too sensitive.	• Adjust motion detection sensitivity in the app settings. • Ensure motion detection is enabled. • Check for obstructions in the camera's field of view.
Two-way audio not functioning.	• Ensure microphone and speaker permissions are granted to the app on your smartphone. • Check volume settings on both your phone and within the app. • Verify the camera's microphone and speaker are not obstructed.
SD card not recording.	• Ensure the SD card is inserted correctly. • Format the SD card through the app. • Check if the SD card is full or corrupted. Try a different SD card.

7. SPECIFICATIONS

Feature	Detail
Model Number	IL-HIP291G-2M-AI
Video Capture Resolution	1080p (Full HD)
Effective Video Resolution	1080 Pixels
Frame Rate	25 frames per second
Connectivity Technology	Wireless (Wi-Fi)
Wireless Communication	2.4GHz Wi-Fi (5GHz not supported)
Viewing Angle	Horizontal 360 Degrees, Vertical 110 Degrees
Night Vision Range	30 Feet (approx. 9 meters)
Special Features	Night Vision, Motion Detection, Auto Tracking, Two-Way Audio
Indoor/Outdoor Use	Indoor
Storage Options	Cloud Storage, MicroSD Card (up to 128 GB)
Power Source	AC/DC (5V, 5W)
Mounting Type	Wall Mount

Feature	Detail
Material	Plastic
Dimensions (L x W x H)	8.13 x 8.13 x 10.92 cm (3.2 x 3.2 x 4.3 inches)
Weight	250 g
Manufacturer	Shenzhen SECTEC CO., LIMITED

8. WARRANTY AND SUPPORT

For warranty information, please refer to the documentation provided at the time of purchase or contact your retailer. For technical support or further assistance, please contact the manufacturer, Shenzhen SECTEC CO., LIMITED, or refer to the support section within the INQMEGA mobile application.

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.

Name

Anonymous

Email

you@example.com

After a successful submission, we securely hash the supplied account or form email before sending it to Microsoft Advertising for conversion attribution. [Privacy details](#).

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.

Submit question