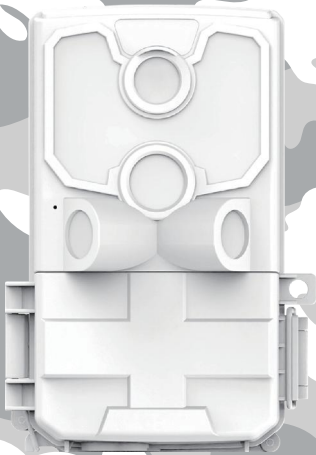


 **UsaGuard**

TC91



User Manual

Trail Camera with WiFi & Bluetooth

Thank you for purchasing Usogood brand trail cameras.

To make it easier for you to use this camera, please read this manual carefully before using it!

Usogood has always been committed to creating high quality products and bringing 100% satisfaction to our customers. We value every customer's opinion. If you encounter any problem in using the camera, please contact us and we will help you to solve any problem about the product.

Warranty

Send your amazon order number to email **support@usogood.co** to extend your warranty to 2 years. Usogood will provide you with free lifetime technical support

Contact

Email: **support@usogood.co**

Official Website: **www.usogood.co**

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.
- (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 a minimum distance of 20cm between the radiator & your body.

CONTENTS

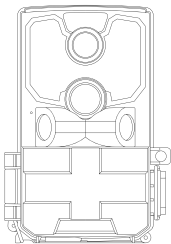
● About Usogood trail camera	4
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• About Usogood trail camera

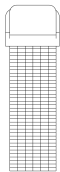
Sensor	CMOS,48MP
Lens	F/1.6 f=4mm, FOV:90°
Storage Media	Support SD card, U3 or above, up to 128GB
Trigger Speed	0.3s
IR LED	850nm/36pcs
PIR sensitivity	High / Medium / Low (optional)
PIR Detection Distance	Max 65ft
PIR Detection Range	120°
PIR delay	5 seconds ~ 59 minutes 59 seconds (optional)
LCD Screen	2.0-inch color IPS HD screen
Working Mode	Photo Mode/Video Mode/ Photo+Video Mode/Time Lapse Video
Photo Format	JPEG,3MP/5MP/8MP/12MP/16MP/20 MP/24M/30M/48M (optional)
Video Format	MP4, H.264, 4K/30fps, 2K/30fps, 1080/30fps, 720/30fps (optional)
Image Length	5 seconds to 3 minutes (optional)
Microphone	Built-in
Speaker	Built-in
Temperature Detection	Support
Operating Voltage	DC 6V
WiFi	Yes, connect to the App via the WiFi of camera. App <Trail Hunter>
Bluebooth	Yes, Bluetooth is used to activate WiFi of camera
Battery Type	8x 1.5V AA batteries
External Power Supply	DC 6V/2.0A
Language	English/French/Spanish/ Portuguese/German/Italian/ Simplified Chinese/Traditional Chinese/Russian/Japanese
Waterproof Level	IP66
Dimensions	146 (L) × 101 (W) × 86 (H) mm
Weight	About 286±5g (without battery)

• Package List

Please carefully unpack camera and check that below accessories are contained in the box. If any parts are missing, please contact us via email support@usogood.co



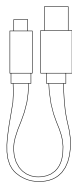
Wildlife Camera x 1



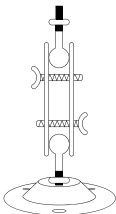
Mounting Belt x 1



User Manual x 1



USB cable x 1



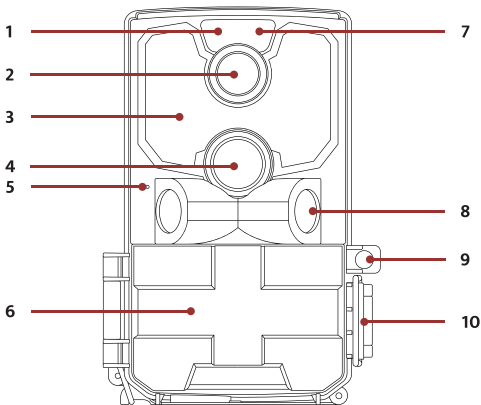
Wall Mount x 1



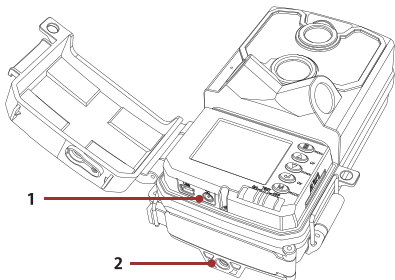
Screws x 3

• Functional Features

It is a high-definition wildlife camera, which supports night vision, has rainproof capability and can work automatically outdoors all day long. When people or animals intrude into the field of camera view, the camera will automatically take photos or videos. It will be in standby mode if no people or animals trigger it. It is widely used in animal tracking, hunting, farm monitoring and other scenarios.



1. Working indicator light	6. Housing front cover
2. Lens	7. Light sensor
3. IR LED	8. Side PIR sensor
4. Main PIR sensor	9. Lock hole
5. Microphone	10. Latch



1	DC IN interface
2	Tripod mounting hole
Key	Function Description
<p>TEST ON —○—○— OFF</p>	<p>ON: Monitor shooting mode. (After 5s the screen will go out and the camera will start working.) TEST: Setting mode. set parameters, preview, test shooting, playback, etc. OFF: Turn off the camera</p>
MENU	Enter menu/return to the previous menu
MODE	Switch the preview Mode: recording/shooting/playback
UP	Page forward
DOWN	Page backward
OK	Confirm execution

• How to Use

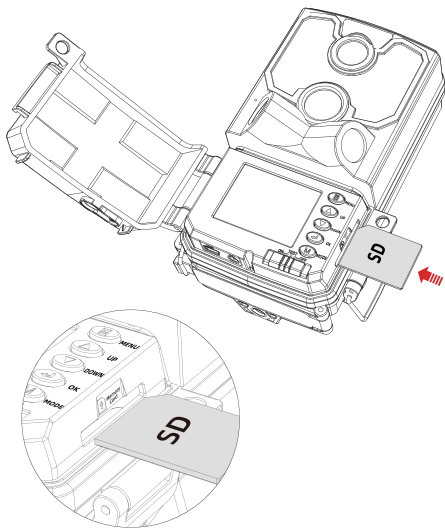
Scan the QR code to learn how to operate the camera



Below is the detailed graphic procedure

1. Insert the memory card

The camera uses U3 or above SD card up to 128GB, please format the memory card on the computer and install it as shown in the figure:



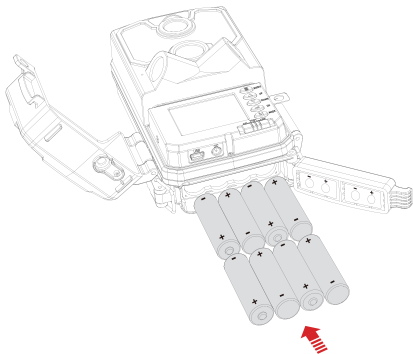
Note:

Turn off the camera before removing or inserting the memory card, otherwise the memory card may be damaged or data may be lost.

2. Install the batteries

The camera uses 8x 1.5V AA batteries or 1.5V rechargeable batteries for power supply, please install the batteries as shown in the figure:

Switch to TEST mode, the screen will light up, indicating that the battery is installed correctly.

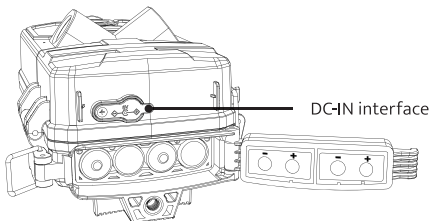


Note:

- Insert batteries in the specified direction, and do not mix old and new batteries. After installation, the lock must be fastened.
- Do not use 1.2V rechargeable batteries, insufficient voltage may cause night vision does not work

3. Using an external power supply

To ensure long working hours, the camera can use an external power supply. the DC-IN interface are as shown in the figure:



Note:

Please use DC 6V/2.0A external power supply and 3.5mm interface.

Do not remove the internal battery when using an external power source. When the external power supply is not used, the waterproof plug must be covered.

• **Test the camera and PIR sensors before use**

Insert 8x 1.5V AA batteries and a formatted memory card. Switch to **TEST** mode, waving your hand in front of the camera lens. If the red light is flashing, it indicates the side PIR sensors are working properly and the if green light is flashing. It indicates the main PIR sensor is also working properly.

To ensure that the camera works properly, please take a test shot before use.

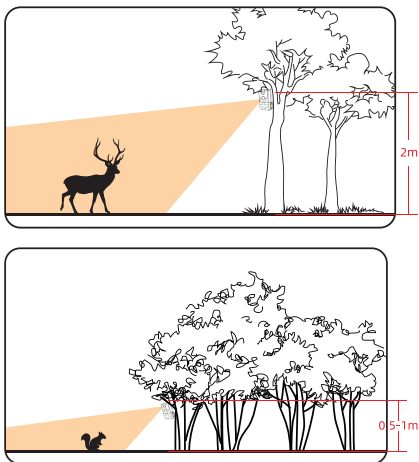
Switch to **TEST** mode and press **OK** to take a picture. Press **MODE** button to enter recording mode. Press **OK** to take a video. Press **MODE** to enter playback mode, watch back the video and photos were taken, and check whether the camera is working properly.

• **Setup the camera**

1. Insert the formatted SD card
2. Insert 8 brand new 1.5V AA batteries
3. Switch to **TEST** mode
4. Press **MENU** to set parameters
5. Place the camera on a suitable placement
6. Switch to **ON** mode
7. The camera works after 5s countdown

Note: After 5s countdown, the screen will turn black, at this time, please wait for another 30s to activate the internal analogue circuit, during this time, the camera does not take pictures.

• Install the Camera



Note:

- The detection range of the PIR sensor is 120°. Please adjust the mounting height and angle according to the size of the animals, and align the main sensor to the capture area to ensure no motion is missed.
- To ensure the camera does not unnecessarily record irrelevant action, please avoid direct sunlight.

• WiFi Connection and APP Control

TC91 trail camera supports cell phones to connect to the camera through the built-in WiFi.

After successful WiFi connection, via APP you can

1. Check the detection range of the camera on your phone when install the camera.
2. Adjust camera parameters without removing the camera.
3. View and download photos and videos without removing the SD card.

Install APP

Please scan the following QR code to download the APP or search the <Trail Hunter> APP in Google Play Store or iOS App Store.




Android/iOS

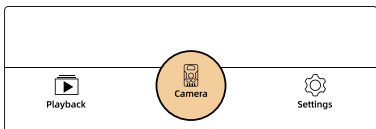


Connect the built-in WiFi via Bluetooth

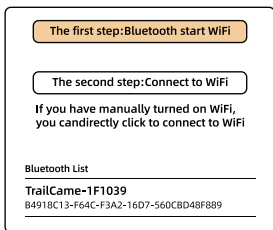


Turn on the camera, switch to TEST or ON button, Turn on the Bluetooth of the mobile phone and open the APP.

Click the camera icon () of the app



click <The first step: Bluetooth start WiFi>, then the Bluetooth devices list will pop up, Click the Bluetooth device named <TrailCam-XXXXXX> in the Bluetooth list, the page will display <The Bluetooth connection is successful>.

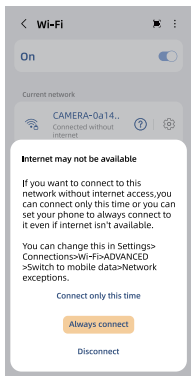
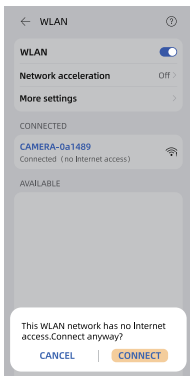


Connect to WiFi

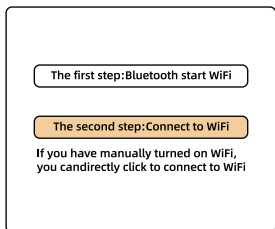
Note: Android users please read the following tips before connecting.

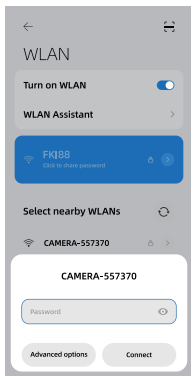
When connecting to WiFi hotspots that do not have Internet, Android will prompt: whether to continue to connect or keep the current WiFi, you need to select <Yes> or <connect>, if you accidentally select <Cancel>, <Disconnect> or <Switch>, it will cause the camera can not connect to the phone, please click <CAMERA-XXXX> to reconnect.

Different brands of cell phones will have different prompt windows, the following are references.



Please connect to the device WiFi, click <The second step:Connect to WiFi>, the page will jump to the WiFi list of the phone settings, click <CAMERA-XXXXXX>, and enter initial password: 12345678 to join the network.





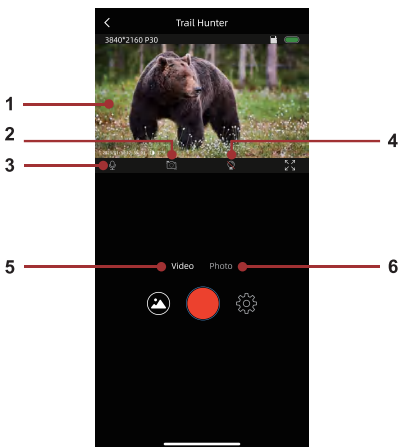
After the connection is successful, return to the APP, it will display the camera preview screen, and a prompt on the camera screen: <The device is connected.> You can operate the camera on the APP.

Note:

- The camera wifi doesn't work with home router. After successful connection, it is normal for Android users to have no Internet.
- The connection between the mobile phone and the camera needs to be buffered, please wait patiently for 3s to 5s to complete the connection. If the phone does not search the camera's WiFi <CAMERA-XXXXXX>, please turn off the phone's WiFi settings first, and then turn it on again.
- If the phone cannot search for wifi hotspots, please check whether the battery capacity is low or exhausted. Activating WiFi requires high current support, APP cannot be opened under the low power condition.
- To save power, if the phone does not connect to the camera WiFi within 1-3min, WiFi will be turned off automatically. Please turn on the camera WiFi again.

APP Function Introduction

Video mode



1	Camera monitoring screen
2	Video screenshot button
3	Recording Switch
4	Turn on/off the night vision function
5	Click to Switch video mode
6	Click to Switch photo mode

Photo/Video mode

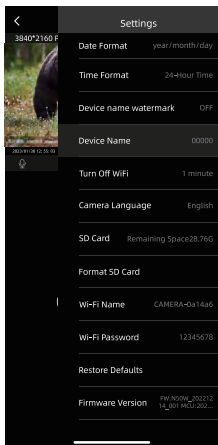
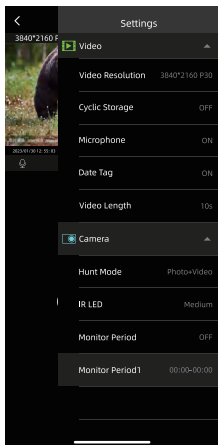
Click (●) switch to taking pictures or videos.

View photos and videos

Click (📷) to enter the album to view photos and videos, and you can also download and delete photos and video files.

Set camera parameters

Click(⚙️) to set the camera parameters and functions in APP.



• Menu Setting

Note: Switch to the **TEST** mode to set the camera parameters. After the settings are completed, switch to **ON** mode and the camera will work according to the set parameters. The functions of the section are explained below.

Loop Storage

When this function is activated. The camera continues to record and save new files when the memory card is full. The old file will be overwritten.

Note: If the SD card is not formatted, this function will not work.

PIR Interval

After completing a shooting, how long will the infrared detection start again after the interval.

The Camera's PIR Photography Principle: In the detection range, if the camera detects a temperature change, the camera will automatically take photos after the PIR interval, if the camera doesn't detect the temperature change, it won't

Take photos.

Note: The PIR interval affects the battery life of the camera. With a short interval, the camera is more likely to capture the target, but consumes more power.

PIR Sensitivity

Adjust the sensitivity according to the animal size and the ambient temperature. For example, set high sensitivity when photographing small animals (such as hedgehogs) and adjust the sensitivity to low in cold weather. The specific adjustment scheme is subject to the actual effect.

Note: PIR sensitivity affects camera battery life. Select high sensitivity, the camera is easier to capture the target but consumes more power.

IR LED

In the dark, the camera is illuminated by infrared LEDs the brightness of which can be adjusted. Infrared LED brightness affects battery life and night vision

In a completely light-free environment, it is recommended to use the high mode and in an environment with other auxiliary light, please use the middle or low mode

Side PIR Setup

The camera has three PIR sensing windows, the middle is the main sensing window, and the left and right are side sensing windows.

This function opens or closes the sensor windows on both sides. When you select OFF side PIR, the camera detection angle will become smaller.

Note: Turning off the side PIR can reduce the false triggering of the camera and save power, but the detection angle of the camera becomes smaller.

Monitoring Period

Set the monitoring start and end time, the camera will automatically monitor and shoot during the set period, and the camera will not work at other times. Turn off the

monitoring period, the camera will automatically monitor the shooting at any time.

Note:

- After the monitoring period is set, the camera will not shoot outside the set period.
- The start time of the **monitoring period** must be later than the camera system time. Otherwise, the set time period will take effect the next day.

Time-lapse

The camera has a time-lapse video function. This is a time-compressed shooting technique, that is, a frame is shot every certain time and synthesized into a shorter video file. It is generally used to shoot images that change slowly, such as the process of flowers blooming.

This function can turn on or off the timing shooting, and set the interval time of the time-lapse video (that is, how long to take a frame at intervals), it can be used together with 4.6 target recording time.

Turn off **Monitoring Period** and turn on **Time Lapse**, the camera will always work and synthesize video files. Turn on **Monitoring Period**, turn on **Time Lapse**, within the set time period, the camera will always work and synthesize video files according to the set time. The camera does not work outside the set monitoring period.

• Trouble Shootings

Questions: The camera can't be turned on	
Possible Causes	Corresponding Solutions
The battery type is incorrect or installed incorrectly	Please replace with new 8x 1.5v aa batteries, install the battery correctly according to the instructions on the battery cover or the manual
Wrong specification or wrong connection of external power supply	Use DC 6V/2A, 3.5mm interface external power
Check if the switch has been adjusted to the 'on' mode	Switch to the TEST Mode mode for parameter setting . After setting , switch to the ON Mode and the screen will turn off when the 5s countdown ends and enter the working mode.
Working temperature is too high or too low	Operating temperature: 5°F to 120°F
Questions: The camera turns off automatically	
Possible Causes	Corresponding Solutions
Low battery level	Replace the battery with a new one or use an external power supply
Questions: The camera works fine during the day , but the pictures are black at night	
Possible Causes	Corresponding Solutions
Low power supply or incorrect use of external power supply , resulting in the ir lamp not working properly	Use new batteries or an external power supply that meets the requirements

Questions: Memory card cannot save photos or videos	
Possible Causes	Corresponding Solutions
Power outage before file storage	Replace with new batteries or use an external power supply
Questions: It shows 'SD card Error'	
Possible Causes	Corresponding Solutions
Memory card is not formatted	Please format the SD card on the computer first and format it again when it inserted into the camera.
Questions: camera dies while working	
Possible Causes	Corresponding Solutions
Low power supply or incorrect use of external power supply	Use new 1.5V batteries
Questions: all buttons are inactive	
Possible Causes	Corresponding Solutions
Short circuit when the camera is connected to other devices	Unconnected, reboot the camera and connect it correctly.
A button is stuck	Press to check each button , reboot Camera

Questions: the camera is power hungry	
Possible Causes	Corresponding Solutions
<ul style="list-style-type: none"> 1. PIR interval too short 2. PIR sensitivity too high 3. IR lamp brightness too high 4. Video length too long 5. High number of pictures taken 6. Frequent night-time photography or recording 	<ul style="list-style-type: none"> 1. Extended PIR interval 2. Turn down PIR sensitivity 3. Turn down IR light brightness 4. Reduce the length of the video (e.g. 5s) 5. Reduce the number of pictures taken(e.g. 1P) 6. Adjust parameters reasonably to reduce the time spent shooting at night or use an external power supply
Questions: camera leaks or fogs up	
Possible Causes	Corresponding Solutions
Waterproof ring with foreign objects or dislodged	Check the watertight ring, keep it clean and fit it correctly
Not fastened with latch or waterproof plug	Check carefully before use , fasten all latches and close all waterproof plugs
Incorrect use of the camera,e.G.Upside down	Install the camera correctly according to the instructions
If the camera gets fogged or gets water, but works fine. Please shut down immediately and remove the battery, dry the water mist with a dry towel, then open the camera cover, put it upright in a ventilated place, and use it after it is completely dry	
Questions: prompt for password error	
Possible Causes	Corresponding Solutions
Forgotten password	Enter the universal password 1111

Questions: Camera not working properly ,confusing functions	
Possible Causes	Corresponding Solutions
The pir sensor does not work when time-lapse recording is switched on or when a monitoring period is set	Turn off time-lapse recording and turn off monitoring periods,Restore the default settings and restart
Questions: It cannot be switched to video mode or photo + video	
Possible Causes	Corresponding Solutions
Time-lapse recording turned on	Turn off time-lapse recording Or restore the default settings and restart
Questions: The WiFi&Bluetooth connection between App and camera is stuck/ disconnected	
Possible Causes	Corresponding Solutions
Potential problems of interference	Due to the high repetition rate of 2.4GHz WiFi frequency, it has potential problems of interference. The camera has a possibility to be interfered by other devices(other routers, microwave ovens, Refrigerators and other electrical appliances), which leads to the WiFi signal reduction or easily disconnected.Please use the TC90 WiFi trail camera where there are few interference sources.
Questions: The phone can't search the camera's WiFi	
Possible Causes	Corresponding Solutions
	If the phone does not search the camera's WiFi "CAMERA-XXXXXX", please turn off the phone's WiFi settings first, and then turn it on again

Questions: The night vision effect is poor	
Possible Causes	Corresponding Solutions
Low battery	Check whether the battery is in low. The night shot requires to turn on ir leds, thus it will consume more battery power. Therefore, if the battery is insufficient, the night vision effect will be poor or even the night vision will not work. In this case, please check whether the battery is 1.5v(do not use 1.2v rechargeable batteries, sometimes even a brand new battery will not work due to insufficient voltage).
Shooting distance	In the field, the camera relies on ir leds to take photos or videos. If the subject(such as distant plants and small animals) is in a far distance, the photo or video will be fuzzy. Therefore, we recommend that the camera is installed at about 5 meters of the active range of the subject(the smaller size of the objects, the closer the distance is required).
Questions: No image on the APP	
Possible Causes	Corresponding Solutions
Solution for Android users	<ol style="list-style-type: none"> 1.Click the 'Settings' of the phone. 2.Enter the 'Mobile Network' interface. 3.Shut down the 'Data Network'. 4.Open the APP again.
Solution 1 for IOS users	<ol style="list-style-type: none"> 1.Click the 'Settings' of the iPhone. 2.Click into the 'Cellular'. 3.Turn off the 'Cellular Data' and turn on again.
Solution 2 for IOS users	<ol style="list-style-type: none"> 1.Click the 'Settings' of the iPhone. 2.Scroll down to find the installed APP, and click it. 3.Find the 'Location', and click it. 4.Selecting one of the two options: 'During the use of the APP' or 'Always'.

Questions:

Other questions

Possible Causes

The camera can be turned on, but other abnormalities occur

Corresponding Solutions

Try the following:

1. Replace the battery with sufficient charge.
2. Replace the memory card and format it with the camera.
3. Restore the camera to default settings and restart.