



**Powerology**

## **Outdoor Camera with 360° Dual Lens and 4G WiFi**

SKU: PPBCHA69-Bk

# **Table of Contents**

Overview	2
Specifications	2
Package Contents	3
Schematic View	3
Application Scenarios	4
Setup Instructions	4
App Connectivity	6
Configuration and Adding 4G Devices	6
Configuration and Adding WIFI Devices	8
App Instructions	10
Real-Time Monitoring and Playback	13
Control Instructions	16
Intelligent Tracking and Linkage	18
System Settings	19
Wall Mount Installation	25
Ceiling Mount Installation	25
Adjustments	26
FAQ	26
About Batteries and Solar Power	28
4G Technical Data	28
Warranty	30
Contact Us	30

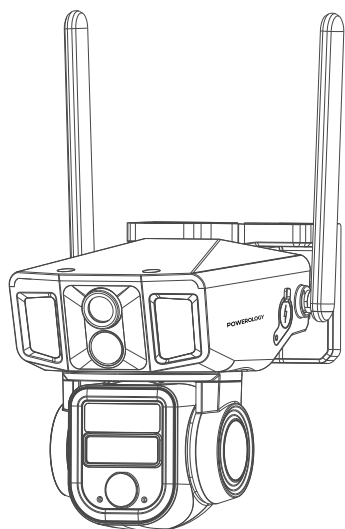
## Overview

This outdoor camera features a dual perspective system, capturing pan, tilt, and zoom for comprehensive surveillance coverage. It offers up to 10x zoom capability, enabling users to easily spot details from a distance. The camera is equipped with powerful bullet lights for improved visibility at night, ensuring clear footage even in low-light environments. With an IP66 rating, it is waterproof and dustproof for reliable use in harsh weather conditions. The solar power recharging feature allows for continuous power supply without the need for traditional charging methods. Additionally, the built-in siren alarm provides an extra layer of security by sounding when intruders are detected.

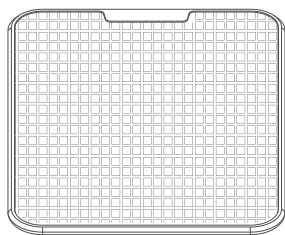
## Specifications

Image Sensors	3x 2MP HD CMOS Sensors
Audio Input	Built-in 38dB Microphone
Audio Output	Built-in 422W Speaker
Video Storage	Cloud / 128GB Micro SD (not included)
WiFi	2.4GHz 802.11b/g/n
Solar Panel Wire	2.4m
Power Supply	4x 12000mAh rechargeable batteries, 9W Solar Panel
Power Adapter	5V/2A USB Charger
4G Bands	B1, B3, B7, B20
Standard	IP66

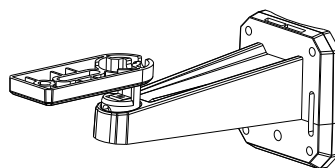
# Package Contents



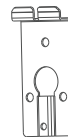
1 Camera



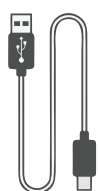
2 Solar Panel



3 Solar Panel Bracket



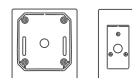
4 Iron Wall Bracket



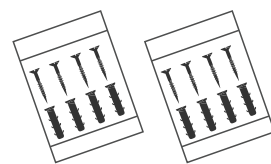
5 Type-C Charging Cable



6 Hexagon Wrench

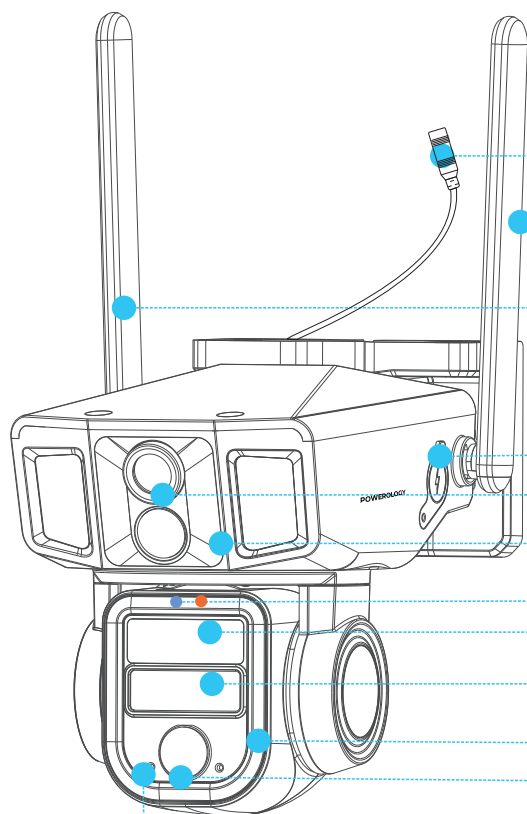


7 Drilling Positioning Stickers



8 Screw Packs

## Schematic View



Microphone

Solar Panel Connection Cable

4G Antenna

WiFi Antenna

Charging Interface

Wide-Angle Lens

PIR

Status LEDs

Infrared LED

ZOOM Lens

White Light

PIR

Power Switch  
Reset Button

TF Card  
SIM Card

4G and WiFi Switch

# Application Scenarios

## [A] Power Supply

No external power supply required. Please position the solar panel to face maximum sunlight exposure.

## [B] Camera Installation

Depending on the environment, install the camera with a wide-angle lens for general monitoring or a PTZ lens for detailed observation.

## [C] Operation

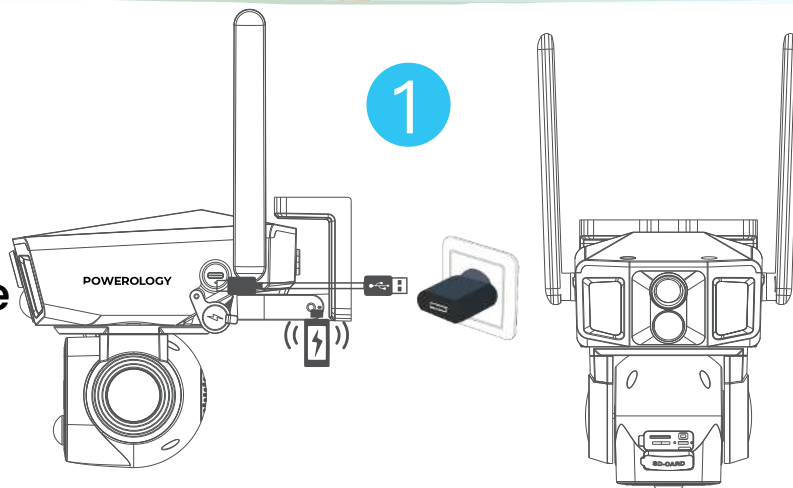
The device allows simultaneous viewing and control of two displays, offering a wiring-free setup and multi-angle monitoring without any blind spots.



# Setup Instructions

## Charging Recommendation:

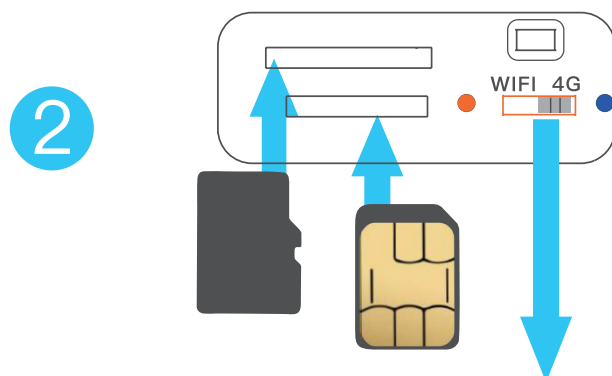
For optimal performance, charge the camera for 10 hours before first use.



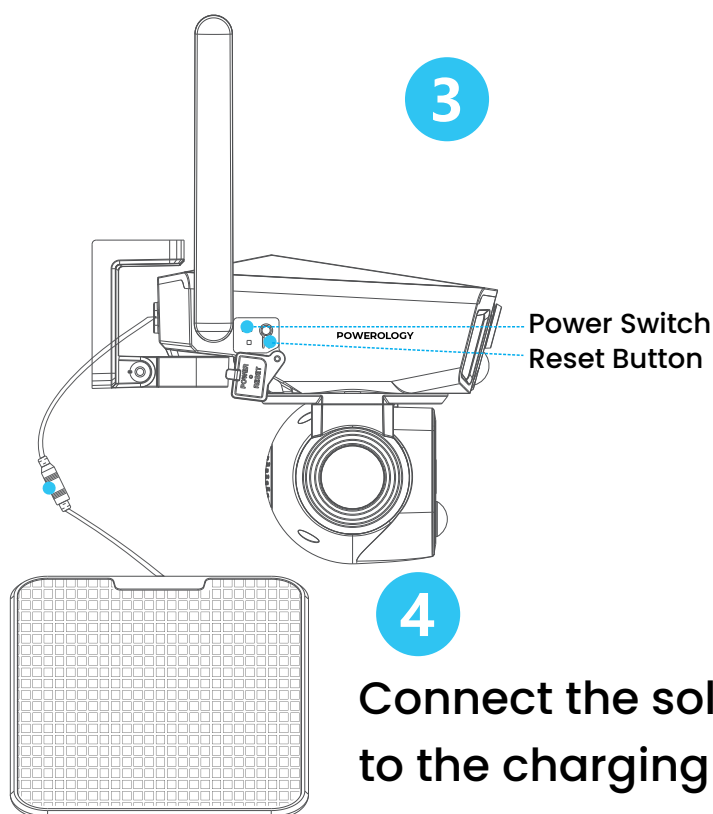
Please insert the 4G nano SIM card and memory card.

**Attention:**

- \* Ensure the notched side of the 4G SIM card faces up.
- \* The memory card should be inserted with the chip facing down.



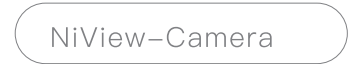
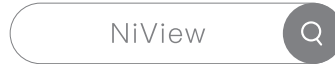
- \* The camera supports both a default 4G network and WiFi.
- \* Use the dip switch to select between WiFi (left) and 4G (right).
- \* After changing settings, power OFF and then ON the camera to reconfigure network settings.
- \* Connect the solar charging cable.
- \* The power button is a self-locking switch. Press once to turn on the power, and press again to turn it off.
- \* After powering on, press and hold the reset button for 5 seconds to prepare the camera for network pairing.



Connect the solar panel to the charging port.

# App Connectivity

Scan the QR code or search for and download the app named "NIVIEW" from Google Play or App Store



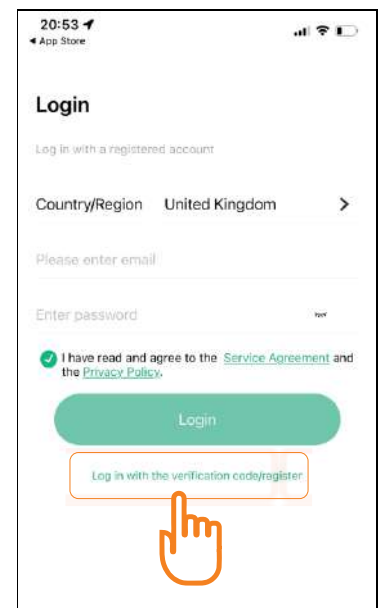
## Configuration and Adding 4G Devices

### [1] Registration


\* For an improved user experience and enhanced device protection, we recommend first-time users select the verification code method for registration.

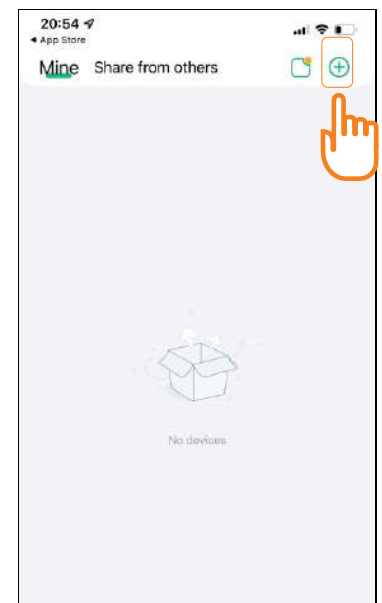
\* Use your email address to register your account through the app, and create a password to ensure confidentiality.

\* Use your account and password to log in.



### [2] Add Camera

Open the app, then click the  icon in the upper right corner to add a new camera



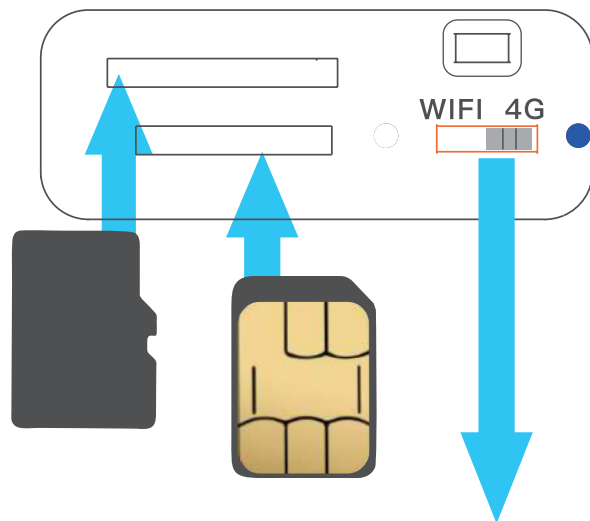
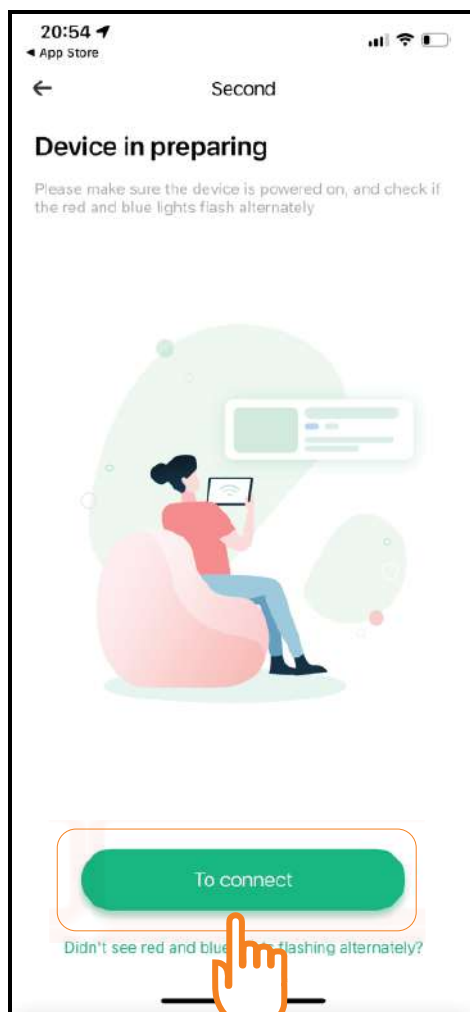
### [3] Choose Network Type

Select the 4G option on the right.



### [4] Confirm Camera Status

- \* Follow the on-screen prompts to check if the indicator light on the front of the camera flashes alternately between red and blue.
- \* If the indicator flashes red and blue alternately, click "To connect".



The camera supports two types of network connections: 4G and WiFi. By default, the camera is configured to connect via 4G. If you need to switch the connection to WiFi, please refer to the next page for detailed instructions.

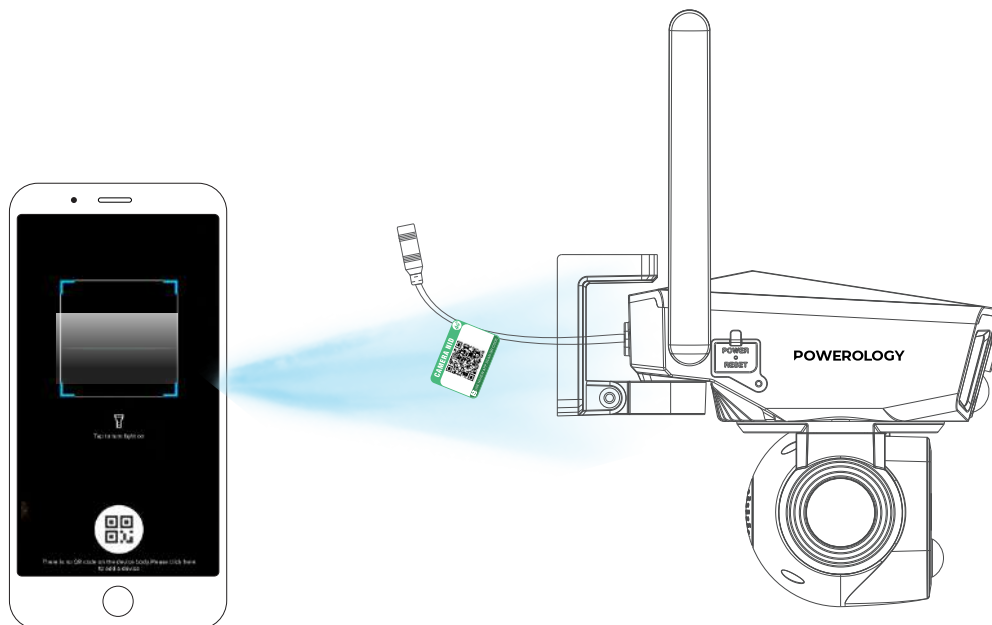


## [5] Scan the QR Code

\* Scan the camera's QR code located on the device.

**Note:** The QR code is affixed to the back of the device.

**Note:** If the product tag is missing, scan the QR code below.

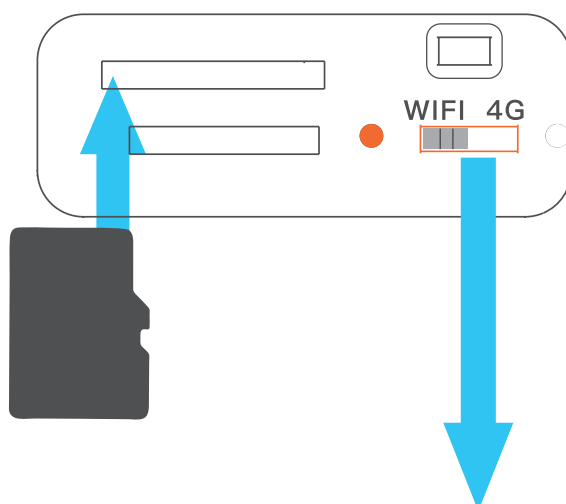


## Configuration and Adding WIFI Devices

### [1] Confirm Camera Status

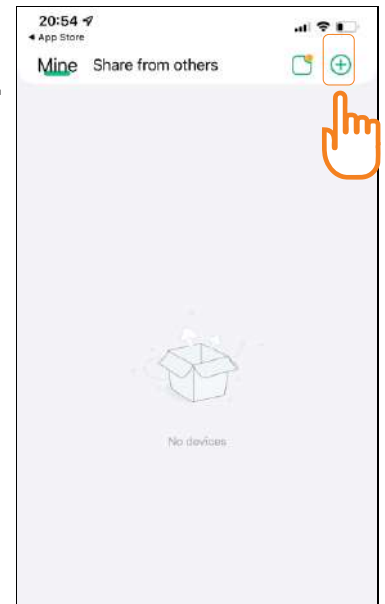
\* Follow the on-screen prompts to verify if the indicator light on the front of the camera is flashing alternately in red and blue.

\* If the indicator light flashes alternately in red and blue, click "To connect".



## [2] Add Camera

Open the app, then click the  icon in the upper right corner to add a new camera.



## [3] Choose Network Type

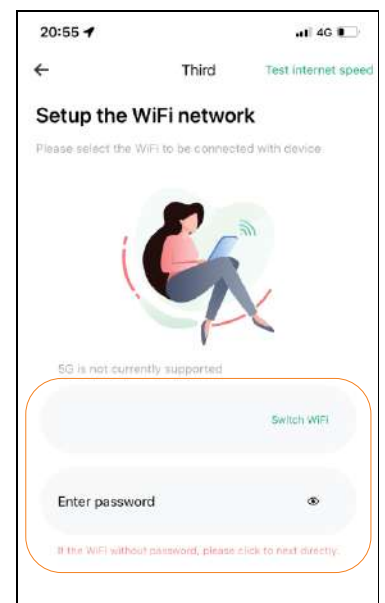
Select the WIFI option on the left.



## [4] Enter Network Information

\* Click "Switch WiFi" to select your home WiFi SSID and enter the password in the field provided.

**Note:** To avoid input errors, after entering the password, you can click the eye icon on the right to verify that the password is correct.



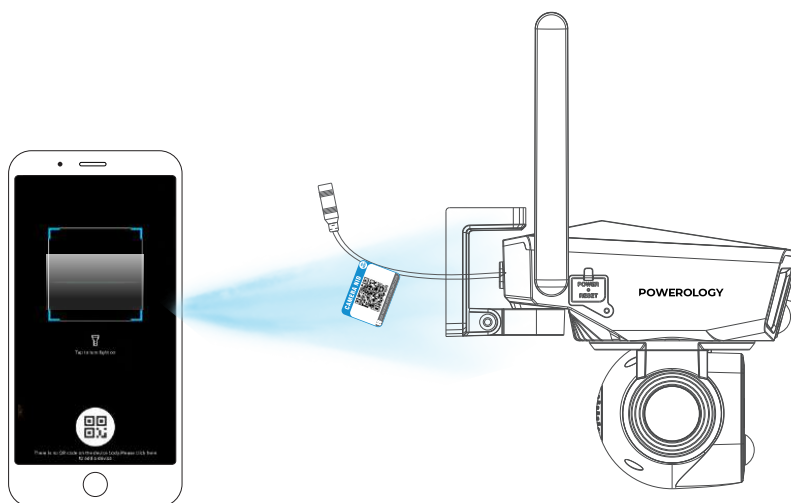
## [5] Scan QR Code to Add Devices

\* Scan the QR code on the camera body, and click "connect" when you hear the mobile phone's scan prompt. The app and the camera will automatically connect to the network.

**Notice:** For devices running iOS versions below iOS 11, a manual connection to the camera's hotspot network is required.

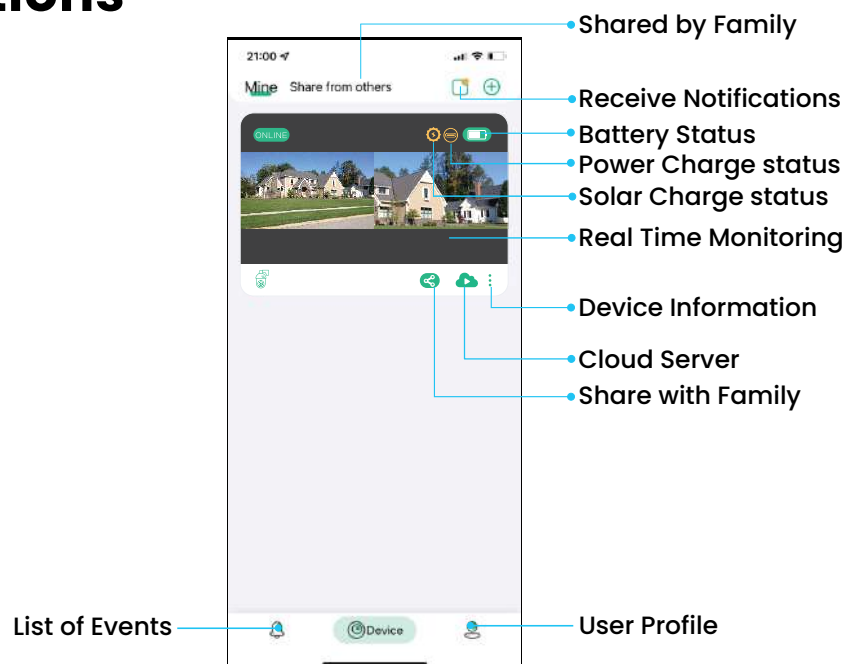
\* Follow the app prompts, go to the phone's settings, and connect to the hotspot starting with "NIVIEW\_XXXXX." Once connected, return to the app to complete the network configuration.

**Note:** If the product tag is missing, scan the QR code below.




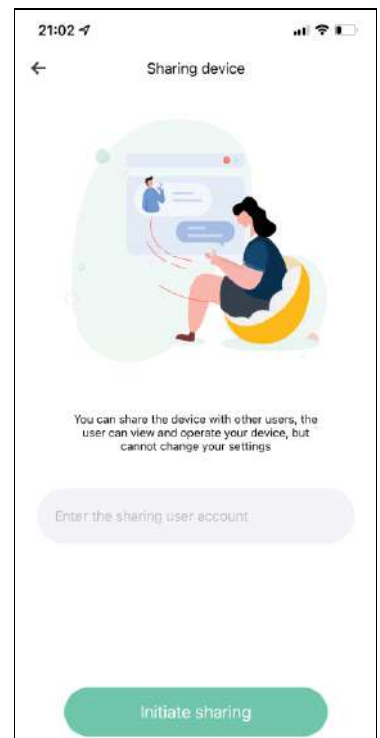
## App Instructions

### [1] Homepage




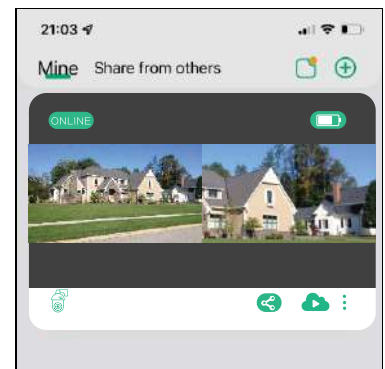
## [2] Sharing Function

Once your family members have registered their accounts, click the share icon  to share the device with them.



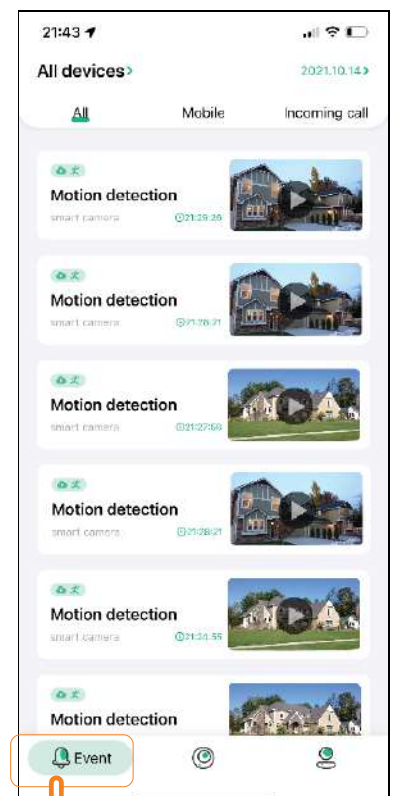
## [3] Do Not Disturb Mode

- \* At the top of the page , enter the Do Not Disturb mode settings.
- \* When PIR (Passive Infrared) is triggered, you will receive real-time notifications.
- \* If you prefer not to receive notifications, you can activate Do Not Disturb mode.




## [4] Viewing the Event List

Click "Event" at the bottom of the page to access the event list and view the alarm history of the device.

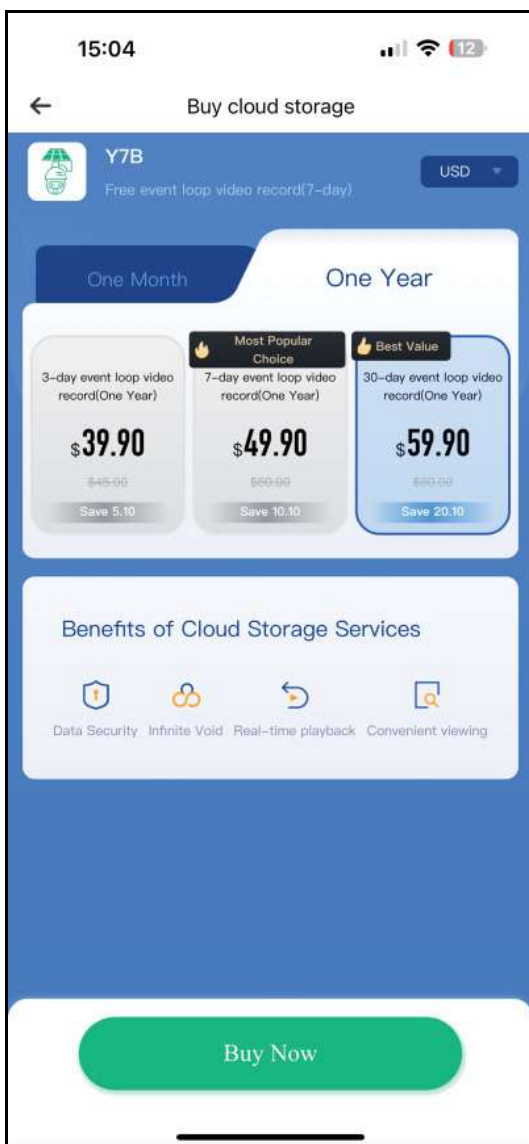


## [5] Cloud Storage Service

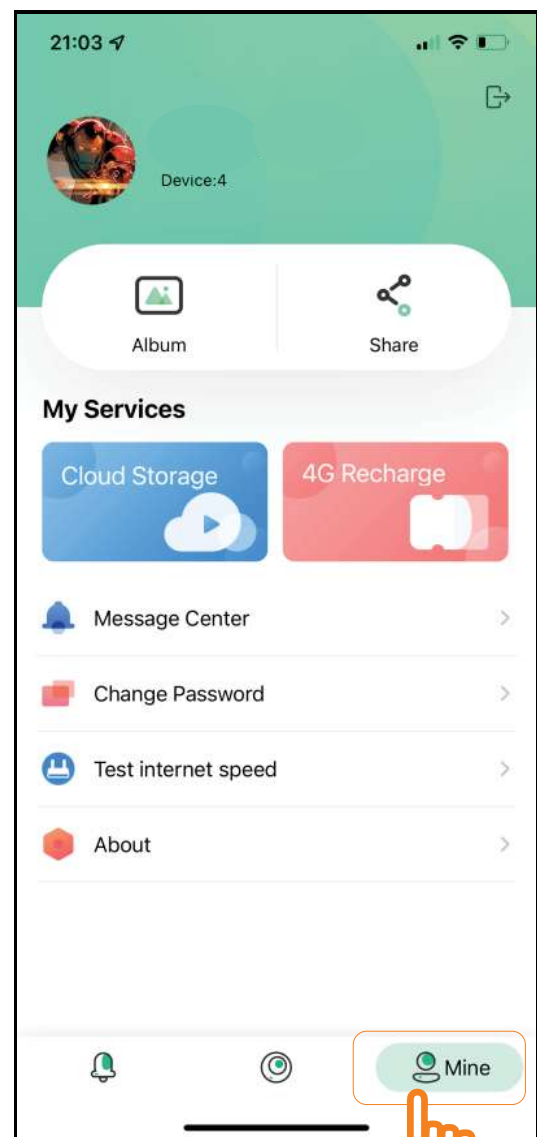
Click the cloud icon  on the home page to purchase cloud storage packages.

## [6] Manage Account Information

Step: Click "Mine" at the bottom of the page to access the app settings. From there, you can modify your login password and manage all available functions.



5



6

# Real-Time Monitoring and Playback

## [A] Real-time Monitoring

Click on the screen from the homepage to access the real-time monitoring feature.



- Setting
- Alarm manually
- Return

- Zoom Bar

Finger Tracking Function: Tap anywhere on the wide-angle screen, and the close-focus monitor below will respond by displaying detailed monitoring.

- Hidden Zoom Bar


- Screen preview

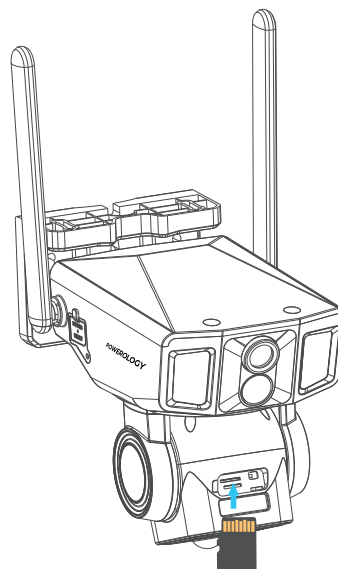
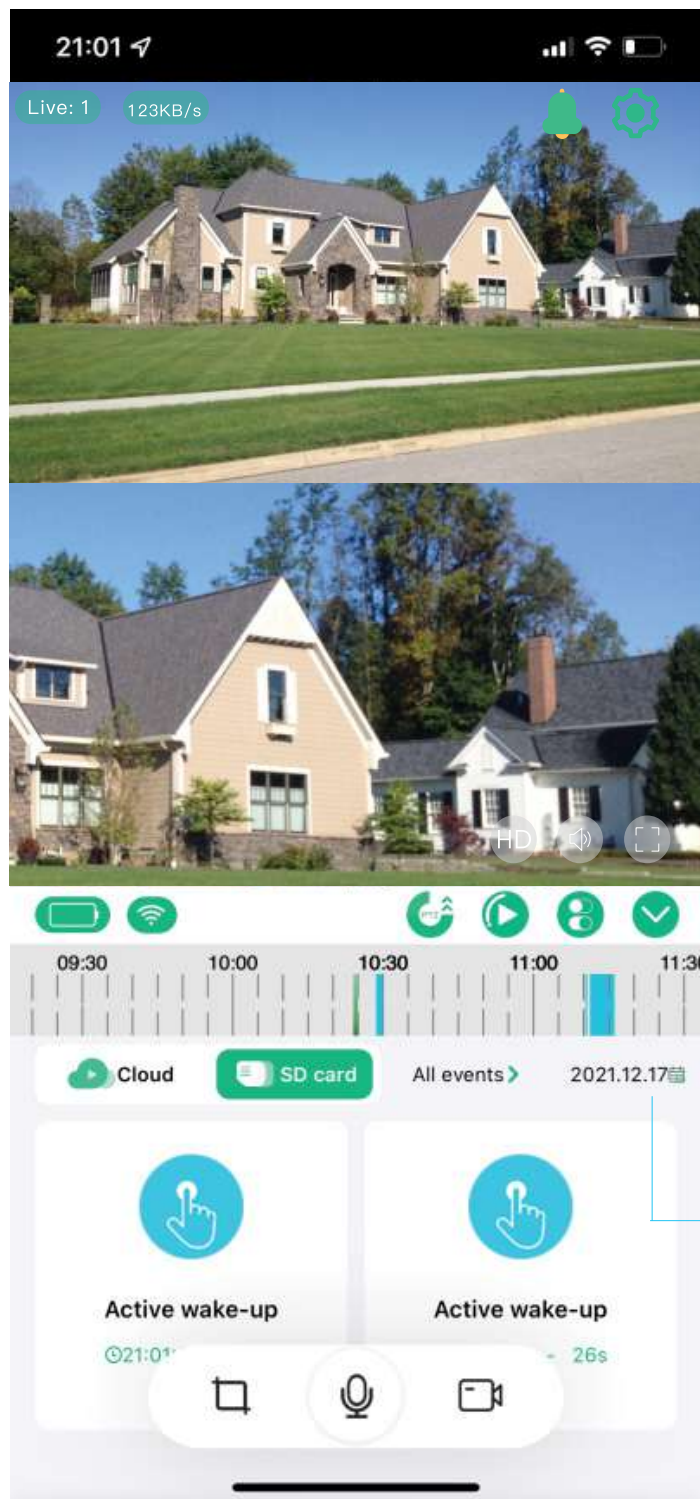
- Full screen

- Pull up to control menu
- Screen recording
- Screenshot
- Intercom



## [B] Video Playback of Memory Card


Click the video playback button  on the homepage of the pull-up control menu to enter playback mode. Select "memory card playback" to view recorded videos.

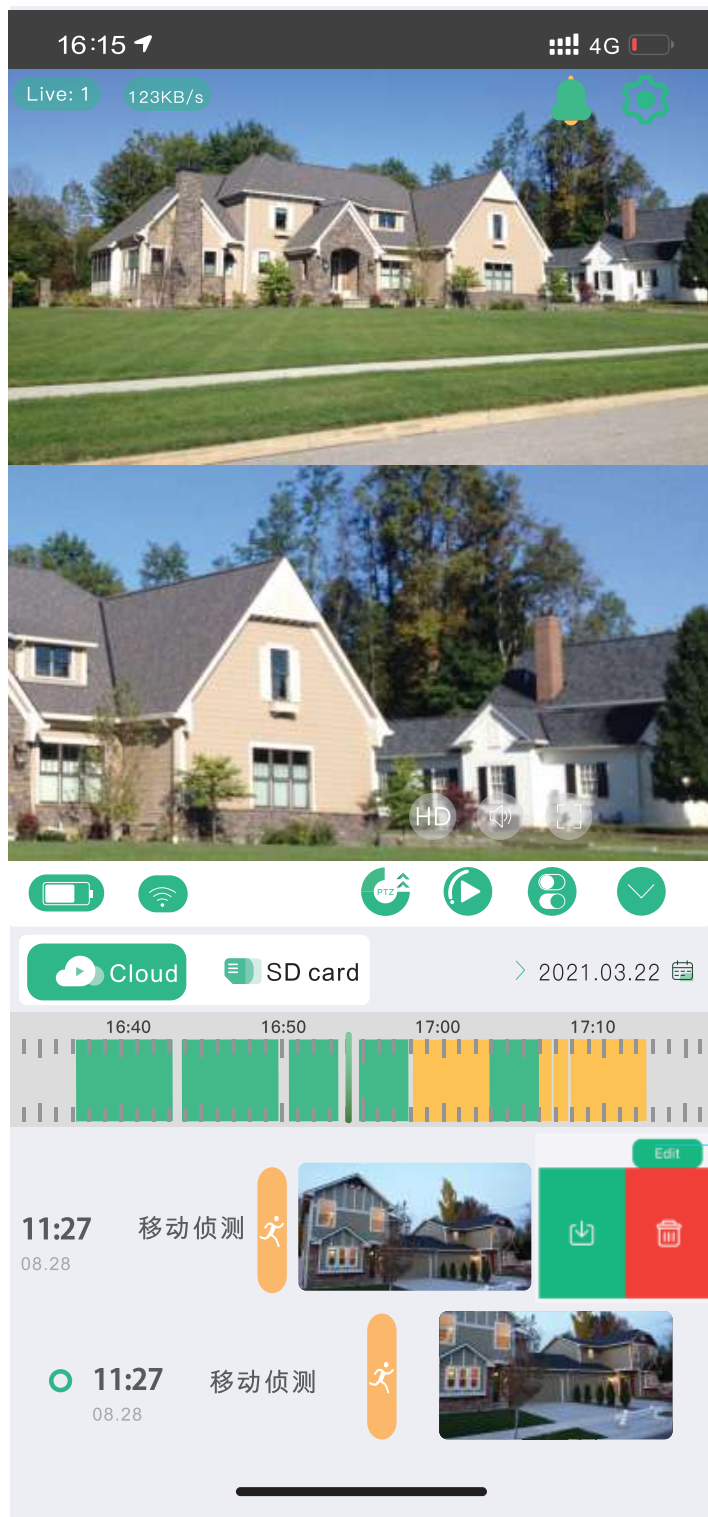


1. The TF card should be installed in the slot located in the back cover.
  2. Ensure the contact points of the card are facing upward when inserting.
- Note: If the card is inserted but no videos are available, please navigate to the storage settings and format the memory card.

- Select the playback time and adjust the precision of the time axis as needed.
- Choose the specific date for playback.
- View the list of recorded events.

## [c] Video Playback of Cloud Storage

Click the video playback button  on the homepage of the pull-up control menu to enter playback mode, then select "cloud storage playback".




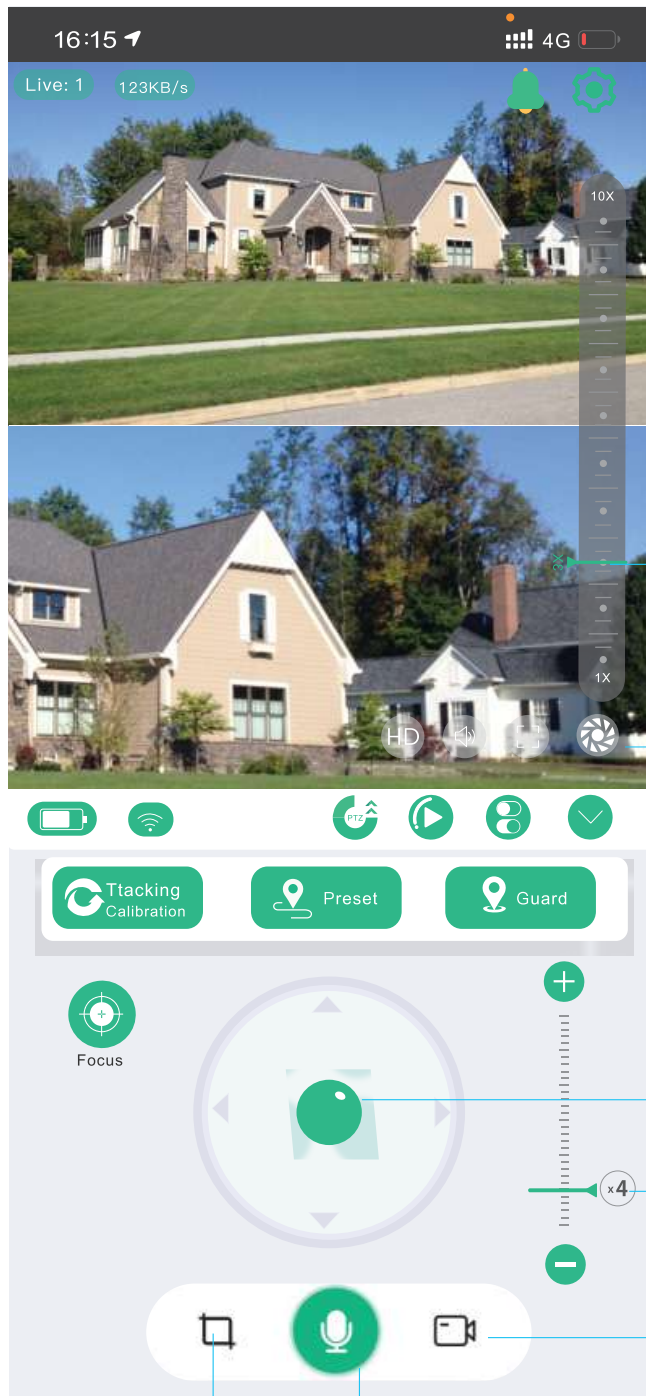
Click on the edit icon or swipe left to download from or delete the cloud storage data.



# Control Instructions

## PTZ Control

- \* Open the pull-up menu to access the control page.
- \* Click the PTZ control icon  to operate the PTZ camera.



Zoom Bar

Hidden Zoom Bar

Pan/Tilt Rotation Control

Zoom

Screen Recording

Screen Shot

Real-time Intercom



### **[A] Tracking Calibration**

When there is a misalignment in the rotation direction of the camera's pan/tilt, click the reset button. The camera will automatically detect and calibrate the pan/tilt position.



### **[B] Set Preset Position**

If multiple fixed points are needed for monitoring, you can control the PTZ to move to the desired location. Save this position as a preset for quick and easy access in the future.

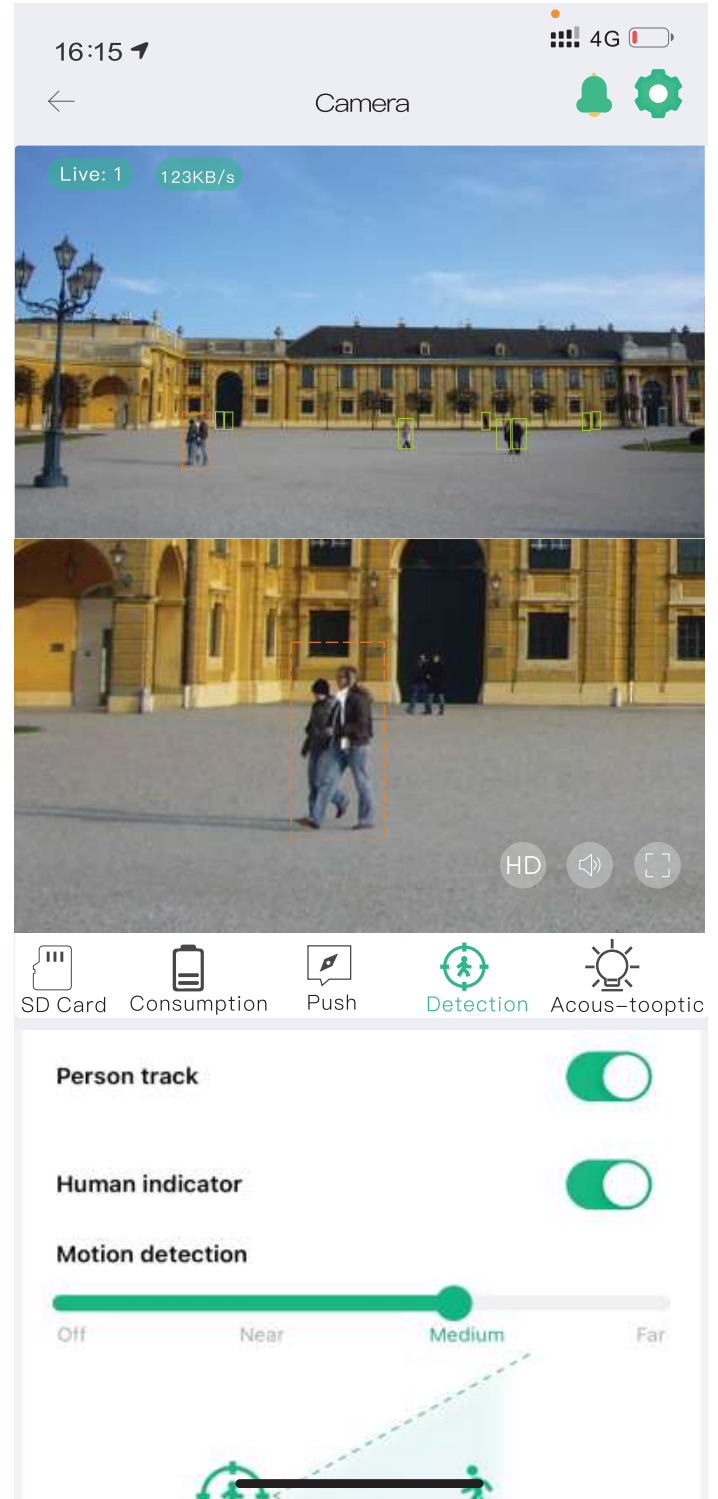
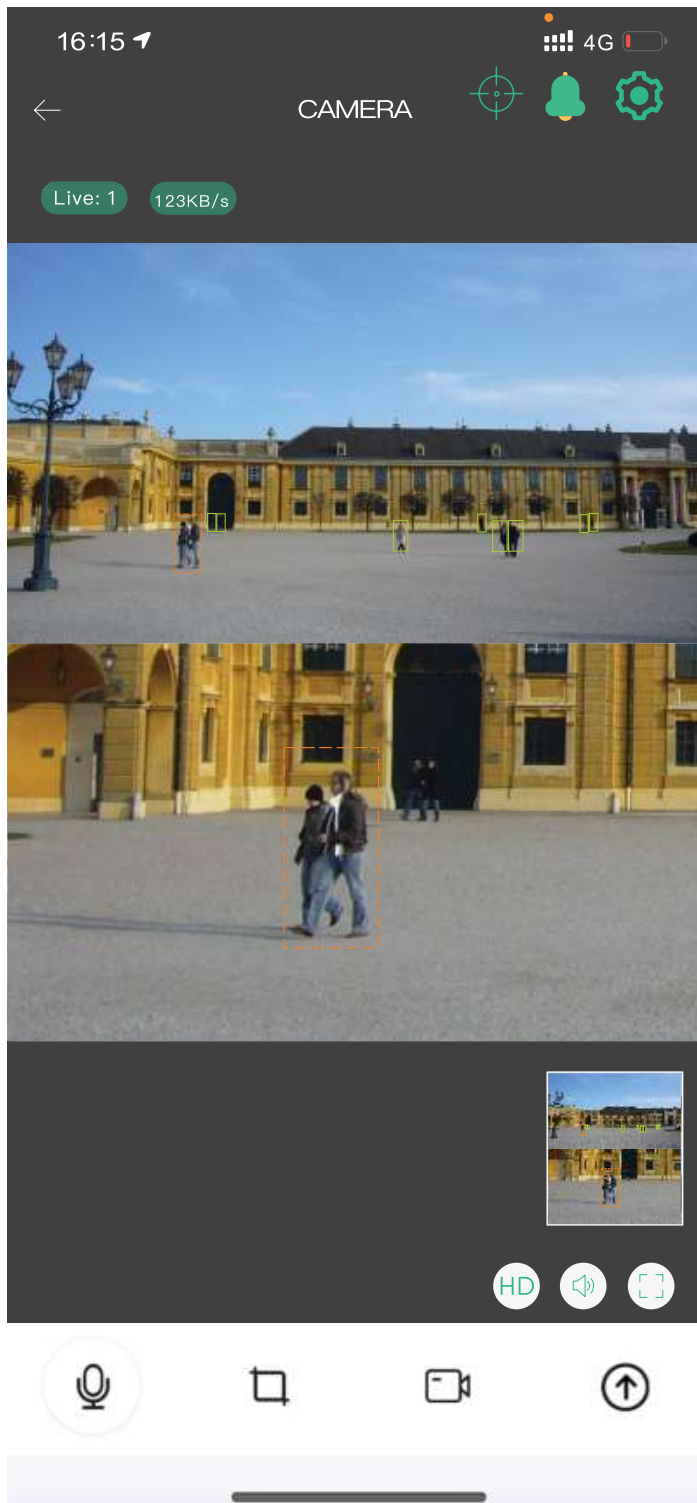


### **[c] Guard (Human Tracking)**

When human tracking is enabled, the camera will follow the movement of a person. Set the guard position to ensure that a key area is always monitored. To set this, move the PTZ to your desired monitoring position and click to assign it as the guard point.

# Intelligent Tracking and Linkage

In the detection settings, choose to either enable or disable humanoid tracking



## [A] Finger Tracking Function

By tapping anywhere on the upper wide-angle screen, the PTZ monitoring below will automatically adjust to focus on that area.

## [B] Humanoid Tracking Function


- \* Enable the Humanoid tracking function to allow the upper wide-angle camera to detect human shapes.
- \* Upon detection, the PTZ camera will automatically engage in pan-tilt tracking.
- \* Double-clicking any position on the wide-angle screen will reposition the lower focus monitor to that point.

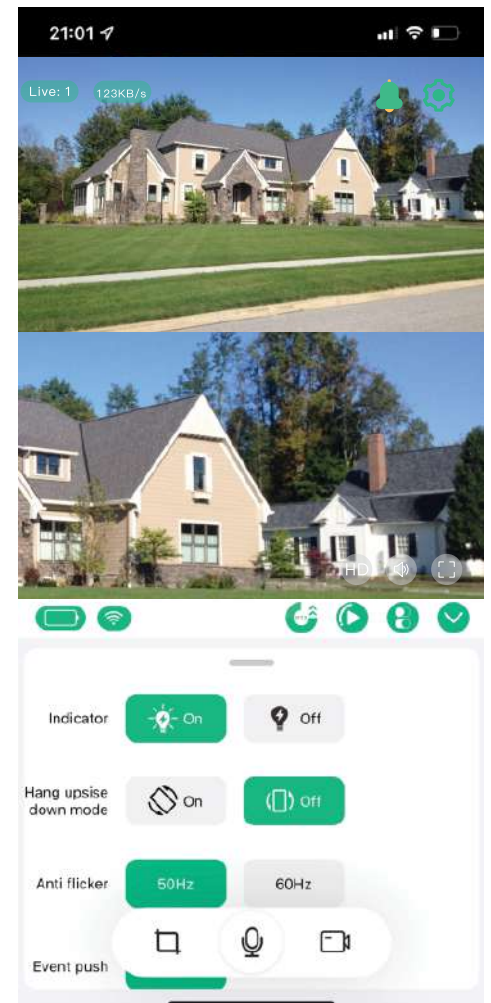
## [C] Humanoid Mark

When a person is detected within the monitoring range, a highlight frame will appear around the individual to indicate active tracking.

## System Settings


### [1] Quick Settings

Step: Click the gear icon  to access the camera's quick settings menu.




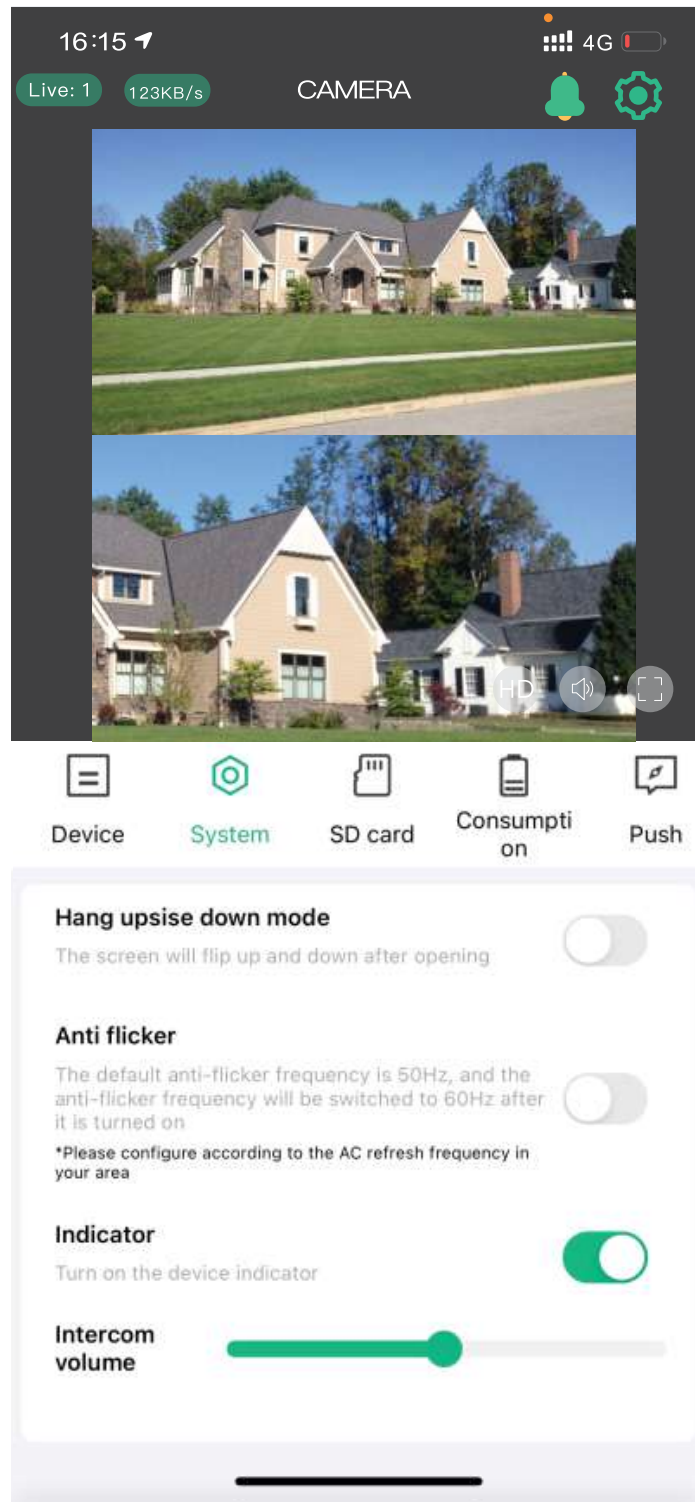
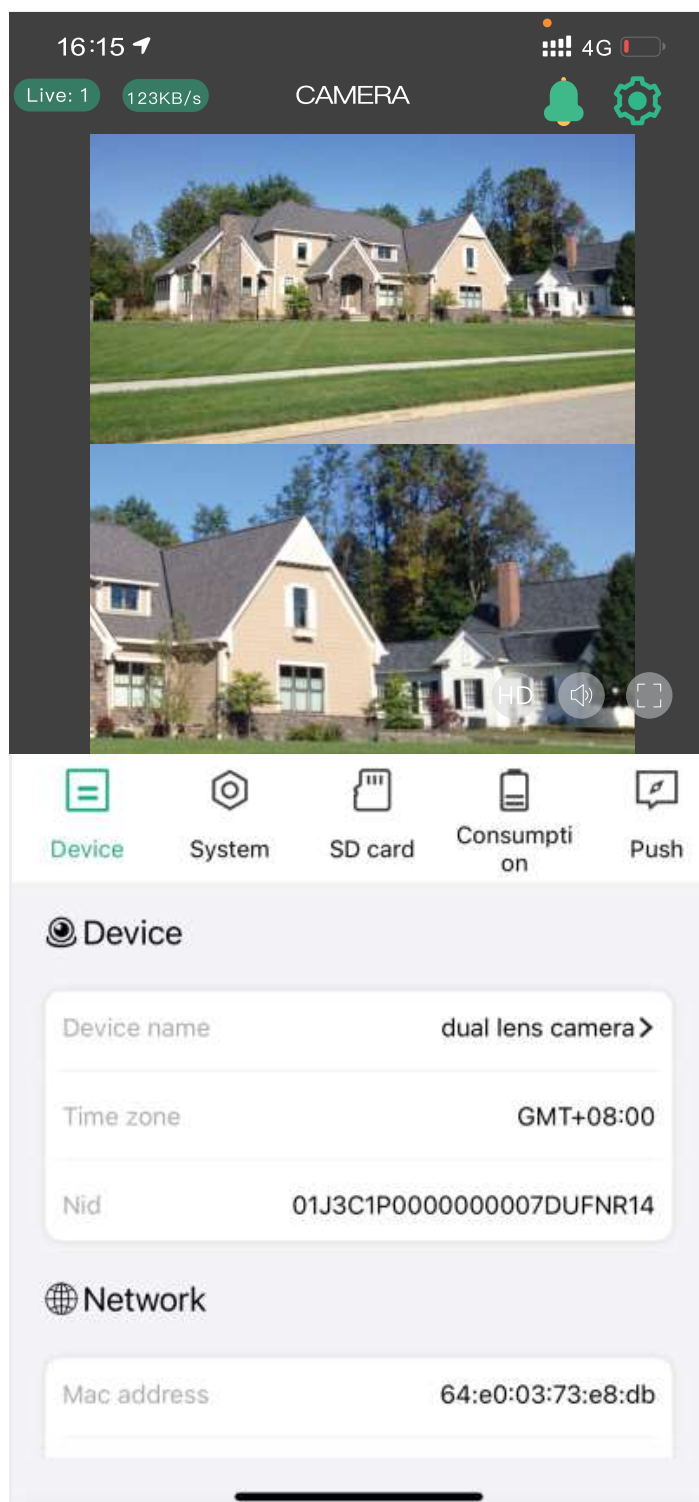


## [2] Device Information


Click the menu icon  to enter the device information section where you can check the firmware version and perform upgrades.

## [3] System Settings


Step: Click the settings icon  to enter system settings where you can modify the camera's display mode and other system configurations.

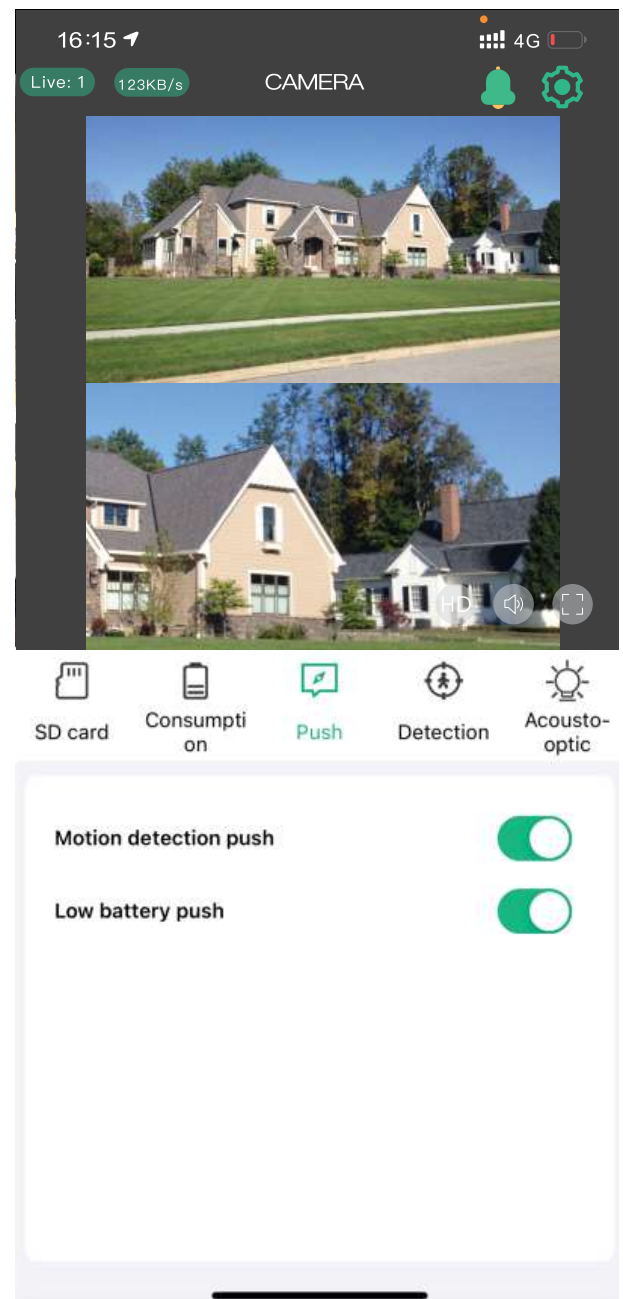
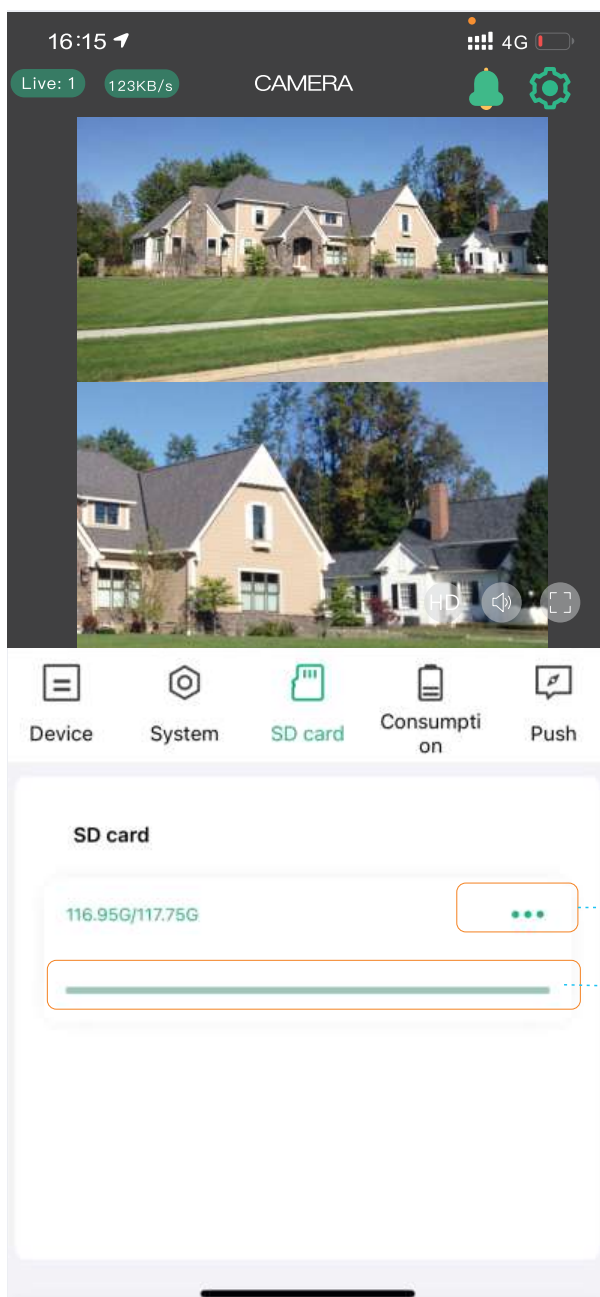


## [4] Memory Card Settings


Step: Click the memory card icon  to access memory card settings. From here, you can check its usage status and format the card if needed.

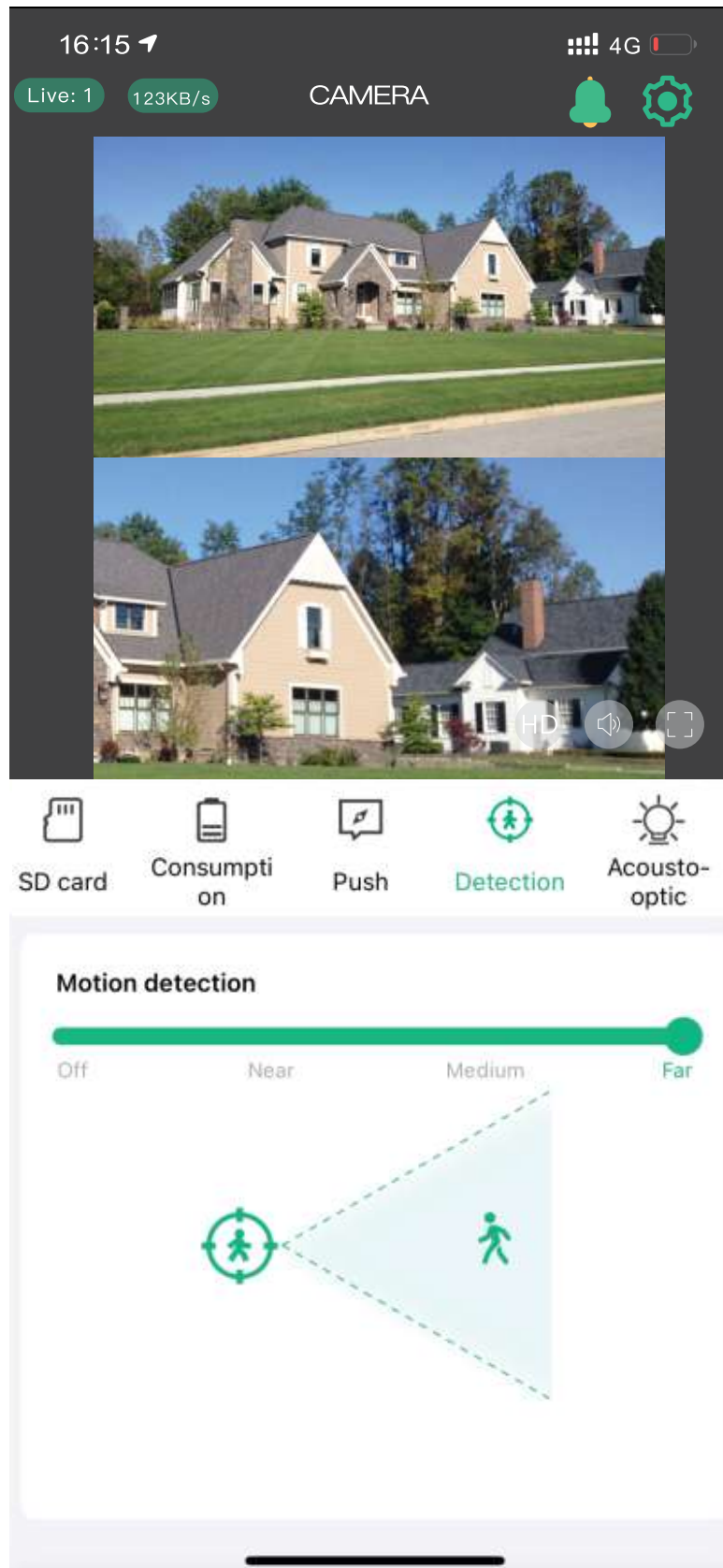
## [5] Alert Push Settings

Step: Click the alert icon  to enter the camera's push notification settings. Select the type of information you wish to receive according to your preferences.



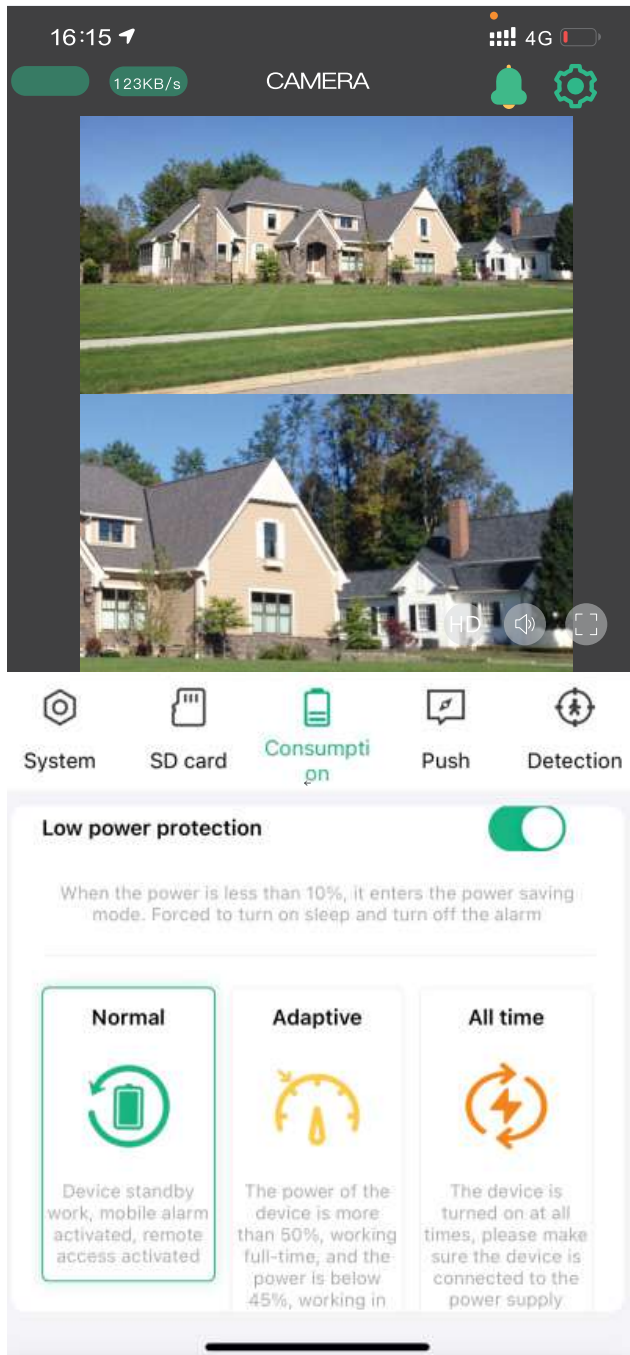
## [6] Detection Settings

Step: Click the detection icon  to access the camera's motion detection settings. You can adjust the sensitivity and detection distance from this menu.



## [7] Power Consumption

Step: Click the battery icon  to access power management. Select the appropriate usage mode based on the environment and your needs to optimize battery usage.



### [A] Low Power Protection

It is advised to enable this feature. When the camera's power drops below 10%, the system will automatically disable PIR and other high-power functions.



### [B] Normal Mode

This is the most energy-efficient operating mode. When the mobile phone is not actively monitoring the camera, the device enters standby mode. Upon detecting human movement, the camera will automatically trigger the alarm, record video, and send notifications to the mobile app simultaneously.



### [C] Adaptive Mode

When the battery level exceeds 50%, the camera will record continuously. If the power drops below 40%, the camera will switch to standby mode.




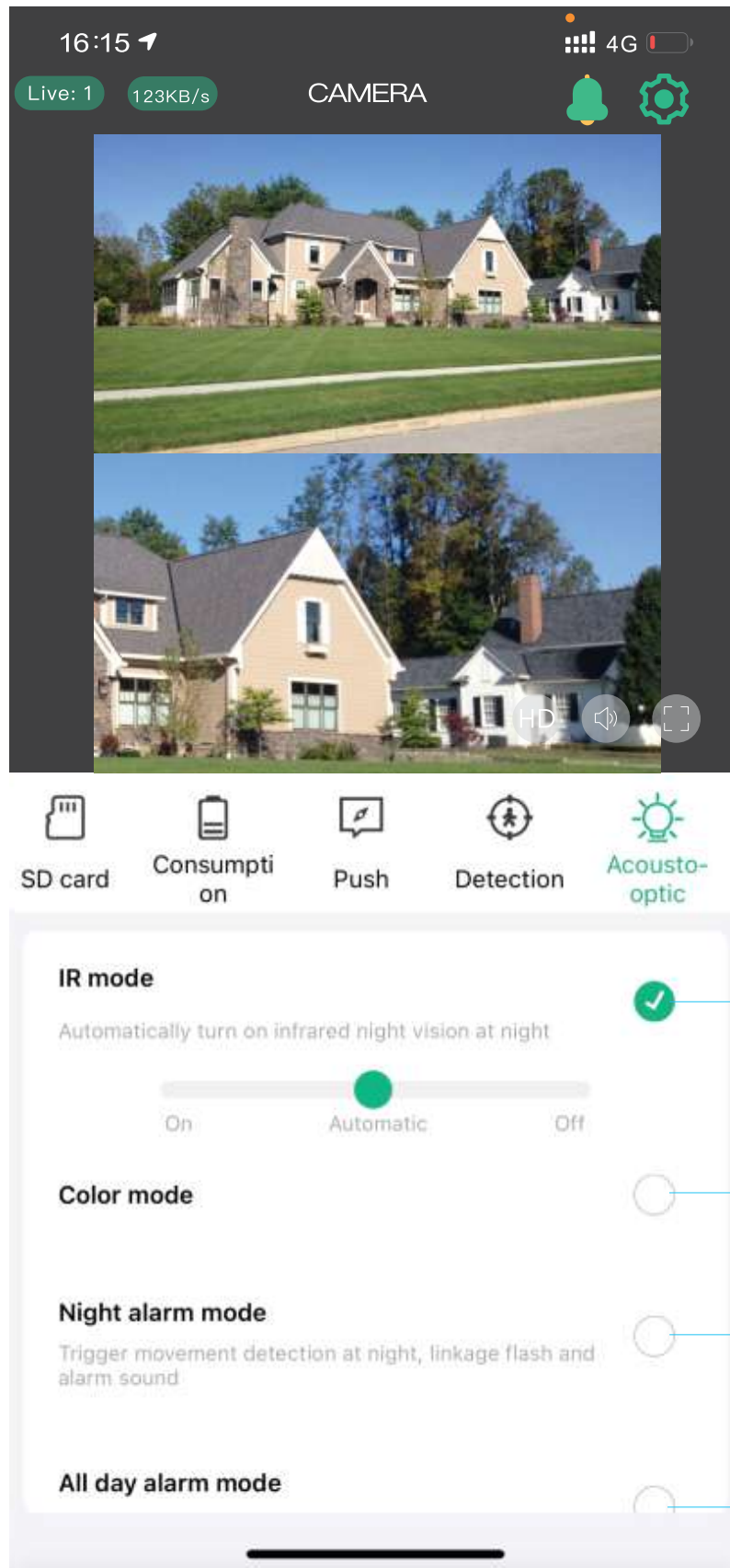
### [D] All-Time Mode

The camera operates continuously in this mode. Ensure that the power supply is connected to keep the device charged while in use.



## [8] Sound and Light Settings

Click the light icon  to access the camera's sound and light settings. You can configure the working modes for the infrared LED, white lights, and the alarm.



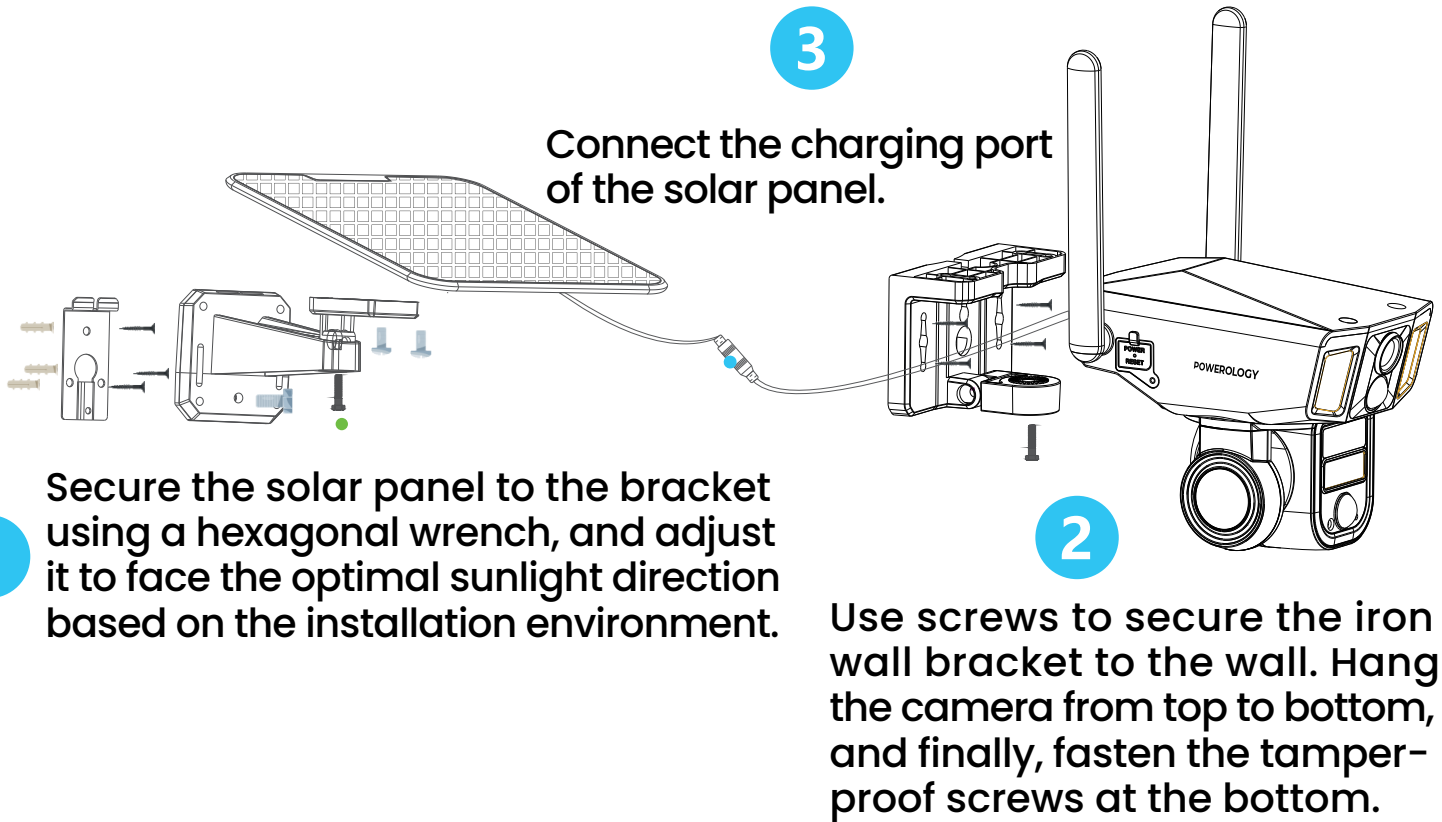
Manage the settings for infrared LEDs.

White lights activate at night, providing full-color video.

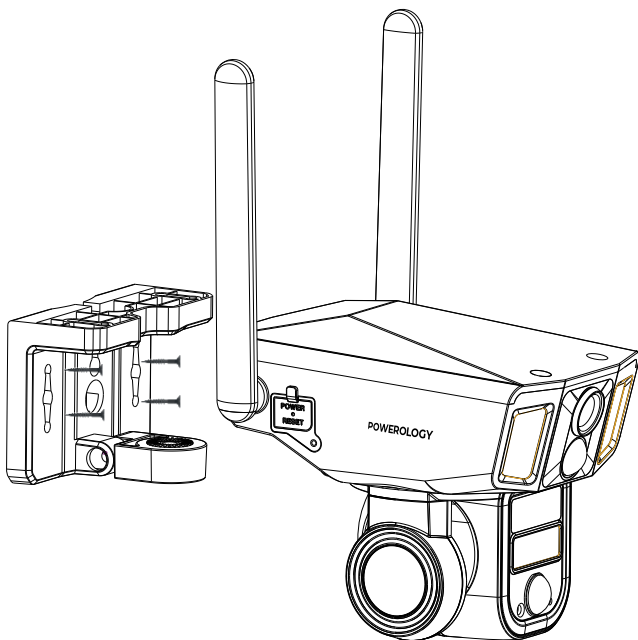
When motion is detected at night, the white lights flash, and the alarm sounds.

All-Day Alarm Mode: In this mode, whenever motion is detected throughout the day, the white lights flash, and the alarm sounds.

## Wall Mount Installation



## Ceiling Mount Installation



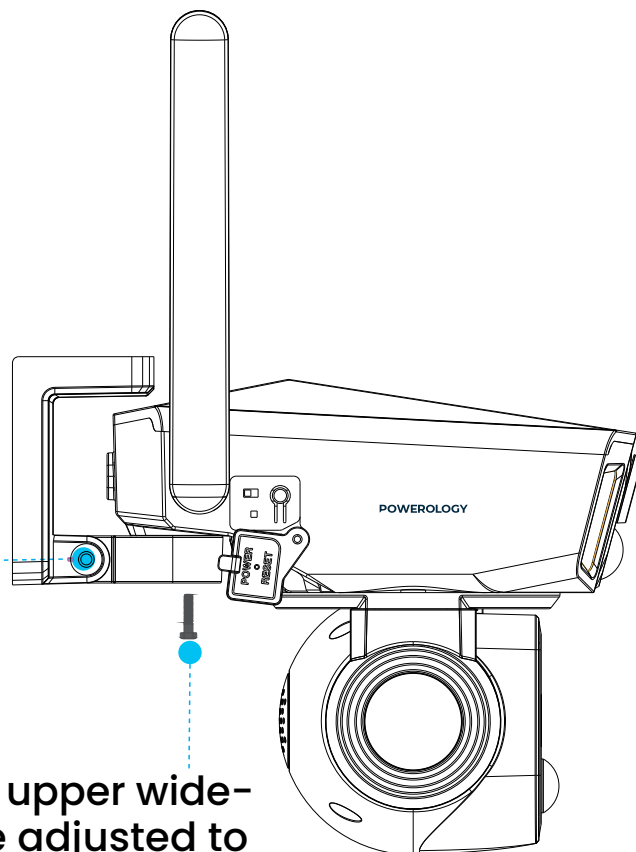
### 1 Wall Mounting



### 2 Attaching the hoist

## Adjustments

After adjusting the tilt angle of the wide-angle camera, tighten the thumbscrew to secure the lens in position.



The horizontal direction of the upper wide-angle camera bracket can be adjusted to the left or right. Once positioned, secure it by tightening the positioning screw.

## FAQ

**1.** Will the camera show red lights when night vision is activated?

**Answer:** The built-in infrared LEDs emit a faint red light when night vision is activated, but the image quality remains clear even in complete darkness.

**2.** What is the longest recording time?

**Answer:** The camera operates in three modes:

The default mode is low-power consumption mode. When motion is detected, the camera records for 15 seconds. As long as the person remains within the monitoring range, the camera continues recording. The built-in battery can handle 6,000 wake-ups, and solar energy provides an additional 250 wake-ups per hour. In theory, this mode allows for continuous operation.

The second mode is adaptive mode. When the battery level is above 50 %, the camera records continuously for up to 24 hours. If the battery drops below 45%, it switches to low-power mode, recording for 15 seconds when motion is detected, continuing as long as the person stays in the monitoring area.

The third mode is full-time mode. This requires a continuous power supply. Without power, the camera can operate for up to 36 hours at full battery capacity.

### **3.** How do I check video playback?

**Answer:** To view video playback, click the video playback button on the homepage of the pull-up control menu. You can select either memory card playback or cloud storage playback.

### **4.** What happens when the memory card is full?

**Answer:** When the memory card runs out of space, the oldest footage will be overwritten by the latest recordings. Make sure to back up important videos regularly or delete unnecessary footage to free up space. Alternatively, you can subscribe to a cloud storage plan.

### **5.** How many cameras can I connect to the same account?

**Answer:** You can add up to 50 cameras to one account, but for an optimal experience, we recommend connecting no more than 10 devices.

### **6.** Why am I not receiving push notifications on my mobile device?

**Answer:** Ensure that you have allowed the NIVIEW app to send push notifications to your mobile device.

### **7.** How many accounts can a camera share with?

**Answer:** The camera can be shared with up to 8 accounts.

## About Batteries and Solar Power

This camera utilizes advanced low-power technology. If no motion is detected, the camera enters sleep mode. Once fully charged, a camera equipped with a 12,000mAh battery can be activated 3,000 times by detecting human movement. When charged by solar power, under full sunlight, the replenished energy supports 300 wake-ups per hour.

**Tips:** If the camera frequently detects movement or is woken up often, the power consumption will increase. Regular charging is recommended. The camera's battery can withstand up to 500 charging cycles. If the camera is charged once a week, the battery life can extend to more than 9 years.

## 4G Technical Data

The recommended operating temperature range for the camera is 14°F to 122°F (-10°C to 50°C). At lower temperatures, battery performance may decrease. For example, at -4°F (-20°C), the battery may drain quickly or may not charge at all. The camera will resume normal function as the temperature increases.

This device adapts to different 4G versions based on the country of operation. The BAND specifications for each version are as follows:

Region	Frequency Bands
China	Support China Telecom, China Mobile, China Unicom LTE FDD:B1/B3/B5/B8 LTE TDD:B34/B38/B39/B40/B41 WCDMA:B8/B5/B1
Europe	FDD:B1/3/5/7/8/20 TDD:B38/40/41 WCDMA:B1/5/8 GSM:1800/900/850Mhz

North America	FDD:B2/4/5/12/13/17/66/71 WCDMA:B2/4/5
Japan	FDD:B28/1/3/8/11/18/19/21/26 TDD:B41 WCDMA:B1/6/8/19
Latin America	FDD:B1/2/3/4/5/7/8/28/66 TDD:B38/40 WCDMA:B1/2/5/8 GSM:580/900/1800/1900Mhz
Europe Australia	FDD:B1/3/5/7/8/20/28 TDD:B38/40/41 WCDMA:B1/5/8 GSM:580/900/1800Mhz

## **Warranty**

Products that you buy directly from our **Powerology** website or shop come with a 24-month warranty.

The 24-month warranty applies to products purchased directly from our **Powerology** website or store. If **Powerology** products are bought from any of our verified retailers, then the product is eligible for only a 12-month warranty. To extend your product's warranty, visit our website **[powerology.me/warranty](https://powerology.me/warranty)** and fill in your details in the provided form along with an uploaded picture of the product to process your request. Once approved, you will receive a confirmation email of the extended product warranty. Upload the required information within 48 hours of purchase to be eligible for a 24-month warranty period.

For more info, please check:  
**[powerology.me/warranty](https://powerology.me/warranty)**

## **Contact Us**

If you have any questions about this Privacy Policy, please contact us at: **[hey@powerology.me](mailto:hey@powerology.me)**

Website: **[powerology.me](https://powerology.me)**

Instagram: **[powerology\\_official](https://www.instagram.com/powerology_official)**

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