Trail Camera Instruction Manual

TA500

FCC ID:2BYTQ-TA500V1



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1. Quick Start

1.1 What's in the Box?



4G Antenna × 1



Trail Camera × 1



USB Cable × 1

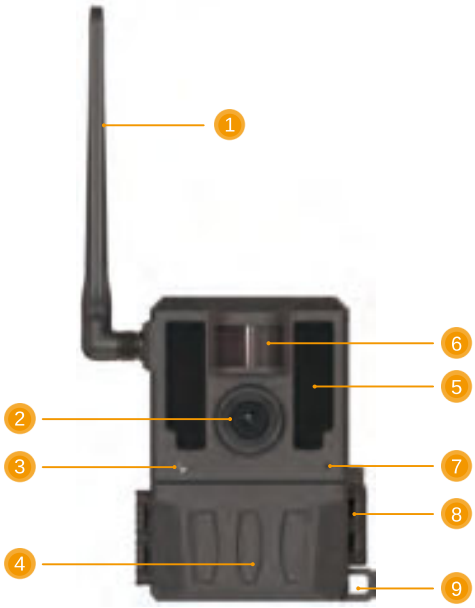


Mounting Strap × 1

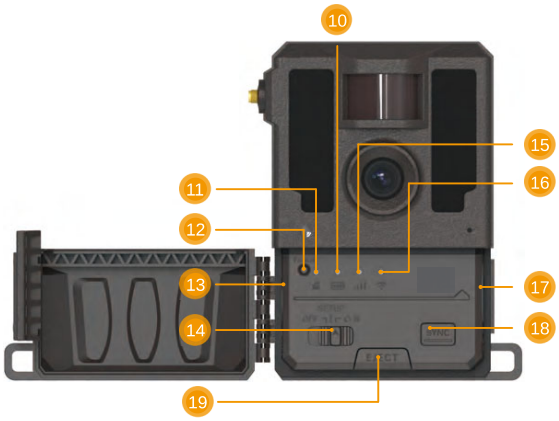


SIM Card × 1
(Note: Not included for some areas)

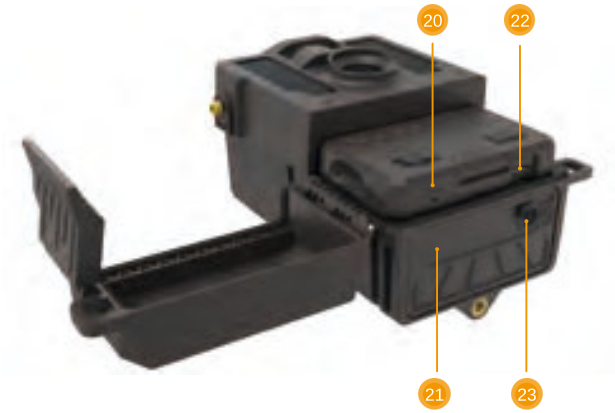
1.2 Camera Overview



1. Antenna
2. IR LENS
3. Camera Status Light & Light Sensor
4. Control Panel Cover
5. IR LEDS
6. PIR Sensor
7. Built-in Mic
8. Latch
9. Lock Hole



10. Battery Status Light
11. SD Card Status Light
12. SD Format Button
13. SIM Card Slot
14. Power Switch
15. Signal Status Light
16. Account Status Light
17. SD Card Slot
18. SYNC Button
19. Battery Tray Eject Button



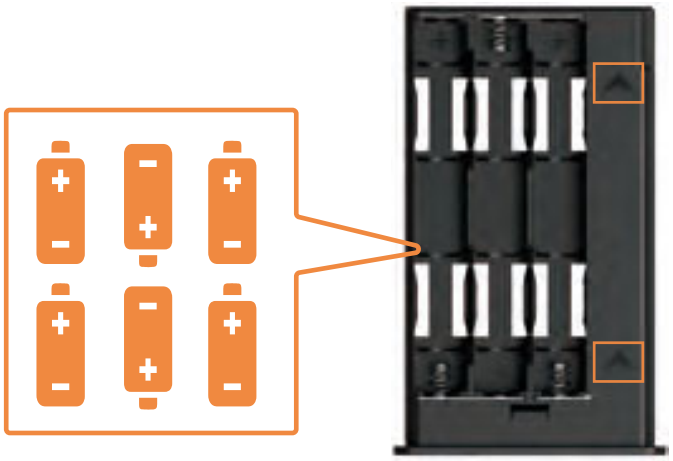
20. Reset Button
21. Battery Tray
22. Type C Port
23. DC IN

1.3 6 Steps to get the camera ready

1.3.1 Insert the batteries

Press the **Battery Tray Eject Button** to open the camera's battery holder and insert the batteries with the polarities (+) and (-) in the direction as marked in the battery holder, then place the battery holder back into the battery compartment with arrows facing up. (See Photo)

Note: 12AA Alkaline or Ni-MH batteries are recommended. For optimal performance, input the type of batteries you are using in the **Battery Type** section of the App. (See section 3.1 for more information.)



1.3.2 Insert the SD card

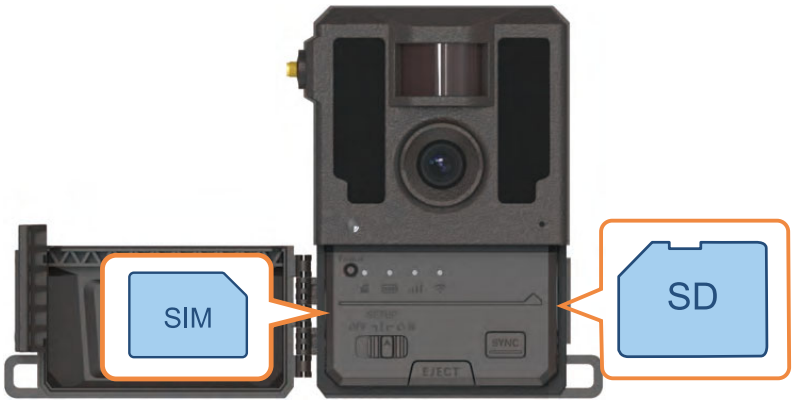
Insert an SD card into the SD card slot with the metal contacts facing down.

Note: This camera supports an 8~32GB SD card. (See section 3.2 for more information.)

1.3.3 Insert the SIM card

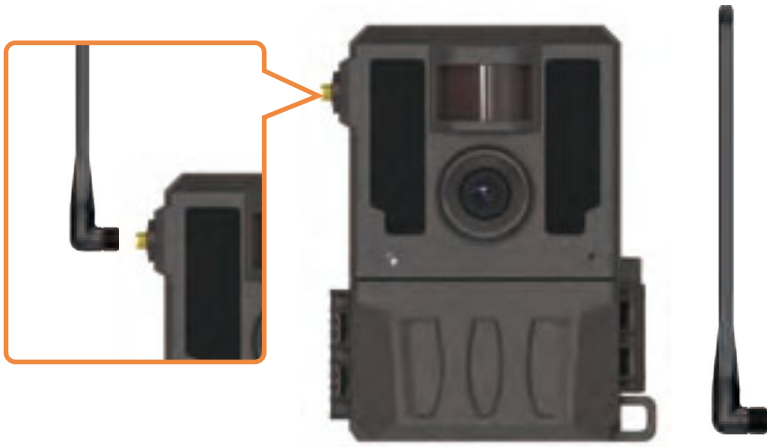
Insert a SIM card into the SIM card slot with the metal contacts facing down.

Note: Make sure that the camera is turned off before inserting the SIM card. (See section 3.3 for more information)



1.3.4 Install antenna

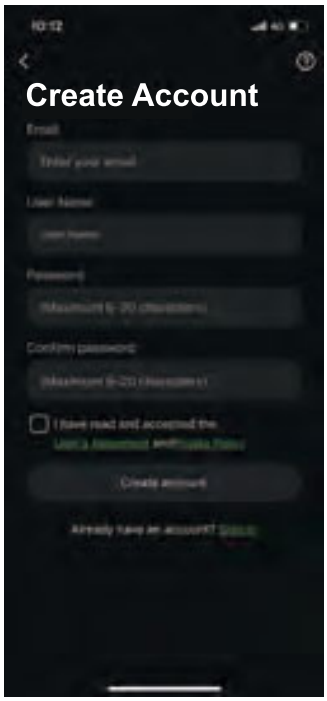
The antenna doesn't come installed. Please insert it as shown in the photo.

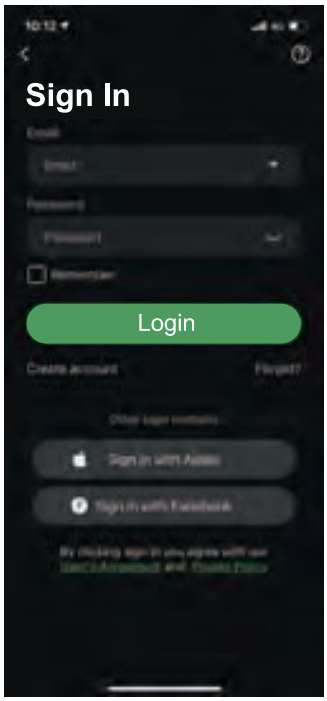


1.3.5 Using the App to Pair and Activate the Camera

Download the App, register an account by email or just log in with 3rd-party App(The verification code will send to the email, please check the spam if you do not receive it). And scan the camera's QR code through the App to pair it. After pairing, the camera will be activated and added to your account, and now you can test to use it.







1.3.6 Test the Functionality of the Camera

Switch the mode to SETUP, then click the Test button to take an image, and check whether the image transmits to the App, if it goes well you can switch the mode to ON to capture images.

Use and enjoy it

Switch to ON mode and close the latch, place the camera where you need to capture.

2. Operation List

2.1 Configure Camera Settings

The function setting of the device can only be set on the APP, and the general setting list is as follows:

Item	Specification	Explanation
Camera Mode	Photo/Video/ Photo+Video	Set the mode of capturing. Photo: Take a photo. Video: Take a 10s video. Photo+Video: Take a photo and a 10s video.
Image Size	24MP/12MP/8MP	Set the pixel size for SD card saving photos. 24M/12M/8M
Remote Control	Real Time/Delay 0.5H(1/2/3/4/6/ 12/24H)	Set the time interval for camera active response. Real Time: instantly response. Delay 0.5H(1/2/3/4/6/12/24H): regular response.
Multi Shot	1P/2P/3P/4P/5P	Set the number of consecutive pictures to take when triggered.
PIR Sensitivity	0 ~ 9	Set PIR detection range and distance. 0: OFF 1~9: ON
Flash Power	High/Low	Set the power consumption of IR LED in night vision environment.
Time Lapse	OFF/ON	Set time interval for timed capture.
Delay	OFF/ON	Set the duration of the interval between two consecutive PIR triggers.
Working Timer 1	OFF/ON	Set the working interval to allow the device to work regularly.
Working Timer 2	OFF/ON	Set the working interval to allow the device to work regularly.

Max Num/Day	Unlimited/1~99	Set daily maximum sending limit.
Battery Type	Alkaline/NI-MH/ Lithium	Set different battery types for optimal performance.
Camera Time Zone		Set the camera time zone.
Date Style	MM-DD-YYYY DD-MM-YYYY	Set camera date display format.
GPS	OFF/ON	Set the positioning function.
GPS Alert	OFF/ON	Set the positioning warning function to receive push notifications when the camera position changes.
SD Cycle	OFF/ON	Set the SD card cycle coverage.
SD Format		Perform SD card formatting operation, SD card file cleared.
Factory Reset		Perform the Factory reset operation.

2.2 Manage Devices

This part introduces key device functions like entering live view, requesting instant photo, requesting HD photo/video, creating and joining share groups, resetting and deleting the camera etc.

2.2.1 Enter Live View

To use this function, set "**Remote Control**" to "**Real Time**" mode in "**Setting List**" > "**General Setting**" (The Real Time request will take effect after the next photo or the interval previously set for Remote Control.), and have a "**Live Stream**" package available on the account. (If not, please visit https://ace.wuyuantech.com/#/data_live to choose one.)

Once conditions met and network connection stable, click the **Live** icon for live view to see what's happening in front of the camera lively.

Note: In **Real Time** mode, the camera **4G module** is standby (on power) all the time to react to your remote control commands instantly while this consumes power very fast, thus only suggest to set to this mode when camera is connected with external power supply.

2.2.2 Request Instant Photo/Video

To request instant photo, set "**Remote Control**" to "**Real Time**" mode in "**Setting List**">"**General Setting**" . (The Real Time request will take effect after the next photo or the interval previously set for Remote Control.)

Once in Real Time mode, click "**Instant Photo**" or "**Take Photo/Video Now**" under "**Setting List**" to send request. Please do set "**Camera Mode**" under "**General Setting**" to "**Video**" or "**Photo+Video**" for video requests.

2.2.3 Request HD Photo/Video

To get HD photo/video based on the standard size photos and videos you received on your App account, you will need to have "HD Photo" and "HD Video" packages available on your account. (If not please visit https://ace.wuyuantech.com/#/data_hd to choose one.) After that, click single photo/video under "**Cloud**", or click the "**Edit**" icon on the top right of Cloud page, and then click "**HD**" icon at the bottom to request for higher resolution version of the selected photo(s)/video(s).

2.2.4 Create Share Group

To view camera content with a group, click "**Create a Share Group**" under "**Setting List**" to create groups (allowed quantity according to your

transmission plan) and then click "**Invite**" to invite guests to your group either by scanning your created QR Code or by clicking your invitation to their email.

2.2.5 Join Share Group

This is for situations that you are invited or you request to join the specific share group of the host camera, click "**Share Group**" on "**Cameras**" page, then click "**Join Share Group**" to scan the invitation QR code to join, or click the invitation email sent to your mailbox to follow steps to join.

Note: Share group members only have view permission and limited setting permission shared by the Host.

2.2.6 Reset Camera

To reset the camera back to the original factory settings, go to the bottom of the "**General Setting**" page under "**Setting List**", and then click "**Factory Reset**" to restore the factory settings. The Real Time request will take effect after the next photo or the interval previously set for Remote Control.

Note: A reset of the camera will remove all personal settings you made for the camera.

2.2.7 Delete Camera

When you want to add the camera to another account, you will need to delete it from the previous account first. Please click the "**...**" icon on the top right of "**Setting List**" page, then click "**Delete Camera**" at the bottom, click "**OK**", then enter your account login password, and the camera will be deleted successfully.

Note: Deleting a camera means deleting all its contents on your account including photos, videos, and plans.

3. Full Function Introduction

3.1 Power Supply Selection

3.1.1 Battery specification

Support DC9V~12V, 12 AA Alkaline batteries, NIMH batteries and Lithium batteries for power supply;

Note: 1. Please use high quality AA batteries to prevent battery corrosion and leakage.
2. Do not reverse the electrodes when inserting in batteries.
3. Do not interrupt the power supply during system upgrades.
4. Do not remove the batteries or the power adapter when the camera is ON.

Battery life as shown:

4G OFF_12AA Alkaline Batteries					
Photos shot per day	**Working time**		**Video clips shot per day**		**Working time**
Night					
Photo	100 pcs	67 days	Video—10s	10 clips	71 days
Day					
Photo	100 pcs	116 days	Video—10s	10 clips	148 days

3.1.2 Adapter specification

Support DC12V/2A adapter for power supply, and the power cord of the adapter is 4.0 mm * 1.7 mm.

3.2 SD Card Selection

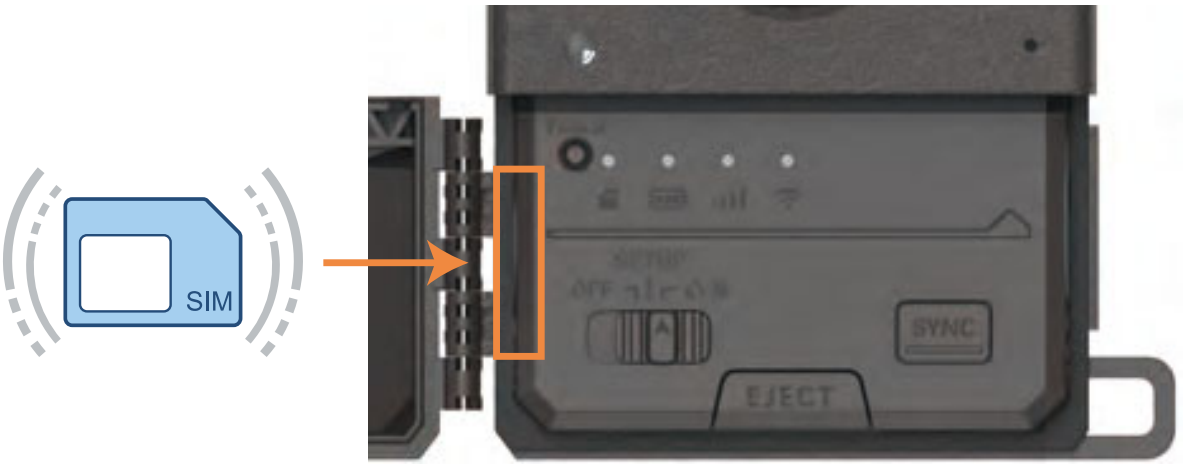
The SD card must be inserted in the camera for normal use, and supports storage from 8GB to 32GB. The SD slot has a storage capacity of 32 GB. If the camera is set to **SETUP** and the SD card is not in use, the SD card indicator will turn red to indicate that there is no SD card inserted. Before inserting or removing the SD card, make sure the camera is in **OFF**. Failing to do so may result in loss of pictures or damage to the SD card.

Note: When the status of the SD card is abnormal (including the SD card is full), the SD card indicator will turn yellow.

3.3 SIM Card Usage

A SIM card is usually included in the package and when you insert the battery, SD card, SIM card, install the antenna and press the button to **SETUP** mode, the camera will automatically search for the network.

After the SIM card is successfully activated, the camera can transfer pictures and videos to the mobile phone, and camera related parameters can be set on the mobile phone.

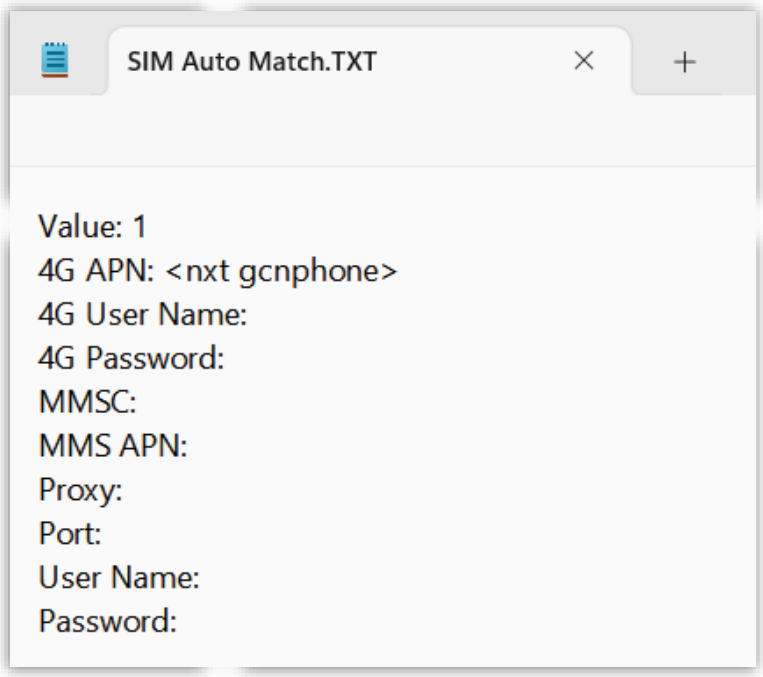


If you use an other brand SIM card that can't be automatically matched to operator, you should set it manually as follows:

a: Please call the local operator of the SIM card to get the 4G APN information.

b: Please create a SIM Auto Match txt file in the root directory of the SD card. The contents of the SIM Auto Match txt file are as follows:

Value:1
4G APN: <Fill in 4G APN of the SIM you consulted from its operator>
4G User Name: <Fill it if the 4G APN has user name, if not leave it empty>
4G Password: <Fill it if the 4G APN has password, if not leave it empty>
MMSC: <Leave it empty>
MMS APN: <Leave it empty>
Proxy: <Leave it empty>
Port: <Leave it empty>
User Name: <Leave it empty>
Password: <Leave it empty>



3.4 Status Lights

Account Status Light Situations	
Green light flashes slowly.	The camera enters the setup state, executing the net injection process and parameter synchronization process.
Green light stays on.	The camera is associated with the account and the server communication connection is successful.
Red light flashes slowly.	1) The camera is associated with the account, but the server communication connection fails. 2) In Setup mode, the camera detects that the number of available thumbnail data plan is 0.
Red light stays on.	The account is not tied to the camera.
Battery Status Light Situations	
Green light stays on.	Battery charge is above 80% (or DC power is connected).
Yellow light stays on.	Battery charge is between 20%~80%.
Red light stays on.	Battery charge is less than 20%.
Red light flashes rapidly.	Camera is on low battery, lasts 5s, then shuts down.
Signal Status Light Situations	
Green light flashes slowly.	The camera enters the setup state, executing the net injection process and parameter synchronization process.
Green light stays on.	SIM card available, excellent signal.
Yellow light stays on.	SIM card available, good signal.
Red light stays on.	SIM card available, poor signal or failed network injection.
Red light flashes slowly.	Camera without SIM card or non Mega SIM.
Red light flashes rapidly.	Abnormal communication between DSP and module.
SD Card Status Light Situations	
Green light stays on.	The SD card is inserted in the camera, and the SD card status is normal.

Green light flashes slowly.	The SD card is inserted in the camera and the SD card status is normal. Debug Mode is enabled (Qlog is not enabled).
Green light flashes rapidly.	The camera is in the process of a firmware upgrade (including SD card, OTA execution of camera software, module software, or MCU software).
Yellow light stays on.	The SD card is inserted in the camera, but the SD card status is abnormal (including SD card is full).
Yellow light flashes slowly.	SD card is available and Qlog is enabled.
Yellow light flashes rapidly.	SD card is available and USB cable is connected to computer, the camera is in MSDC mode.
Red light stays on.	No SD card.
Red light flashes rapidly.	If the camera firmware fails to be upgraded (including the battery is insufficient and the upgrade file does not meet the conditions), the current SD card detection status and display will be restored after 5s duration or button operation.
Light off	During the execution of SD Format, the SD card indicator will be displayed according to the detection status when the SD card is remounted after the execution.
Camera Status Light & Light Sensor Situations	
The light stays on.	When entering the setup state, the status indicator light stays on.
Flashing	PIR Test: In the setup state, if the device is not in the process of photographing or recording, and there is a PIR trigger, the indicator light will flash.
Light off	In the setup state, if the device is in the process of manual

Light off	photographing or video recording, the indicator light will remain off until the photographing or video recording is completed.
5s countdown flashing.	When the equipment enters the ON state, the 5s countdown flashing is executed.

3.5 Operation Keys

Function	Operation	Specification
Key Switch	OFF	Enter the shutdown state.
	Setup	Enter the setup state.
	ON	Enter the standby state.
SYNC Key	In Setup state, short press.	Take a test picture and send.
Reset Key	In Setup state, press and hold for 5s. (use an ejection pin)	Perform a reset operation and remove all personal settings you made on the camera.
SD Format Key	In Setup state, press and hold for 5s.	Perform the SD card format operation.

3.6 USB Connection

The camera can be connected to the computer via USB cable, you can find and view photos and videos captured by the camera and stored on the SD card in the computer→ DCIM folder (default).

Note: Please note that the USB cannot charge the camera after it is connected to a computer or other electronic device.

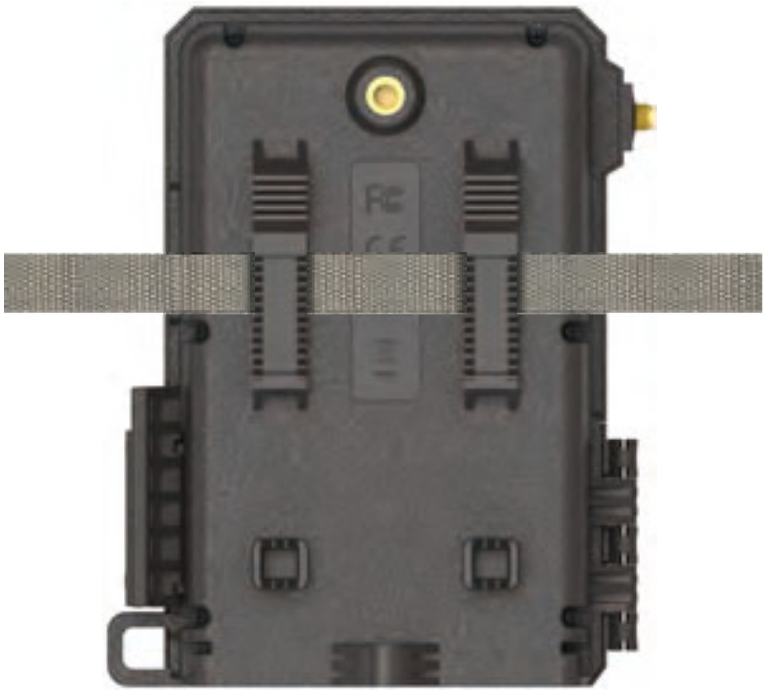
3.7 Mounting Strap

The camera can be attached to a tree using the installation strap through the intended slots on the back of the camera to prevent the camera from falling.

1. Choose a tree that will not move in the wind, as movement will cause false detection.

2. Make sure the area immediately in front of your camera is free of branches or twigs that could be blown away by the wind.

3. To produce brighter photos and videos at night, there should be items reflecting the camera's flash in the background.



4.Specification Form

Item	Specification
Effective Pixels	24M/12M/8M
Aspect Ratio	16:9
Lens	DFOV=60°, F=2.0
Day/Night Mode	Yes
IR LED	54pcs, 940nm
PIR Range	Maximum support of 20m
PIR Angle	60°
Trigger Speed	0.5s
Image Resolution	24M/12M/8M Thumbnail Transmit: Support
Photo Format	JPG
Multi shot	1P/2P/3P/4P/5P
Video Resolution	FHD-1080P/HD-720P Thumbnail Transmit: Support
Video Length	3~10s
Encoding	H.265
Video Format	MP4
Microphone	Yes (one way voice)
Live Stream	Support 720P (1280x720) video resolution
DC Supply	DC 12V2A adapter
Battery Supply	12pcs, Alkaline/NI-MH/Lithium AA battery
SD Card	Standard SD card slot, support 8~32GB

SIM Card	Standard SIM card slot, support ACESIM Card and Other SIM Card
USB	Type C
DC Port	4.4mm*1.6mm, Adapt to 4.0mm*1.7mm power supply cord
Indicator Light	Status/SD Card/Battery/Signal/Account Status Light
Operating Keys	Key Switch/Format/Reset/SYNC Key
Operating Temperature	- 20°C ~ 55°C
Storage Temperature	- 25°C ~ 60°C
Operation Humidity	5% ~ 90%
Storage Humidity	40% ~ 60%
Waterproof spec	IP66
Camera Dimension	141mm*114mm*94mm
Camera Weight	470g (with antenna)
Certification	CE, IP66, RoHS, FCC

5. Trouble Shooting

1) The camera takes a photo or video without any target objects in it (false trigger):

1. The PIR sensitivity is set too high: the camera detects object movement and triggers, e.g., light movement, unstable camera mounting position, and slight shaking will cause triggering. You should reduce the PIR sensitivity.
2. There are leaves or branches in front of the lens. False triggers can be caused by windblown grass, fallen leaves, or branches in front of the camera lens. You should remove as much grass, leaves, and branches from the target area as possible to avoid false triggers.

2) Night vision range is limited:

1. The battery is low. Replace the battery with a new set or connect it to a solar panel.

2. There is light source near the camera. Avoid placing the camera near a strong light source as this will interfere with the camera's night vision function.

3. The target area is too open. There are few objects that reflect infrared light, the less reflected light the camera receives, the darker the night vision image will appear. You can point the camera at an area where there are objects such as trees, bushes, walls and so on.

3) The camera stops working:

1. If the camera is in non Real Time mode, it can't respond immediately to APP commands. The default setting of the camera is once every 24 hours.

2. The camera is set to Num/Day, which limits the number of pictures sent per day. You should set it to unlimited.

3. The camera does not respond to APP commands in **SETUP** mode. You should switch to **ON** mode.

4. The camera does not have Cloud Service or Data Plan, and an other brand SIM card does not have 4G service.

5. The SD card is full. You should use a new SD card, open SD cycle mode, or format the SD card.

6. The SD card is damaged. You should format the SD card to FAT32 or replace it with a new C10 SD card.

7. The battery is low. You should replace the battery with a new set or connect it to a solar panel.

6. Warranty

Based on a strict QC system, we initially offer all our customers one year long time limited warranty, come along with selectable chargeable renewal policy of warranty as one, two, three, or four years.

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 the problem before returning the product under this warranty (with a written description of the problem and print samples) for repairing or exchanging.

7. FCC

FCC regulation
Federal Communications Commission - Part 15

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the Federal Communications Commission 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.

Changes or modifications to this equipment not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment. 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.

Radiation Exposure Statement To comply with FCC RF exposure compliance requirements, this grant is applicable to The antennas used for this transmitter must be installed to or operating in conjunction with any other antenna or transmitter. only mobile configurations. provide a separation distance of at least 20cm from all persons and must not be co-located or operating in conjunction with any other antenna or transmitter.