

Contents

Safety and warnings	2
About the Manual.....	3
1 About the Trail camera.....	3
1.1 Features.....	3
1.2 Trail camera diagrams.....	4
1.3 Switch & Key function description.....	5
2 Start to use.....	5
2.1 Insert Nano SIM card and memory card.....	5
2.2 Insert batteries.....	6
2.3 Install antenna.....	7
2.4 Use external power supply.....	7
2.5 Mount and fix the camera	8
2.6 Power on.....	9
2.7 Change working mode.....	9
2.8 Reset.....	10
2.9 Power off.....	10
3 Use the camera.....	10
3.1 Monitoring shooting.....	10
3.2 Set up and Use APP.....	10
3.3 Matters need attention.....	15
4 Appendix.	16
4.1 Common faults and troubleshooting.....	16
4.2 4G network standard.....	18
4.3 Technical specifications.....	18

FCC STATEMENT :

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) This device must accept any interference received, including interference that may cause undesired operation.

Warning: Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment. NOTE: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

FCC Radiation Exposure Statement:

This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with minimum distance 20cm between the radiator & your body.

Safety and Warning

Incorrect use may damage the camera or cause danger.

Before use, please read and observe the following safety and warning contents carefully.

Hazards to people who are incapable of using cameras

- ◇ It is forbidden for children to use the camera alone, and can only be used by normal adults.

Electric shock and fire hazard

- ◇ If the camera is damaged or foreign objects entered, please power off the camera immediately, otherwise there is a danger of fire or explosion.
- ◇ Using an external power supply may cause electric shock or fire. Please keep the camera and power supply dry and ventilated, and do not cover with any objects.
- ◇ Do not use external power supply during thunder or lightning, otherwise it may cause electric shock or other accidents.

Use safety warnings

- ◇ It is forbidden to drop, hit, squeeze or puncture the camera.
- ◇ It is forbidden to use corrosive chemicals to clean the camera.
- ◇ It is forbidden to be close to high temperature or flammable materials.
- ◇ It is forbidden to disassemble or repair the camera by yourself.

Use, Protection and Storage

- ◇ The camera must be mounted in a firm place.
- ◇ The camera has a rainproof function and can be used outdoors.
- ◇ The camera cannot be submerged. It is forbidden to immerse the camera in water.
- ◇ It is forbidden to use the camera upside down. Before it works, all toggle hasps must be fastened and the waterproof plug must be covered.
- ◇ If the camera is not in use, the batteries must be taken out and placed in a dry place.
- ◇ Man-made damages such as bumps and drops are not covered by the warranty.

Waste disposal

- ◇ It is prohibited to dispose of the camera and its accessories as household waste. Discarding at will is prohibited.
- ◇ Please classify and handle it according to local laws and regulations.

Other warnings

- ◇ Please abide by local policies and regulations on the use of wireless products. Do not use the camera where it is prohibited to use.
- ◇ Please abide by the relevant local policies and regulations on personal privacy protection.

Check before use

To ensure your interests, please take a test shot to check before use.

We will not be liable for additional damages caused by improper use or malfunction of this camera.

About the manual

- ◇ The manual is a general guide for the use of the Trail camera, and the pictures contained in it are for reference only.
- ◇ We do our best to keep the content correct. If the manual does not match the camera due to update or software upgrade, please refer to the actual product without prior notice.
- ◇ Due to the need to improve the user experience, the APP may be upgraded, adjusted or added with menus and functions. Please refer to the actual situation of the APP to operate and use, without prior notice.

Copyright and Trademark

We reserve the copyright and interpretation right of this manual. Any organization or individual may not reproduce and disseminate in any form without written consent.

Microsoft and **windows** are trademarks registered by Microsoft Corporation.

Pentium is a trademark registered by Intel Corporation.

Macintosh is a trademark registered by Apple Inc.

Other names or products referenced in this manual may be trademarks or registered trademarks of their respective owners.

1 About the Trail camera

Thank you for purchasing this HD Trail camera! If you encounter problems during use, please contact us in time.

1.1 Features

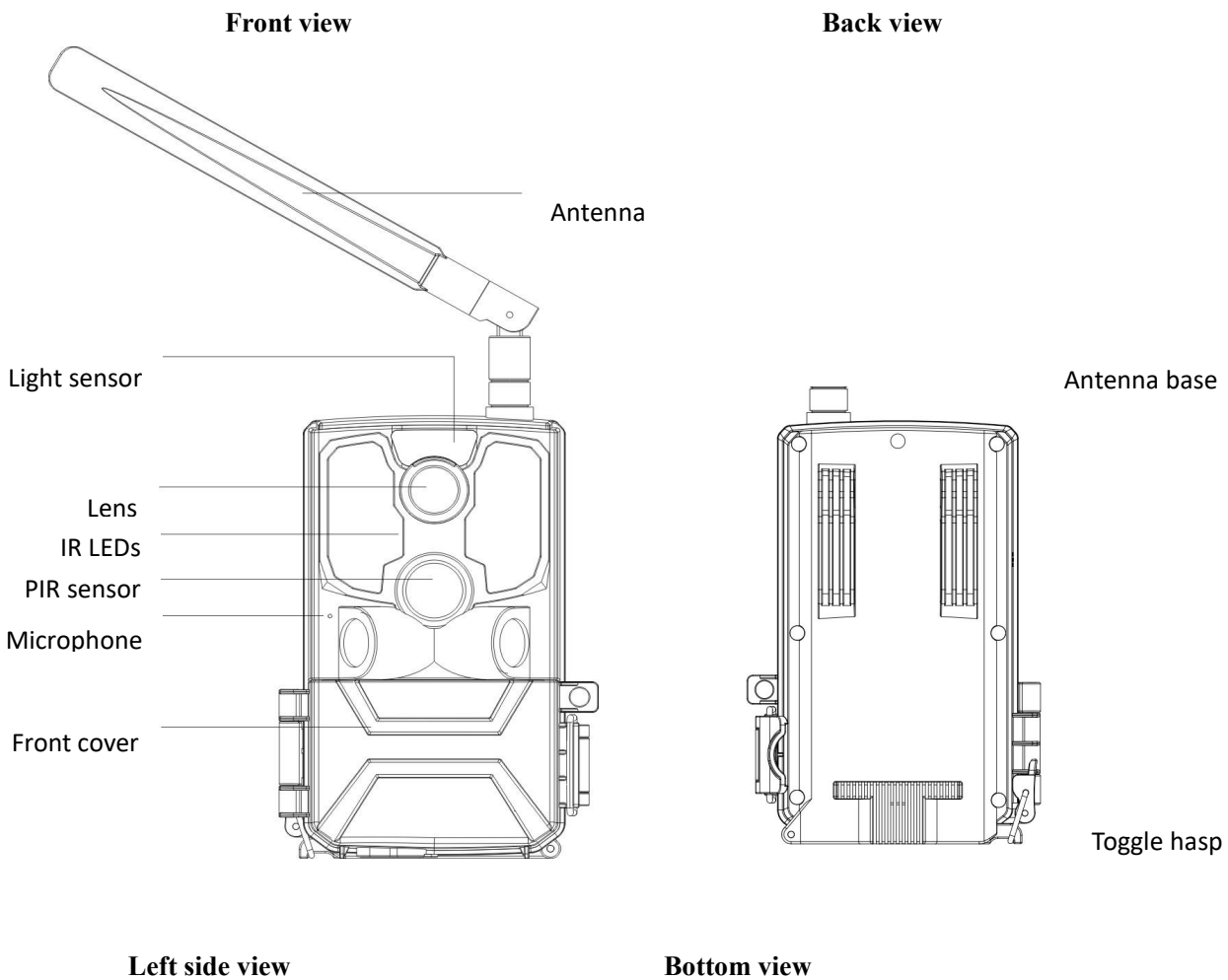
- This is a 4G-LTE Trail camera that works automatically 24 hours a day.
- When a person or animal enters the detection range, the camera automatically takes a photo or record a video, and sends a notification to the mobile phone APP.

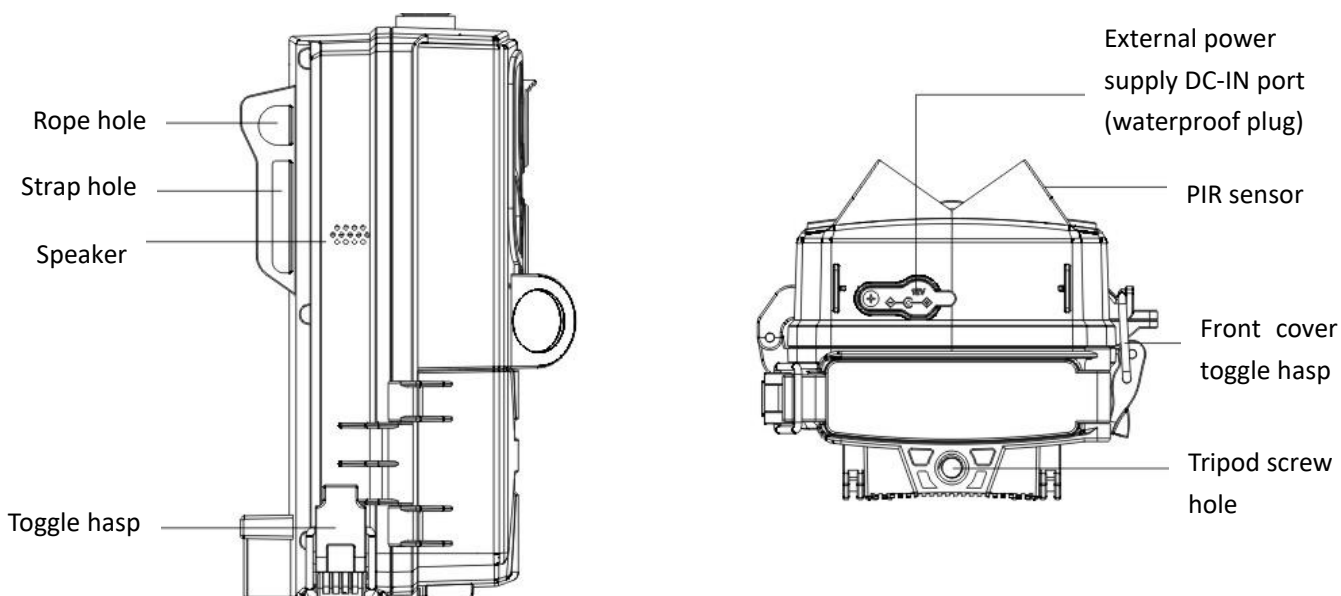
- User can enable real-time monitoring, talk duplex on the mobile phone APP.
- It is widely used in monitoring/ surveillance, Wildlife monitoring and captivating animal shots, hunting, garden security and other application scenarios, especially suitable for outdoor and suburban use without power supply or wired network.

It has the following features:

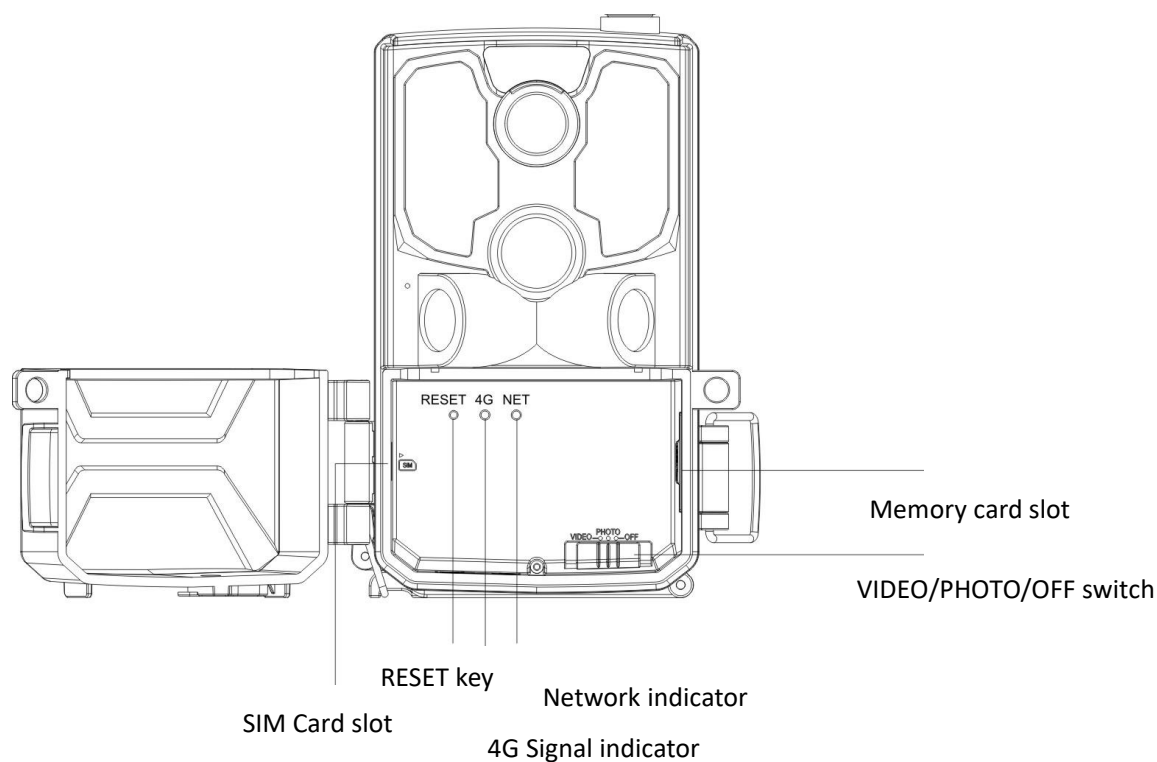
- ◆ Support 4G-LTE
- ◆ APP operation
- ◆ 14MP photo
- ◆ IP66
- ◆ Support dual power supply (internal AA batteries, external power supply)
- ◆ Remote access
- ◆ Cloud storage
- ◆ 2.7K video
- ◆ H.265
- ◆ IR night vision
- ◆ Two-way mode
- ◆ Live video
- ◆ 0.4s trigger
- ◆ All-weather work automatically

1.2 Trail camera diagrams







Front cover open view



1.3 Switch & Key function description

Icon	Name	Function description
	【VIDEO/PHOTO/OFF】 switch	<p>OFF: Power off. Turn off the power and the camera stops working.</p> <p>PHOTO: When the camera senses a signal, it will automatically take a photo.</p> <p>VIDEO: When the camera senses a signal, it will automatically record a video.</p>

 RESET	【RESET】 key	Press and hold 【RESET】 for 5 seconds to reset the system and restart the camera
--	--------------------	--

Warning:

Do not charge the camera through the USB port. It is only used for factory debugging and has no functions available to users.

2 Start to use

This chapter will tell you how to prepare the camera before use, including inserting the Nano SIM card and Memory card, and inserting the batteries.

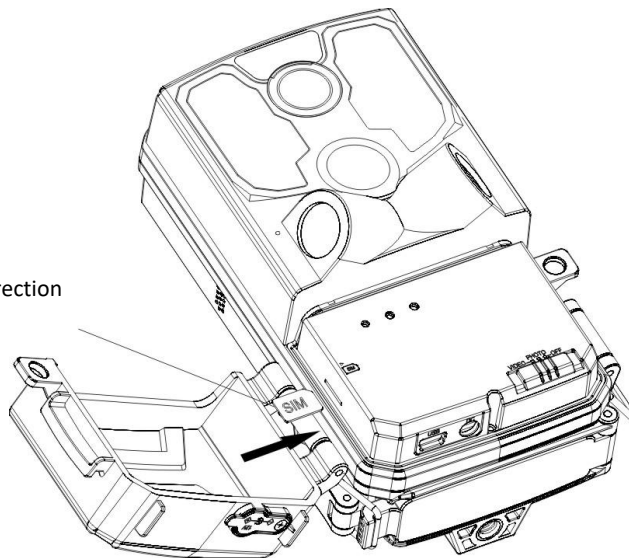
2.1 Insert Nano SIM card and Memory card

2.1.1 The camera must be inserted into a Nano SIM card and a Memory card to work properly. Before using the camera, please connect your phone and open the APP to format the Memory card.

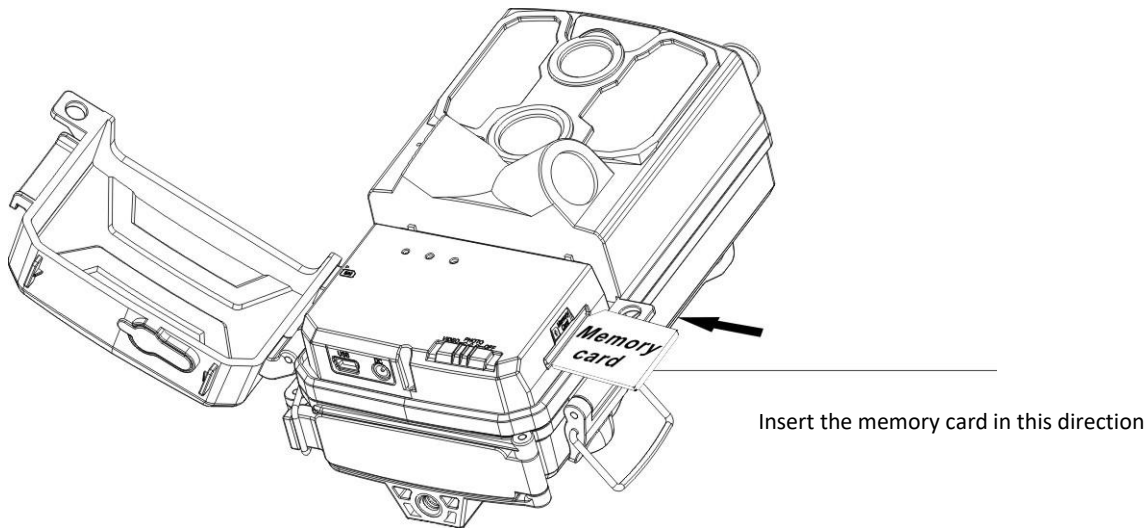
2.1.2 Unfasten the toggle hasp and open the front cover.

2.1.3 Insert the Nano SIM card into the SIM card slot and push it in until you hear a "click". As shown below: The missing corner of the Nano SIM card is aimed at SIM card slot with the metal contacts are facing down.

Insert the Nano SIM card in this direction



2.1.4 Insert the memory card into the memory card slot and push it in until you hear a "click". As shown below: The missing corner of the memory card is aimed at memory card slot with the metal contacts are facing down.



Notice:

Do not remove or insert the Nano SIM card and memory card when the camera is working, otherwise the Nano SIM card or memory card will be damaged. Please use a Nano SIM card that complies with the local 4G-LTE network standard. For details, please consult your local carrier. Please use a qualified CLASS4 or above memory card, the inferior memory card will cause the camera to not work properly.

2.2 Insert batteries

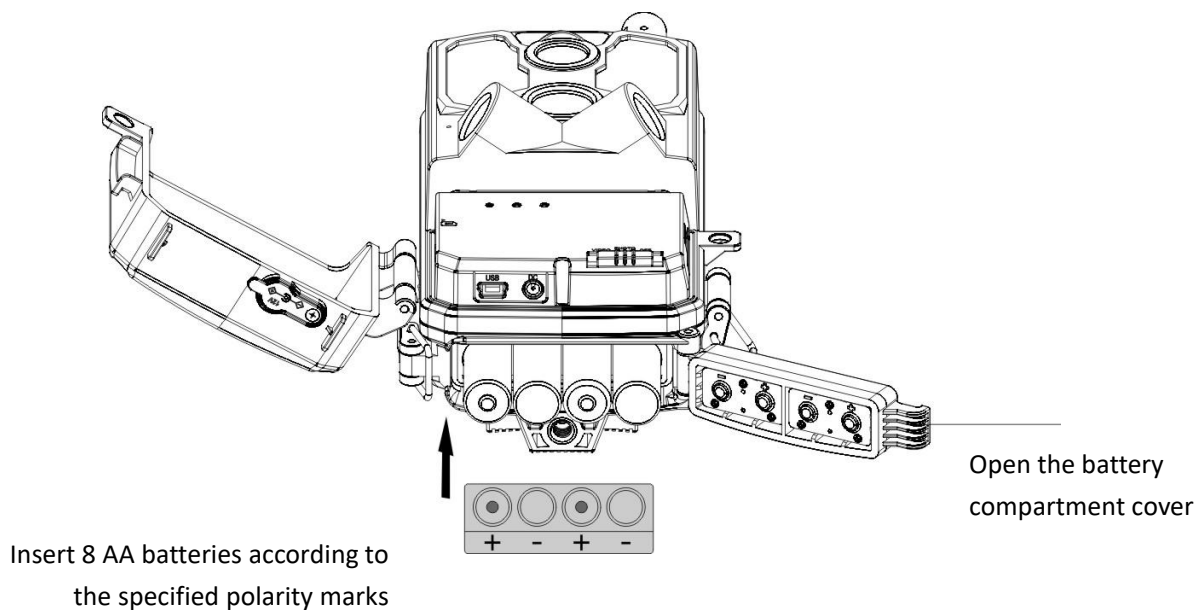
Insert batteries into the camera before use. The camera uses 8 AA batteries.

2.2.1 Unfasten the battery compartment cover toggle hasp as shown, open the cover.

2.2.2 Insert 8 AA batteries according to the polarity marks shown on the battery compartment.

2.2.3 Keep the battery compartment cover clean, close the cover, and fasten the toggle hasp.

2.2.4 Slide **【VIDEO/PHOTO/OFF】** switch to "Photo" or "Video", the network indicator will be on, which shows that the batteries are inserted correctly.



Notice:

Insert batteries according to the specified polarity marks, and do not mix old and new batteries. Incorrectly placed batteries will not power on and may damage the camera or be dangerous. After the batteries are inserted, the toggle hasp must be fastened, otherwise water or dust will enter and damage the camera. If the camera will not be used for a long time, please take out all batteries to avoid damage to the camera.

2.3 Install antenna

2.3.1 Remove the dust cap of the antenna base on the top of the camera.

2.3.2 Install the antenna to the antenna base and tighten it clockwise.

Notice:

The antenna can be adjusted in direction and angle. Properly adjust the direction of the antenna to get the best 4G signal.

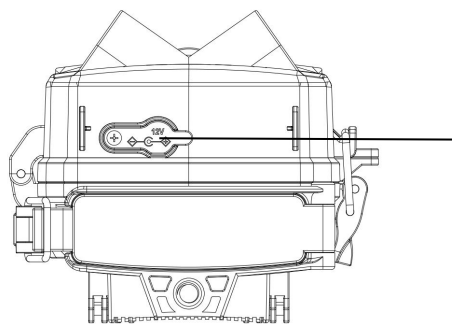
2.4 Use external power supply

When using the camera for a long time, you can use an external power supply to reduce battery power usage.

2.4.1 Insert the batteries according to Article 2.2, and slide the 【 VIDEO/PHOTO/OFF 】 switch to “PHOTO” or “VIDEO”.

2.4.2 Open the waterproof plug of the DC-IN port, and insert the external power supply output into the DC-IN port.

2.4.3 After the camera detects the external power supply, it will automatically switch to the external power supply.



1. Open the waterproof plug
2. Insert the external power supply into the DC-IN port

Notice:

The qualified specification of external power supply: DC12V/1.5A.

It is not necessary to take out the batteries when connecting to an external power supply,.

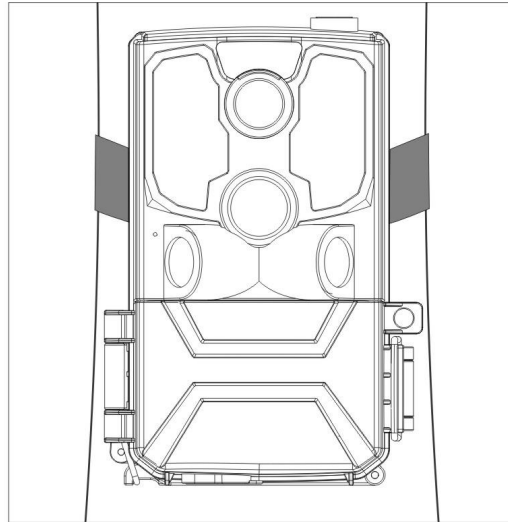
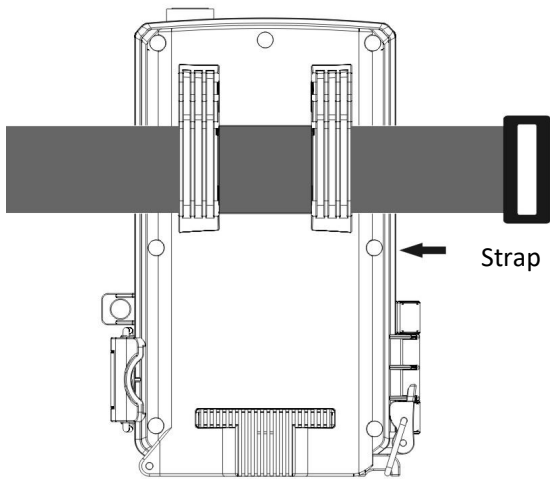
When the external power supply is not used, please cover the waterproof plug.

2.5 Mount and fix the camera

To ensure the camera works safely, please mount the camera in a firm place, you can use a strap or bracket to fix the camera.

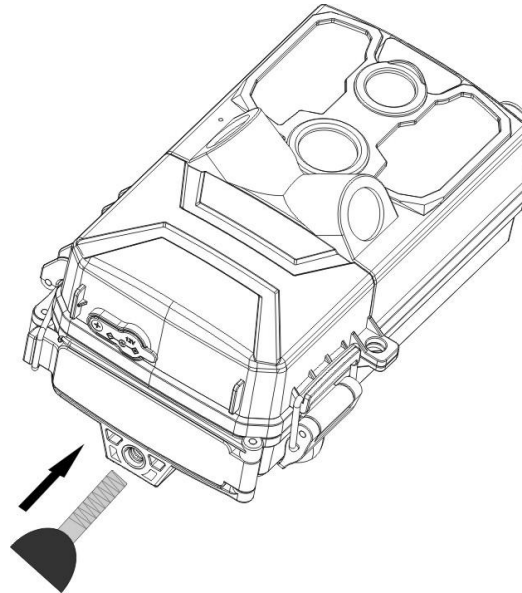
2.5.1 Using a strap to fix the camera

Pass the strap through the hanging hole on the back of the camera, then fix the strap on a tree or other firm object, adjust the camera's shooting angle, and tie the strap tightly. As shown below:



2.5.2 Use a bracket to fix the camera

Mount the bracket on a fixed object (such as a wall or a tree), screw the bracket screws into the screw holes on the bottom of the camera, and tighten it. Adjust the camera angle and tighten all the screws. As shown below:



Screw the bracket screw into the tripod screw hole and tighten it clockwise

Notice:

After the camera is mounted, please fasten all the toggle hasps and cover the waterproof plug. If the camera is mounted close to the ground, make sure that the bottom of the camera is more than 20cm from the ground.

2.6 Power on

2.6.1 Slide **【 VIDEO/PHOTO/OFF 】** switch to the "PHOTO" or "VIDEO", the 4G signal indicator and the network indicator will be on, which shows that the camera is powered on.

2.6.2 4G signal indicator can indicate three states, as shown below.

Indicator color	Indicator state
Red	Weak 4G signal
Blue	Medium 4G signal
Green	Strong 4G signal

2.6.3 The network indicator can indicate two states, as shown below:

Indicator color	Meaning
Blue	4G network connection is successful
Flashing red	the camera is faulty, please contact customer service
Red and blue flash alternately and rapidly	No Nano SIM card detected
Red and blue flash alternately and slowly	SIM card runs out of 4G data or out of service

Notice:

To save power, the indicator will automatically power off after a period of time. Any operation on the APP to activate the camera indicator.

2.7 Change working mode

The camera has two working modes: Video mode and Photo mode.

2.7.1 Slide **【VIDEO/PHOTO/OFF】** switch to "VIDEO", and the camera works in "Video Mode". In this mode, the camera will automatically record a video when it senses a signal.

2.7.2 Slide **【VIDEO/PHOTO/OFF】** switch to "PHOTO", the camera will work in "Photo Mode". In this mode, the camera will automatically take a photo when it senses a signal.

2.8 Reset

If user makes the wrong menu settings and the camera does not work properly, sure can use the camera's reset function.

2.8.1 Keep the camera on, and keep the **【VIDEO/PHOTO/OFF】** switch at the "PHOTO" or "VIDEO".

2.8.2 Use a thin needle to insert the **【RESET】** key hole, press and hold the **【RESET】** for 5 seconds, the camera can be restored to the factory default settings.

2.8.3 After the reset operation, you must delete the camera in the APP- click **“Delete the device”**, and then add the camera- click **“Add a device”** in the APP again, then you can continue to use the camera.

Notice:

After resetting, the camera menus are restored to the factory settings. Saved photo or video files will not be deleted by this action.

2.9 Power off

2.9.1 Slide **【VIDEO/PHOTO/OFF】** switch to "OFF", the camera will be powered off.

2.9.2 After the camera is powered off, it needs to wait for 3 seconds before powering it on again.

2.9.3 If the camera will not be used for a long time, please take out all batteries inside the camera.

Notice:

If slide **【 VIDEO/PHOTO/OFF 】** switch while the camera is working, the photo or video is shooting will be automatically saved.

3 Use the camera

This article helps you use the camera and operate on the APP.

3.1 Monitoring shooting

After inserting the SIM card and memory card into the camera, inserting the batteries and powering it on, please check whether the camera is working properly. Mount the camera to the shooting area, adjust the camera height and angle, and aim the lens at the shooting area.

The APP that matches the camera is "UCon". Please download and install the APP "UCon", then open the APP "UCON" on your mobile phone, register an account, log in and set the relevant parameters as needed, the camera enters the monitoring state, which can automatically monitor and shoot animals or people that are moving within the field of vision, and can be viewed in real time.

Notice

1. The lens needs to be aimed at the shooting range.
2. Battery life will vary in different modes or in different environments.

3.2 Set up and Use APP

3.2.1 Scan the QR code to download and install the APP

Please scan the QR code below with your mobile phone to download and install the APP "UCon"



IOS Phone



Android Phone

3.2.2 You can also search for "UCon" APP directly in the APP store, download and install it on your phone

Android Phone: Search "UCon" in the **Google Play**.

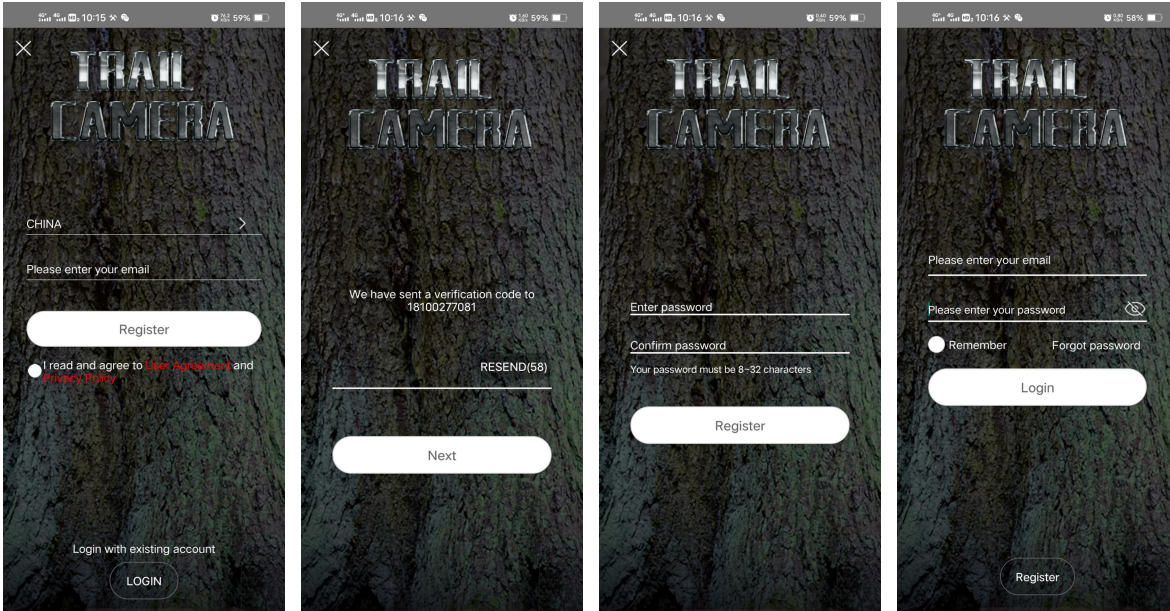
IOS Phone: Search "UCon" in the **App Store**.

3.2.3 Register account

3.2.3.1 Open the APP "UCon" on your mobile phone, click "Register", and follow the on-screen prompts on the APP to register.

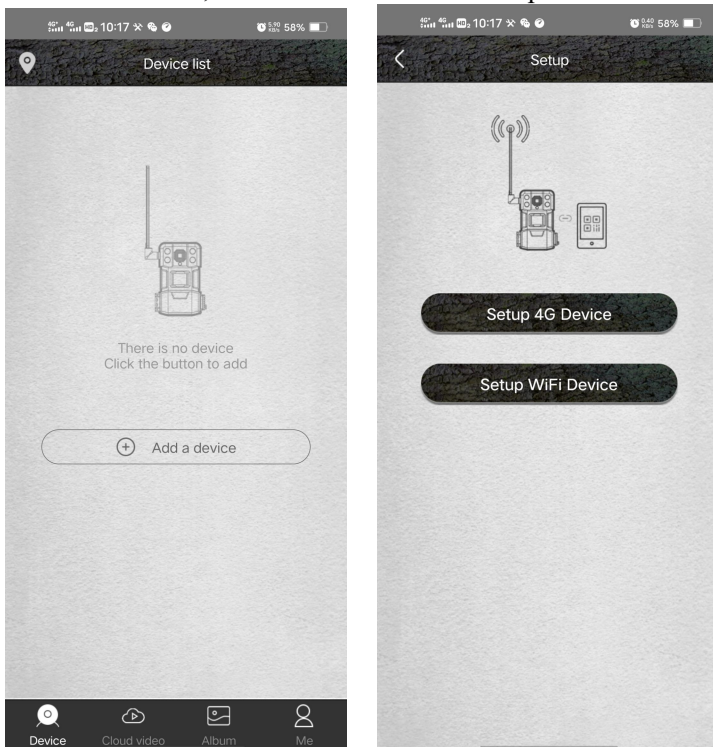
3.2.3.2 Set the login password, enter the verification code, and click "Register".

3.2.3.3 After successful registration, enter the account name, password, and click "Login" to log in to the account.

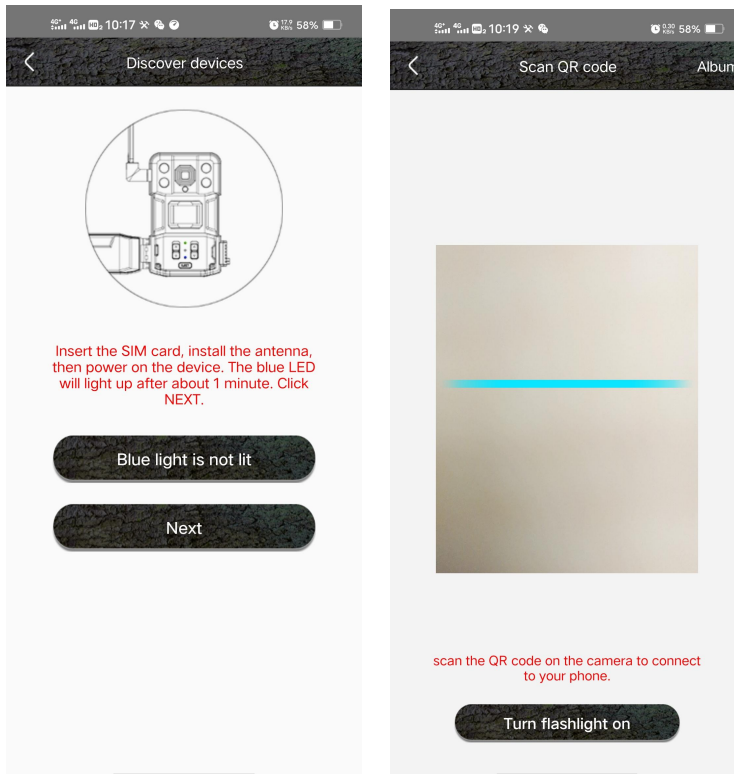


3.2.4 Add the camera

3.2.4.1 Click “Add a device”, then choose and click “Setup 4G Dvice”.



3.2.4.2 After the camera's network indicator turns blue, scan the QR code on the camera.

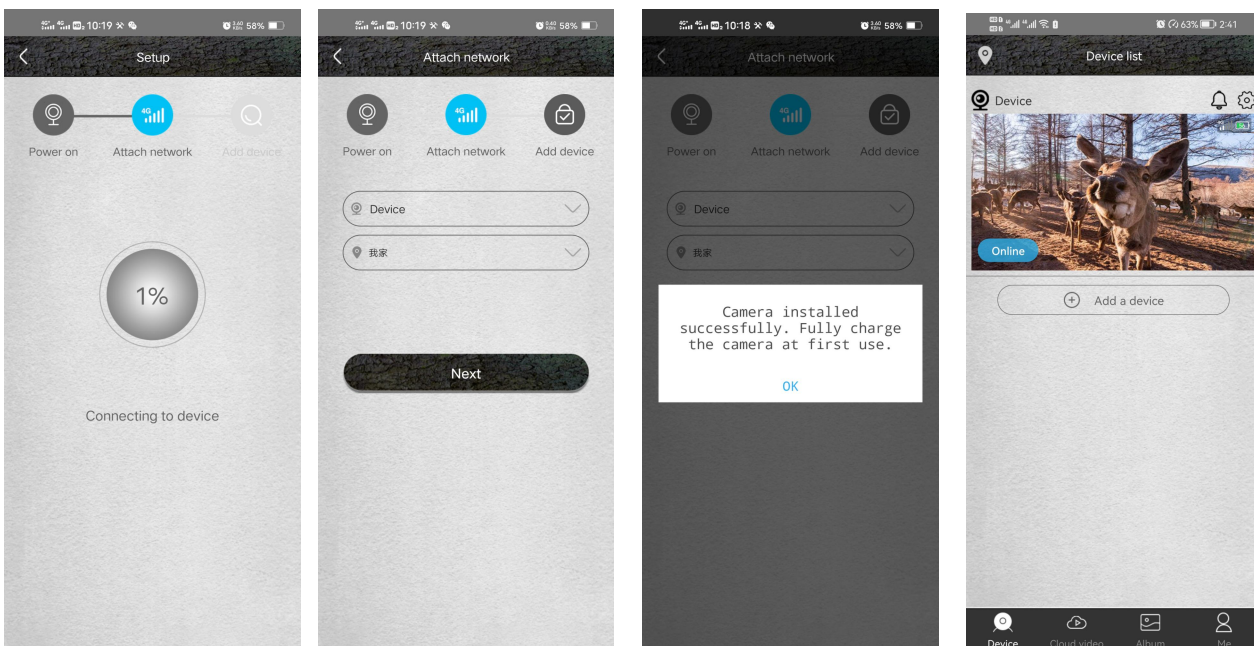


Notice:

Please add the camera in a place with good 4G network signal, and make sure both the camera and the mobile phone have good signal.

When the signal is poor, it may cause the failure of adding the camera, or the remote function may not be available.

3.2.4.3 After the scan is successful, wait for the connection. After the connection is completed, you can enter a device name and address, and then click "Next" to complete adding the camera to the APP. After the camera is added successfully, the APP will display the current preview screen of the camera, and "Online" will be displayed in the lower left corner of the screen.




Notice:

If the camera is no longer bound to a phone, please reset the camera. Otherwise, the camera cannot be bound to other

mobile phones.

3.2.5 Use APP

3.2.5.1 Open the APP on the mobile phone, the display is as follows, please refer to the APP for related operations.



Position switch, click to show camera's position

Click to enable notification sending

Click to enter basic settings → The following settings can be made in the basic settings:
Set the remote mode, share device, activate cloud services, 4G data services, delete device, etc.

Click the screen to enter Live video mode

Camera online display

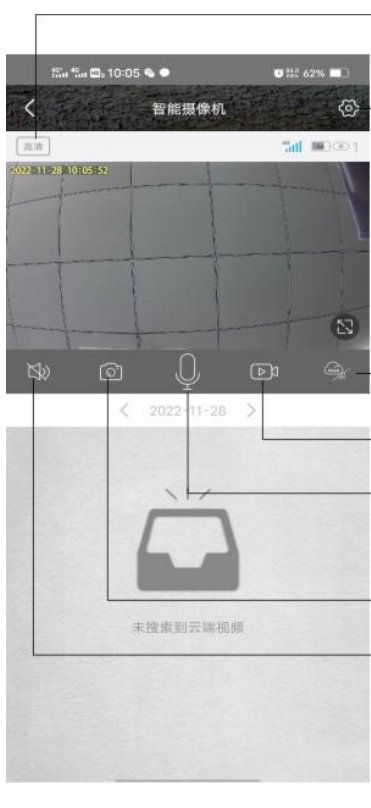
Click to add a camera

Click to view cloud video

Click to access local album

Click to access account management

3.2.5.2 Click the screen to enter the preview mode, the APP displays as follows, and you can perform relevant operations:



Switch video resolutions

Click to enter Device settings: "Device name, Work mode, Memory card, Image flip, Scene mode, Detection sensitivity, PIR trigger interval, Sleep delay, Power frequency, LED indicator, Synchronization time, Retry Time" can be set.

Switch between local storage or cloud storage

Real-time Video recording

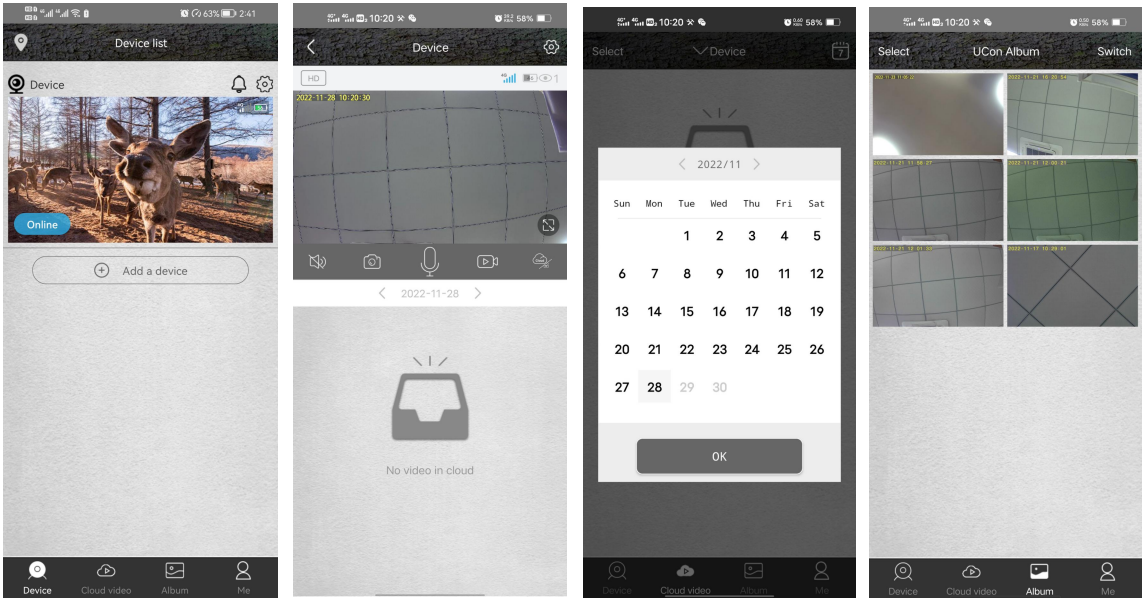
Microphone → Switch on the Microphone, you can speak to the camera. Voice changing is also possible. Switch on the microphone and the sound at the same time, and two-way intercom can be performed.

Real-time Photograph

Speaker

3.2.5.3 Play back cloud video

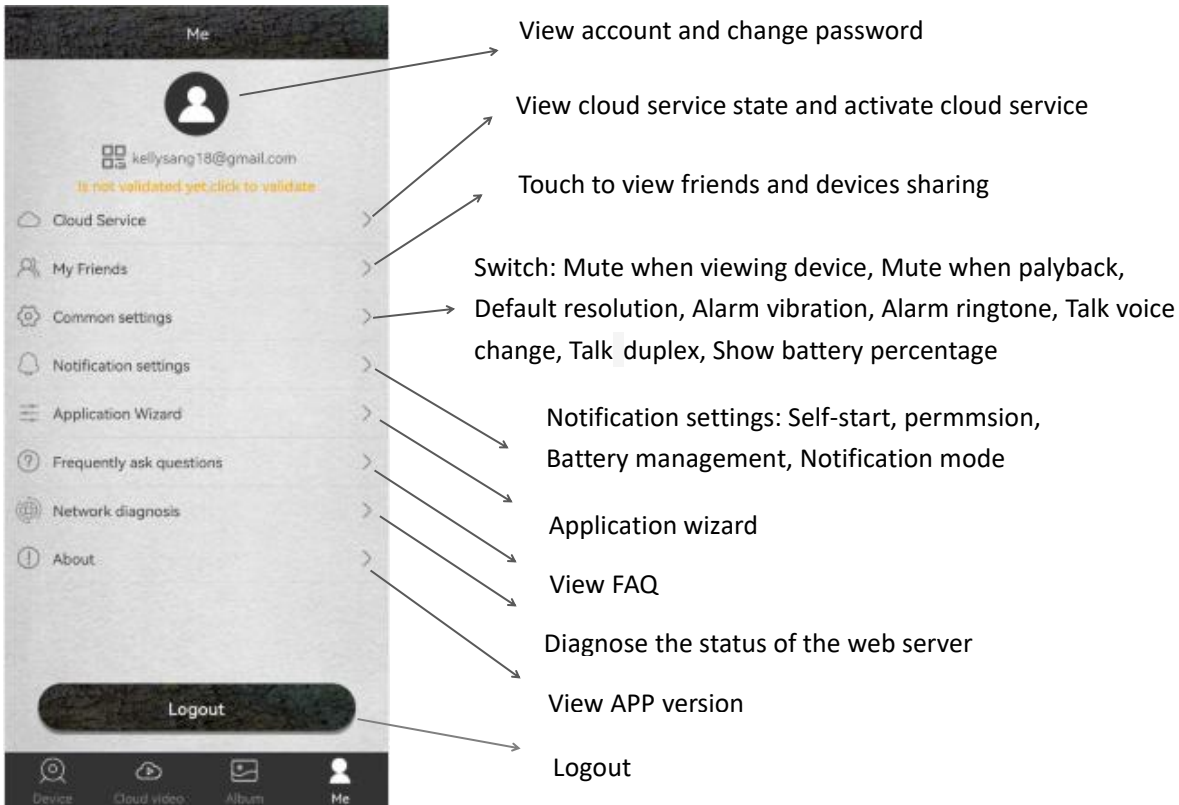
Click the Cloud video icon to enter the cloud video review, as shown below. Click the Calendar icon, select a date to view the cloud video of the day, and you can view videos saved in Cloud video.



3.2.5.4 Play back local files

Click the local Album icon to enter the local album, as shown above, and you can View photos and videos saved in local album.

3.2.5.5 Click the “Me” icon to enter account management, as shown below, and you can perform relevant operations:



3.3 Matters needing attention

3.3.1 The wake-up times and shooting times of the camera will affect the battery life, and using the 4G function or shooting at night will consume a lot of power.

In order to prolong the battery life, please set the camera parameters reasonably: it is recommended to set the remote Work mode to One-way, PIR Detection sensitivity to Low , and PIR trigger interval to a longer time.

When the battery is low, in the upper right corner of the camera screen of the APP, the notification "Low battery, please charge" will appear, please replace the batteries in time.

3.3.2 If the camera uses 4G for a long time, works at night, or shoots at high frequency, it is recommended to use an external power supply.

3.3.3 Please use the wireless function in a place with a good network signal. If the local signal is weak,.it may cause the camera to be disconnected or unable to operate remotely. If this happens, please adjust the antenna direction or change the location where the camera is installed.

3.3.4 The camera has two remote modes: Dual-way mode and One-way mode.

Dual-way mode: for remote real-time live video viewing and setting. In the dual-way mode, the camera consumes a lot of power. It is recommended to use this mode only for setting, and change it to one-way mode after setting.

One-way mode: The camera automatically senses and captures a photo. When it detects an object, it triggers and takes a photo, and sends a notification to the phone. The one-way mode saves more power.

Notice:

In One-way mode, if the user switches it to Dual-way mode in the Settings, the camera will change to Dual-way mode only when it is triggered again.

3.3.5 The camera supports APP remote wake-up and infrared detection wake-up. After each wake-up work is completed, it will automatically enter the sleep state .

3.3.6 The camera provides a free trial period of the cloud service. If you want to continue using the cloud service, please recharge your account.

4 Appendix

4.1 Common faults and troubleshooting

Problems	Possible reasons	Solutions
Camera won't power on	Low battery or wrong batteries	Replace with correct batteries
	Batteries are inserted incorrectly	Insert the batteries correctly
	There are foreign objects on the contacts of the battery compartment cover	Check the battery compartment cover and clean up foreign objects if any
	External power supply of wrong specification or connection error	Use a suitable external power supply and connect it correctly
	Operating temperature is too high or too low	Use in places where the temperature is suitable
Camera powers off suddenly	Low battery	Replace with new batteries or use an external power supply

Normal during the day, photos taken are dark at night	Low battery or wrong external power supply	Replace with new batteries or an external power supply that meets requirements
Does not read memory card or save files	Power outage before file storage	Replace with new batteries or use an external power supply
	Memory card write speed is too slow	Replace with a CALSS4 or above memory card
	Memory card is damaged or does not meet specifications	Replace with a memory card that meets the specifications and format it with the camera
Camera freezes while working	Low battery or wrong external power supply	Replace with new batteries or an external power supply that meets requirements
	Damaged or poor quality memory card	Replace with a qualified memory card and format it with the camera, reset and restart the camera
Camera consumes a lot of power	Camera settings, PIR interval is too short	Choose a longer PIR interval
	Camera settings, PIR sensitivity is too high	Choose a lower PIR sensitivity.
	too many shots at night	IR LEDs consume a lot of power at night. If you shoot a lot at night, it is better to use an external power supply
	Dual-way mode is enabled, or the 4G communication is used for too long	Switch to One-way mode, or reduce the time of of using 4G communication
	The above settings are the balance between camera performance and battery life. Please refer to the manual for proper settings to get a better effect and battery life.	
Water has gotten into the camera or the lens is foggy	The waterproof ring has fallen off or there is a foreign object	Check the waterproof rings, keep the waterproof rings clean, and make sure the waterproof rings are placed correctly
	The toggle hasps are not fastened or waterproof plug is not tightly covered.	Before using the camera, please check and fasten all toggle buckles and cover the waterproof plug
	Improper use, such as putting the camera in water	The camera is rainproof, but it is forbidden to put it in water
	Mounting or using the camera incorrectly, such as upside down	To mount the camera correctly, the top of the camera must face up and the camera must be mounted vertically
	If the camera lens is foggy, or water gets into the camera but it works, power it off and take out the batteries immediately. Wipe off any water or mist with a dry towel, then open the camera cover and place it upright in a ventilated place, and use it again after it is completely dry	
Does not work properly when using an external power supply	Poor power connection	Check each port to make sure each connector is securely connected
	Wrong external power supply	Replace with a qualified external power supply
It shows no 4G signal	No nano SIM card inserted	Insert the nano SIM card as required
	The contact of nano SIM card is not good	Clean the nano SIM card contacts and reinsert
	There is no 4G signal in the area	Move the camera to an area with 4G service

	where the camera is located	
	Carrier do not provide the service	Contact your local carrier
Slow remote transmission	4G network signal is poor	Move the camera position, or adjust the antenna direction to maintain a better 4G signal
	Carrier network speed is slow	Consult your local carrier
Other issues	The camera can be powered on, but there are other unusual problems	Replace with fully charged batteries
		Replace with a qualified memory card and format it with the camera
		Reset and restart the camera
If the above methods do not solve the problem, the camera may be damaged, please contact the dealer.		

4.2 4G network standard

According to the supported 4G network standard, there are European version and North American version, please choose the version according to the local 4G network.

European version	Applicable to areas (in Europe) that comply with the following 4G frequency bands: LTE-FDD: B1/B3/B5/B7/B8/B20 GSM/GPRS/EDGE 900/1800MHZ
North American Version	Applicable to areas (in North America) that comply with the following 4G frequency bands: LTE-FDD: B2/B4/B5/B12/B13/B14/B25/B26/B66/B71 LTE-TDD: B41

4.3 Technical Specifications

Image sensor	CMOS sensor 4.0MP, 14.0MP (interpolation)
Memory	Support SD card up to 128GB
Lens	F/1.6 f=4mm , FOV: 90°
Trigger time	0.4s
IR LEDs	940nm/38pcs
Detection sensitivity	High/ Normal/ Low
Detection distance	0~20m
Detection angle	120°
PIR trigger interval	0 sec~5 min
Working mode	Photo mode/ Video mode
Photo	JPEG, 14.0MP (5120*2880)
Video	MP4, H.265, 2.7K (2560*1440)
Video length	5sec/10sec/20sec/30sec
Microphone	Yes, built-in
Speaker	Yes, built-in
Remote control	Support, mobile phone remote operation, Two-way awake-up
Mobile APP	Yes, APP Name: UCon
Live video	Support
Cloud storage	Support

Operating voltage	DC 12V
Battery	8 AA batteries (not included)
External power supply	DC 12V/1.5A (not included)
SIM card	Nano SIM card
Language	Automatic, change with the phone system language
Standby time	150days (8 AA batteries)
Operating temperature	-10°C ~ 40°C
Storage temperature	-20°C ~ 60°C
Waterproof rating	IP66
Dimensions	101(L)*86(W)*336(H) mm (including antenna)
Weight	About 285±5g (without batteries)

FIP221130E40G-ZX-A1 (EN)