

# Instruction MANUAL

## 4G Cloud Trail Camera



V1.1

Pls scan QR codes below to download APP  
for remote control functions of 4G cloud model.



For IOS APP



For Android APP

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# 1. Quick Start

## 1.1 What in the Box?

Trail camera x 1

Instruction manual x 1

USB cable x1

Mounting strap x1

Antenna x1



## 1.2 How to Get the Camera Ready?

### 1. Insert the batteries (not included)

Open camera house and insert the batteries as electrodes marked in battery case.

Note: 12AA Alkaline or Ni-MH are recommended. For better performance, pls choose the “Battery Type” of the batteries in using.

### 2. Insert the SD card

Note: 4~32GB SD card is recommended. Please insert it with correct direction as marked.

### 3. Mount the Antenna & Insert SIM card

## 1.3 How to Setup the Camera?

### 1. Power on the Camera & Configure Camera Settings

Switch to SETUP, screen will light up. Press MENU key, you will enter the menu to view & change settings. Please press arrow keys for navigation and OK key to confirm settings.

Default settings are preferred. Please refer to page 2 for default settings in red letters.

Press the MENU button twice will return you to the opening screen.

To test the camera operation - When in the SETUP mode hit the OK Button then hit the OK button again and it will transmit an image to your APP. This may take 35 to 45 second based on signal strength. Screen should show message = send successful.

### 2. How to Connect the Camera to Network?

Put the 4G SIM card into cloud camera, then camera has a signal “Searching” process when you switch the power key to SETUP.

It may take a minute or two to acquire a cellular network.

Once acquired the signal strength indicator will show on the screen. Once the signal has been acquired slide the button to ON to start sending pictures when motion is detected.

Two bars of signal strength are required for the camera to function well.

If camera comes with a pop-up “SIM Auto Match failed...”, please go to the Menu, “SIM Auto Match” under “4G”, select “Manual”, and fill in local operator APN details in “Manual Setup”, the camera will connect to network to send photos.

### 1.3 Camera Default Settings in Red Letter

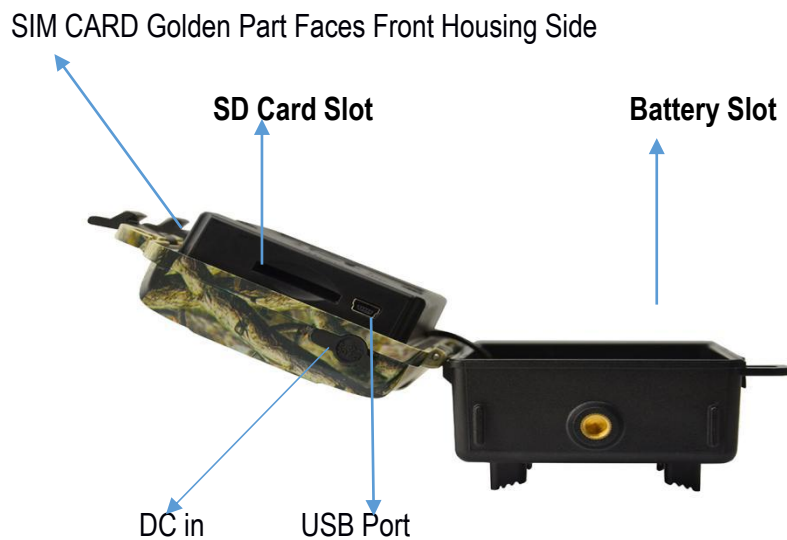
Cam	PIR	Other
<b>Image Size</b> 8MP/12MP/24MP	<b>PIR Switch</b> ON/OFF	<b>Language</b> English/...
<b>Multi-Shot</b> IP/2/3/4/5P	<b>PIR Sensitivity</b> High/Middle/Low	<b>Stamp</b> ON/OFF
<b>Night Mode</b> Balanced/Min. Blur/Max Range	<b>Delay</b> OFF/ON	<b>Battery Type</b> Alkaline/Ni-MH
<b>Flash Power</b> High/Low	<b>Time Lapse</b> OFF/ON	<b>Frequency</b> 50Hz/60Hz
<b>Cam ID</b> OFF/ON	<b>Timer 1</b> OFF/ON	<b>SD Cycle</b> ON/OFF
<b>Max Num/Day</b> Unlimited/01-99	<b>Timer 2</b> OFF/ON	<b>Password</b> OFF/ON
<b>4G Setup</b> Auto/Manual	<b>Remote Control</b> OFF/Real Time/ Delay0.5/1/2/3/4/6/12/24H	<b>Reset</b> No/Yes
		<b>FW Update</b> Software/ Module
		<b>QR Code</b> Only appear when camera with SIM card inside
		<b>About</b> Ver, IMEI, MCU, MOD

## 2. Whole View and Details of Camera

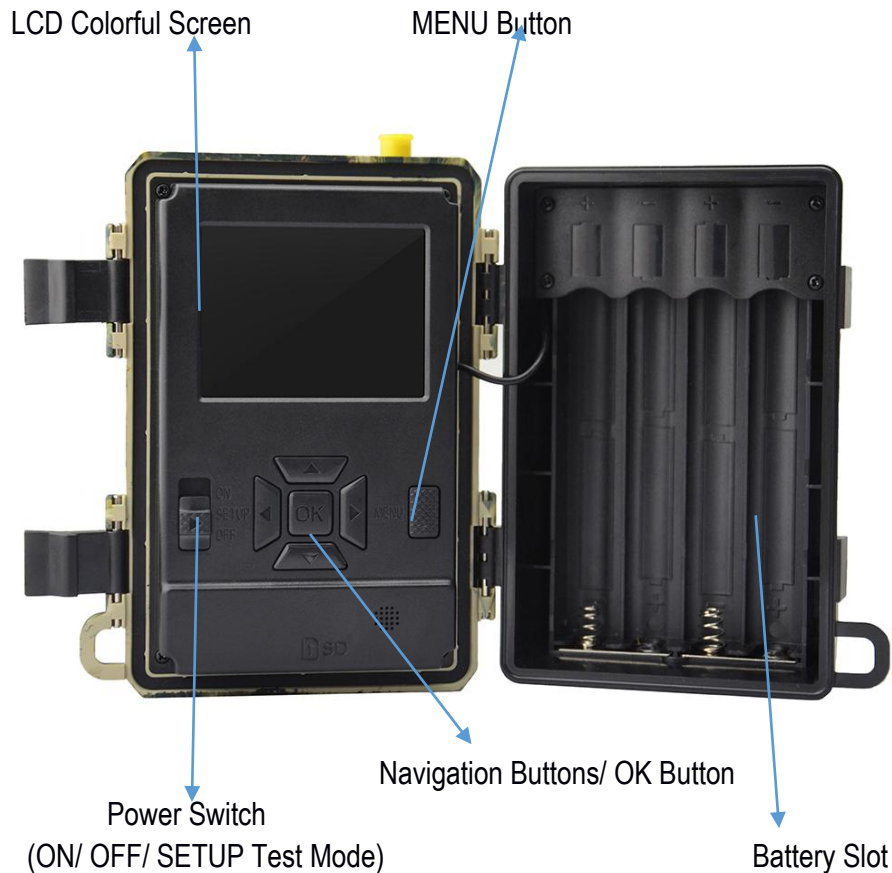
### 2.1 Figure 1: Front View of Camera;



### 2.2 Figure 2: Bottom View of Camera;



## 2.3 Figure 3: Internal, Side and Back View of Camera



## 3. Introduction

With contents in previous pages, believe you've already got a brief idea about how this camera works. Before more details presented, here we want to thank you for choosing one of our easy operation highly qualified products. You now may enjoy the excellence reflected on this series product. This 4G cloud trail camera was totally R&D by our diligent and smart engineers based on feedback and requirements from customers globally. May you also enjoy and adore this product as we do. And our company is always open-minded with willing to adopt creative ideas from you.

### 3.1 Fully Functionality Introduction

The 4G Cloud camera is aimed to offer you a durable quality product with many extraordinary features, like **pre-installed SIM card**, viewing image in the APP, free remote control APP (IOS & Android), 20 meters (65 ft) invisible real night vision ability, 0.4 seconds trigger time, and 1 photo/sec (up to 5 photos per trigger) multi-shot to capture the whole track of object & user friendly operational menu & setup.

## 3.2 Power Supply

### 9-12V power supply to ensure camera well performance of all functions

#### A. Batteries

Camera runs on 8AA size batteries, can work with alkaline and high-quality NiMH rechargeable batteries. But we suggest to run camera with NiMH batteries only as performance of alkaline batteries is much poorer than NiMH batteries. Pls also choose the battery type you're using in the menu option "Battery Type" to reach longer operation time.

Batteries should be inserted with correct electrode position as marked in battery case. Upside down batteries electrodes may cause device malfunction. Also, we strongly recommend changing the batteries when power icon on camera screen or photo stamp is empty.

**Note: Don't mix batteries types! Different batteries to be used in camera may cause permanent damage which also violates warranty policy!**

Due to different settings, objects activities within camera detection zone, different brands and quality of batteries, and using environment, etc; we're not able to list out exact number of photos that camera can achieve. So given table below only shows approximate number of photos camera can take with 8AA alkaline batteries; better performance can be given by 8AA rechargeable NiMH batteries.

4G OFF_8AA Alkaline Batteries		
Photos shot per day		Working time
IR LEDs On		
Max.Range	100 pics	45 days
Balanced	100 pics	43 days
Min.Blur	100 pics	41 days
IR LEDs Off		
Photo	100 pics	56 days

#### B. Solar Panel

To bring users better using experience, our engineers designed this camera to be able to work with most standard 12V/2A lithium battery build-in solar panels. Solar panel can't charge the batteries in using in camera batteries cases.

#### C. Power Adaptor—Security Surveillance Purpose

This camera can also be powered by an external 12V/ 2A DC adapter. Recommend to remove the AA size batteries when power adaptor is used. Electrical power is recommended for security purposes.



### 3.3 SD Card Selection

Using a memory card is required to operate the camera. When the camera is "ON" and no memory card is used, the screen displays "No card". The SD slot of the camera has a 32 GB memory capacity. Before inserting or removing the memory card, the camera must be turned "OFF". Failing to do so may cause loss of or damage the pictures already recorded from the memory card. When the SD card is full, the viewing screen shows "Memory Full". The following data shows an approximate quantity of photos which can be recorded by the camera depending on the memory card capacity.

Chart below will show you the approximate capacity of different size SD cards. Pls check to see which size card can fit your needs best.

<b>SD Size Capacity</b>	<b>4 GB</b>	<b>8 GB</b>	<b>16 GB</b>	<b>32 GB</b>
<b>Photo (pictures)</b>				
<b>5MP</b>	2104	4238	8476	16952
<b>8 MP</b>	1445	2910	5816	11632
<b>12 MP</b>	735	1480	2957	5914

### 3.5 USB Connection

When camera is connected via USB cable; screen display "MSDC", press "Menu" once, "MSDC" turns to "PC Cam", camera now can be used as a PC camera; press "Menu" again, camera exits PC camera mode.

### 3.6 Attention

1. Insert the SD memory card correctly, camera does not support SD card hot swap (insertion).
2. Use high-quality AA batteries in order to prevent battery cells from corrosion of leaked acid.
3. Use right adaptor (12V/2A) of this camera to supply power, and do not invert the electrode when put in batteries.
4. In Test mode, camera will automatically power off in 3 mins if there is no keypad touching.
5. Don't interrupt power supply during firmware upgrade, please deliver it back to factory if the device doesn't work after upgrading.
6. Do not frequently insert or pull out SD card and battery or plug in and out the adaptor when the camera is on.
7. Do not have any floating objects, such as leaves, strings, or ribbons in the 3M motion detection zone of cameras, to avoid mistaking photograph.
8. Do not keep camera next to hot irrelevant objects, air conditioner exhaust vents, and light, etc. to avoid mistaking photos.
9. Camera is with a 58° FOV lens and 60pcs IR LEDs. To ensure IR LEDs can give enough flash that high quality AA batteries must be applied accordingly to deliver enough amperage to power the illuminator consistently in dark environments.
10. Camera functions best when 4 to 6' off ground. Any lower the motion sensor does not function well. Motion detection functions out and down - not up and out.

### 3.7 Key Features

1. **0.4 seconds** trigger speed;
2. Regular lens model: **58° FOV lens; 52° PIR angle;**
3. Programmable **8/12/24** Megapixel high-quality resolution;
4. **60pcs invisible IR LEDs**, offer 20 meters (65 feet) real night vision distance;
5. Clear day & night photo quality;
6. **1 photo burst per second to get full moving track of object;**
7. Support multiple functions: adjustable PIR sensitivity, Multi-shot (1~5 photos per trigger), programmable delay between motions, Time Lapse, Timer, stamp of (camera ID, date/time, temperature, moon phase) on each photo;
8. Available operation temperature: -25°C to 60°C;
9. Built-in **2.4"** TFT color screen;
10. With 4G function, camera can transmit photos to APP.
11. Optional small size (640\*480) or large size (2560\*1920) Thumbnail photos ; Small thumbnail image is the default setting and consumes approx. 45kb of data. Large thumbnail image consumes approx. 300kb of data.
12. APP is available in iOS&Android APP stores.

## 4. Operation List

### 4.1 Photo Playback

Turn "Power Switch" to SETUP position to enter test mode, press arrow button "↑" to enter Playback; press "←" and "→" for selection, "OK" to play photo.

- 1) Press button "↑" again to exit.
- 2) In Playback Mode, press "Menu" button to delete files, or format SD card; press "Menu" again to exit.

### 4.2 Delete

- a. Delete one: delete selected photo;  
Press "OK" to choose, press "↑" and "↓" for selection, "Yes" to confirm, "No" to exit to previous page.
- b. Delete All.

### 4.3 Format of SD Card

- a. No
- b. Yes: to format SD card via camera.  
Press "←" and "→" for selection, "Yes" to confirm, "No" to exit to previous page.

### 4.4 Auto Power Off

In Test mode, camera will automatically power off in 3 mins if there is no keypad touching. Please manually turn ON it as if you want to do some further configuration.

**Note:** camera stay in "Test" mode if camera is in Menu configuration pages.

## 4.5 Operation Menu

Test mode, Press “Menu” once to enter camera setting menu; to navigate setting interface by pressing “←”, “↑”, “→”, or “↓”, press “OK” for selection, “Menu” to exit to previous page, and “Menu” to switch alpha/ digits/ symbols.

**Note: For some settings, user needs to press “Menu” to save & exit the configuration after pressing “OK” to confirm; (Cam ID, Deley, Time Lapse, Timer, Password)**

Cam	PIR	Other	Cam	PIR	Other	Cam	PIR	Other
Image Size		8M	PIR Switch		ON	Language		En
Multi-Shot		1P	PIR Sensitivity			Stamp		ON
Night Mode		☀	Delay		OFF	Battery Type		ALK
Flash Power		High	Time Lapse		OFF	Frequency		50Hz
Cam ID		OFF	Timer1		ON	SD Cycle		ON
OK	Set	MENU Exit	OK	Set	MENU Exit	OK	Set	MENU Exit

Cam	
Settings	Programmable Options
Image Size	8MP (3264x2448), 12MP (4032x3024), 24MP (5632x4224)
Multi-shot	Programmable 1~5 photos per trigger
<b>Night Mode</b>	a) <b>Min. Blur:</b> Short exposure time to minimize motion blur for better image quality; shortened IR flash range; b) <b>Max. Range:</b> Longer exposure time to extend IR flash range for better night vision; lower image quality; c) <b>Balanced:</b> combination of above 2 options;
Flash Power	High/Low (strength of IR LEDs light will be different under different mode)
Cam ID	Select “ON”, press “OK”, to set 12 digits/ alphabets for each camera. Such function can help user to identify photos are from where and which camera.
<b>Max Num/Day</b>	Default: unlimited; Optional: 1~99 i.e.: user chooses 50, then camera will only send (Photos) 50 times every day. Each time, camera will send to APP. All the rest photos upon triggers will only be stored in SD card.
4G Setup	<b>Auto</b> 1) Camera automatically connect to network when the SIM card is inserted; 2) If "SIM Automatch failed, pls enter setups manually" pops up on camera screen, pls switch “Auto” to “Manual” mode, and enter 4G APN in “4G Setup”; <b>Manual Setup</b> Enter the operator’s 4G APN, the Username and Password. Note: Only when 4G APN correctly added, the network will start to work. Note: it’s not a must to enter Username and Password of APN. But some operators may require this password access to enable 4G function. For

	details, pls contact your local operator.
<b>PIR</b>	
<b>Settings</b>	<b>Programmable Options</b>
PIR Switch	OFF/ON (4G function can be turned off and photos will not be transmitted).
Sensitivity	High, Middle, Low Higher sensitivity is 1) more sensitive to movements by smaller subjects; 2) longer detection distance; 3) easier for sensor to detect difference between body heat and outdoor temperature; 4) easier to trigger camera to record. In <b>high temperature</b> environment, body heat of subjects and environment temperature is hard to tell by camera.
Delay	Select "ON", press "OK", to set a time interval that you desire between photos upon motion. This option keeps the camera from taking too many photos. <b>Example:</b> Camera will wait 1 minute between photo recordings <b>only when motion is occurring</b> if pre-set time interval is 00:01:00 <b>Configurable delay time:</b> 00:00:05~23:59:59.
Time Lapse	Select "ON", press "OK", to set the interval; <b>Turns off motion detection;</b> camera will shoot pics automatically upon the interval user set. <b>Configurable interval:</b> 00:00:05~23:59:59. <b>Note: Pls don't turn ON Time Lapse and Delay simultaneously!</b>
Timer1	Select "ON", press "OK", to set the time period (hour/minute); camera will only work during the time period user set <b>when motion activates</b> . i.e.: 15:00 – 18:00; camera only works during 15:00 – 18:00
Timer2	Select "ON", press "OK", to set the time period (hour/minute); camera will only work during the time period user set <b>when motion activates</b> . i.e.: 15:00 – 18:00; camera only works during 15:00 – 18:00
<b>Remote Ctrl</b>	<b>1) Delay: (Recommended mode to reduce battery consumption)</b> Camera will be able to sync setting changes and instant picture commands remotely from APP <b>upon motion triggers</b> when its remote Ctrl mode set under Delay (0.5h/1h/2h/3h/4h/6h/ 12h/24h). <b>2) Real Time: (Attention: cameras consume batteries fast under this mode)</b> The 4G module is stand-by all the time to react to remote <b>commands timely (including "Take photo now") under Real Time mode.</b>
<b>Other</b>	
Language	English...

Stamp	Imprints of programmed camera ID, moon phase, temperature, date, and time on photo.
Battery Type	Alkaline/Ni-MH ( <b>Choose the correct “type” to ensure best performance.</b> )
Frequency	50HZ, 60HZ; improper setting may cause camera screen flicker.
SD Cycle	Select “ON”, press “OK”, camera will continue to record photos by deleting earliest photos.
Password	Select “ON”, press “OK”, to enable password protection for your camera; supports 6 digits/ alphabets.
Reset	Select “Yes” to reset camera back to factory default firmware settings.
FW Update	With update firmware in the SD card, you can enter this menu to update camera firmware by confirming “Yes” in the options.
QR Code	<b>Only appear when camera with SIM card inside.</b>
About	Firmware version in camera (Version: / IMEI: / MCU:/MOD:)

## 5. Specification

Image Sensor	5 Mega Pixels Color CMOS
Effective Pixels	2560x1920
Day/Night Mode	Yes
IR range	20m
IR Setting	60 LEDs
Memory	SD Card (4GB – 32GB)
Operating keys	7
Lens	F=3.0; FOV=58°; Auto IR-Cut-Remove (at night)
PIR Angle	52°
LCD Screen	2.4” TFT, RGB, 262k
PIR distance	20m (65feet)
Picture size	8MP/12MP/24MP = 3264x2448/4032x3024/5632x4224 ( <a href="#">Transmitting image size: 640x480; 2560x1920</a> )
Picture Format	JPEG
Shooting Numbers	1-5
Trigger Time	0.4s
Trigger Interval	4s-7s
Device Serial No.	Yes
Time Lapse	Yes
SD Card cycle	ON/OFF
Operation Power	Battery: 9V; DC: 12V (optional AC power supply is Available)
Battery Type	8AA
External Solar DC-optional	12V solar charger
Stand-by Current	0.165mA
Stand-by Time	6months (12×AA)
Auto Power Off	In Setup mode, camera will automatically power off in 3 mins if there is no keypad touching.

Interface	USB/SD Card/DC Port
Mounting	Strap (included)
Operating Temperature	-25°C to 60°C
Storage temperature	-30°C to 70°C
Operation Humidity	5%-90%
Waterproof spec	IP66
Dimensions	128x96x76mm
Weight	260g
Certification	CE FCC RoHs

Specifications are subject to change without prior notice.

## 6. Trouble Shooting

### 6.1 Photos Do Not Capture Subject of Interest

1. Check the “Sensor Level” (PIR sensitivity) parameter setting. For warm environmental conditions, set the Sensor Level to “High” and for cold weather use, set the sensor for “Low”.
2. Try to set your camera up in an area where no heat resources are in the camera’s field of view.
3. In some cases, set the camera near water will make the camera take images with no subject in them. Try to aim the camera over ground.
4. Try to set camera on stable and immovable objects, i.e.: large trees.
5. At night, motion detector may detect beyond range of the IR illumination. Reduce distance setting by adjusting sensor sensitivity.
6. Rising sun or sunset can trigger sensor. Camera must be reoriented.
7. If person/animal moves quickly, it may move out of the camera’s field of view before photo is taken. Move camera further back or redirect camera.

### 6.2 Camera Stops Taking Images or Won’t Take Images

1. Please make sure that the SD card is not full. If the card is full, camera will stop taking images. Or user can turn on Cycle Recording to avoid such problem.
2. Check batteries to make sure that alkaline, or NiMH AA batteries left power is enough for camera to work.
3. Make sure that the camera power switch is in the “On” position and not in the “Off” or “Test” modes.
4. When 4G function is on, there will be around 1 minute interval for camera to send out photo before camera shooting the next photo. Pull out SIM card, camera can shoot photos continuously.
5. Please format the SD card with camera before using or when camera stops taking images.

### 6.3 Night Vision Flash Range Doesn’t Meet Expectation

1. Please check to make sure that batteries are fully charged or left power is enough;
2. “Max Range” offers better IR flash range. Given IR flash range values are based on Max Range setting; so please adjust Night Mode to Max Range for better night vision flash range;

3. High-quality 1.2V NiMH rechargeable AA batteries can also offer much better IR flash range; alkaline batteries cannot deliver enough amperage to power the illuminator consistently at night;
4. To ensure accuracy and quality of night time image, please mount camera to dark environment without any obvious light sources;
5. A certain surroundings (like trees, walls, ground, etc.) within flash range can get you better night time images; please do not aim camera to total open field where there is nothing within IR flash range to reflect flash back; it's like shinning a flashlight into sky in night, you just can't see anything; same does camera;

## **6.4 Photos Do Not Capture Subject of Interest**

1. Check the "Sensor Level" (PIR sensitivity) parameter setting. For warm environmental conditions, set the Sensor Level to "High" and for cold weather use, set the sensor for "Low".
2. Try to set your camera up in an area where there is not a heat source in the camera's line of sight.
3. In some cases, set the camera near water will make the camera take images with no subject in them. Try aiming the camera over ground.
4. Try to avoid setting the camera up on small trees that are prone to being moved by strong winds.
5. Remove any limbs which are right in front of the camera lens.

## **7. Warranty**

With great pride and full confidence in our products, we always keep our words which are given to our customers as specified warranty terms and services below. Based on a strict QC system, we initially offer all our customers **one year long time limited warranty**.

Our products are warranted against defects in materials and workmanship for a period of one year from the date of original purchase. If a defect exists, we will, at our option and to extent permitted by law will (1) repair the product at no charge using new or refurbished parts; (2) exchange the product with a functionally equivalent product that is new or refurbished. Provided the product is returned freight charge paid.

This warranty excludes damage resulting from abuse, accident, modifications or other causes that are not defects in materials and workmanship, or by someone other than our authorized technicians. This warranty only covers failures due to defects in materials or workmanship under normal usage.

To obtain warranty service, please contact us to determine the nature of problem before return the product under this warranty (with a written description of the problem and print samples) for repairing or exchanging.