

## Active Pixel G16

# Active Pixel G16 4G Solar Powered 4MP Triple Camera Security System User Manual

Model: G16

## 1. PRODUCT OVERVIEW

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The Active Pixel G16 is a 4G solar-powered outdoor security camera system featuring a 4MP resolution and a triple-lens setup with 10X optical zoom. It operates via a 4G LTE SIM card, eliminating the need for Wi-Fi, making it suitable for remote locations. The system includes two fixed-angle lenses and one 360° pan-tilt-zoom (PTZ) lens for comprehensive coverage. Integrated solar panels and a built-in battery ensure continuous operation. Key features include motion detection, two-way audio, and IP66 weather resistance.

### Package Contents

- 1x Active Pixel G16 Camera Unit
- 1x Power Adapter
- 1x User Manual
- 1x Screw Kit for Installation



Figure 1.1: The Active Pixel G16 camera system, showcasing its triple lens design and dual solar panels for power generation.

## 2. SETUP GUIDE

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### 2.1 SIM Card Installation

1. Locate the SIM card slot on the camera unit. This is typically protected by a waterproof cover.
2. Carefully open the cover using a small screwdriver if necessary.
3. Insert an activated 4G LTE SIM card into the designated slot. Ensure the SIM card is correctly oriented according to the diagram near the slot.
4. Securely close the waterproof cover to prevent water ingress.

### 2.2 Physical Installation

1. Choose a mounting location that provides optimal sunlight exposure for the solar panels and a clear view of the desired surveillance area.
2. Use the provided screw kit to securely mount the camera bracket to a wall or pole. Ensure the mounting surface is stable.
3. Attach the camera unit to the mounted bracket. Adjust the angle of the solar panels to maximize sun exposure throughout the day.
4. Connect the solar panel cable to the camera unit's power input.

## Dual Solar Panel Charging

The solar-powered large-capacity battery has an extremely long standby time



Figure 2.1: Diagram illustrating the dual solar panel charging mechanism and recommended placement for optimal sunlight.

### 2.3 Initial Power-Up and App Connection

1. Ensure the camera has sufficient battery charge or is receiving sunlight.
2. Download the official Active Pixel mobile application from your device's app store (iOS or Android).
3. Register an account and follow the in-app instructions to add your new camera. This typically involves scanning a QR code on the camera or manually entering its device ID.
4. Once connected, you can access the live view and configure camera settings.

## 3. OPERATING INSTRUCTIONS

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### 3.1 Live View and PTZ Control

From the mobile application, select your camera to access the live video feed. You can switch between the two fixed-angle lenses and the PTZ lens. For the PTZ lens, use the on-screen controls to pan (horizontal rotation), tilt (vertical movement), and zoom (10X optical zoom) the camera to adjust its viewing angle.

# Panoramic **TRIPLE** LENS

Three-lens and three-screen simultaneous monitoring video

**10X**  
OPTICAL  
ZOOM



Figure 3.1: Mobile application interface displaying simultaneous views from the triple lens system, including the 10X optical zoom capability.

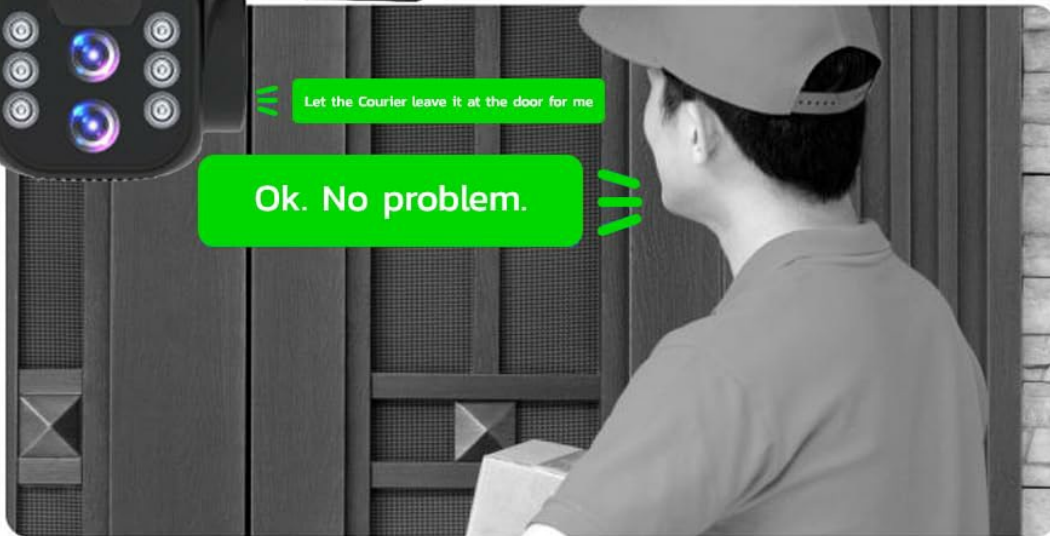
## 3.2 Two-Way Audio

The camera supports two-way audio communication. In the live view, tap the microphone icon to speak through the camera's speaker, and tap the speaker icon to listen to audio from the camera's vicinity. This feature can be used for communication or as an alarm deterrence.



**ACTIVE pixel**<sup>®</sup>  
safety made easier

**TWO-WAY**  
**Voice Intercom**  
**Alarm Deterrence**



The built-in microphone and speaker can remotely deter  
Alarm sound effects can be played to scare of intruders

Figure 3.2: Illustration of the two-way voice intercom feature, allowing remote communication through the camera.

### 3.3 Motion Detection and Alerts

Configure motion detection settings within the app. You can set detection zones, sensitivity levels, and schedule times for alerts. When motion is detected, the camera will record footage and send push notifications to your mobile device.

### 3.4 Video Recording and Storage

The camera supports local storage via a microSD card (up to 128GB) and cloud storage (subscription may be required). Recorded footage can be accessed and reviewed through the mobile application.



Play at anytime without  
subscription fee

24/7 Monitoring



Support  
128GB



Cloud Service  
(pay)



Figure 3.3: The camera supports both local storage via an SD card (up to 128GB) and optional cloud service for video recording.

## 4. MAINTENANCE

### 4.1 Cleaning

- Regularly clean the camera lenses and solar panels with a soft, damp cloth to ensure optimal performance and image clarity.
- Avoid using harsh chemicals or abrasive materials that could scratch the surfaces.

### 4.2 Battery Care

- Ensure the solar panels receive adequate direct sunlight daily to maintain battery charge.
- In prolonged periods of low sunlight, the camera may require charging via the included power adapter.

### 4.3 Firmware Updates

- Check the mobile application periodically for available firmware updates.
- Install updates as recommended to ensure the camera operates with the latest features and security enhancements.

## 5. TROUBLESHOOTING

Problem	Possible Cause	Solution
Camera not powering on.	Low battery; solar panels not charging; power connection issue.	Ensure solar panels are in direct sunlight. Charge the camera using the power adapter. Check all power connections.
No 4G network connection.	SIM card not activated; incorrect SIM insertion; poor network coverage.	Verify SIM card activation with your provider. Reinsert SIM card correctly. Relocate camera to an area with better 4G signal.
Unable to connect to the camera via app.	Camera offline; incorrect device ID; app malfunction.	Check camera power and 4G status. Re-add the device in the app. Restart the app or your mobile device.
Poor image quality.	Dirty lens; low light conditions; network bandwidth issues.	Clean the camera lenses. Ensure adequate lighting. Check 4G signal strength.
Motion detection not working.	Incorrect settings; detection zone too small; environmental factors.	Review motion detection settings in the app. Adjust sensitivity and detection zones.

## 6. TECHNICAL SPECIFICATIONS

Feature	Specification
Model Name	G16
Video Capture Resolution	4MP (2560x1440)
Zoom	10X Optical Zoom
Connectivity Technology	4G LTE Cellular
Indoor/Outdoor Usage	Outdoor
Weather Resistance	IP66 Waterproof
Mounting Type	Wall Mount
Storage Options	MicroSD Card (up to 128GB), Cloud Storage (optional)
Audio	2-Way Audio
Power Source	Solar Powered with Built-in Battery
Product Dimensions	20 x 20 x 15 cm
Item Weight	1.35 g
Manufacturer	Active Pixel

Feature	Specification
Country of Origin	China

## 7. WARRANTY AND SUPPORT

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### 7.1 Warranty Information

This Active Pixel G16 camera system comes with a 1-year manufacturer's warranty from the date of purchase. The warranty covers defects in materials and workmanship under normal use. It does not cover damage caused by misuse, accidents, unauthorized modifications, or natural disasters. Please retain your proof of purchase for warranty claims.

### 7.2 Customer Support

For technical assistance, troubleshooting, or warranty inquiries, please contact Active Pixel customer support:

- **Customer Care:** 9321367328
- **Importer/Packer:** Glorious Digital Solution Pvt Ltd, Mumbai, India