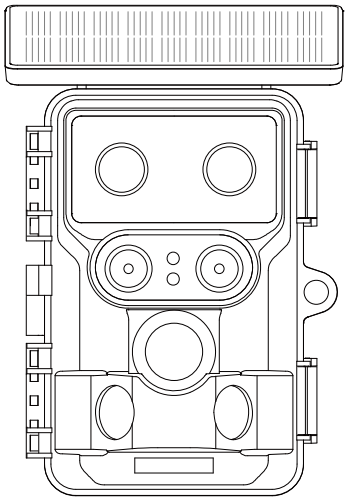
Instruction Manual

DUAL CAMERA SYSTEM

WiFi Trail Camera



4K VIDEO

CONNECTION

48.0 48 Megapixel

IP66 Waterproof

2.4" IPS TFT-LCD

0.3S Trigger time

120° 120° total PIR angle

4K Full HD Video function

Dear customer, congratulations on purchasing a high quality product.

You have purchased a Wildlife Camera with excellent technical features and respective accessory that is particularly easy to operate. Please study all notices carefully and diligently.Please study this information in detail observing, in particular, the safety instructions.

1. Contents of box

Carefully unpack camera and check that all of the following components are contained in the box:

1. Wildlife Camera 2.Mounting belt 3.USB cable

4.Instruction manual

Note:

- Remove the protective foil from the camera lens.

- Caution! Keep plastic foil and bags away from babies and small children, as otherwise danger of suffocation.

2. Contents

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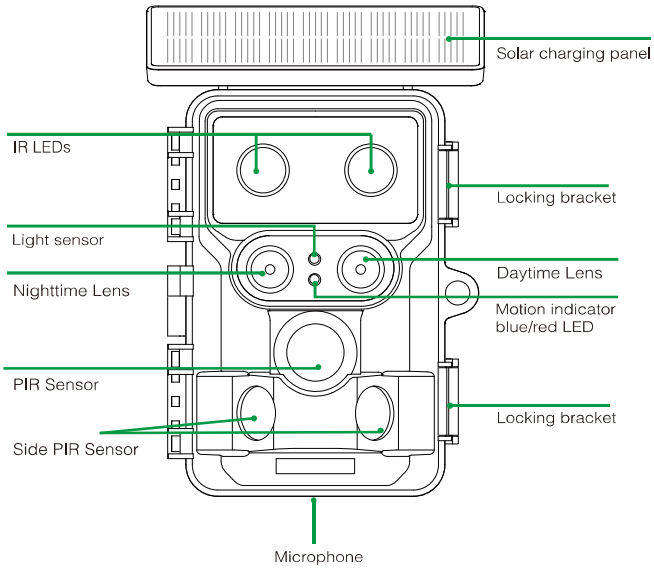
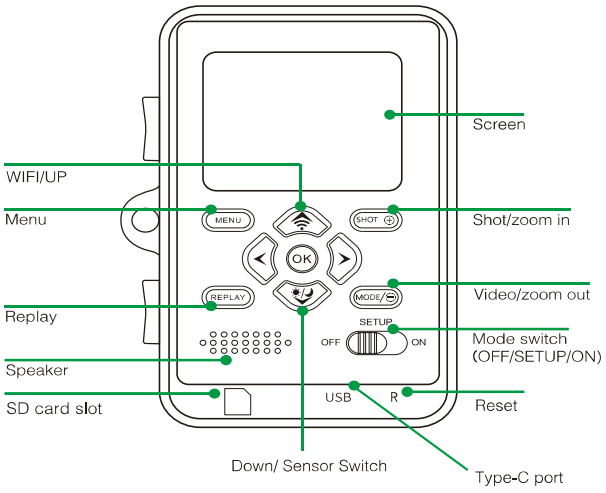
3. Camera Overview

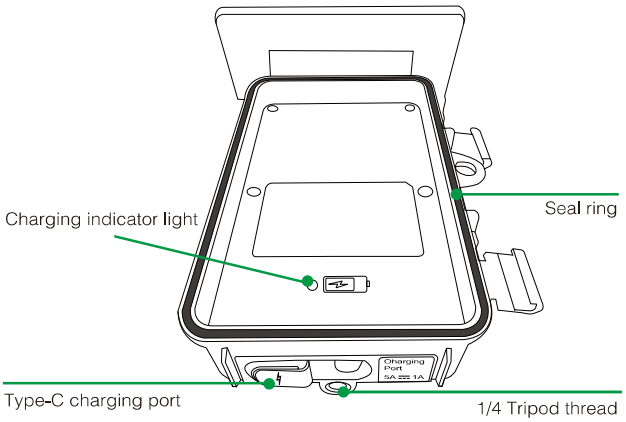
3.1. Front view



3.2. Inside view



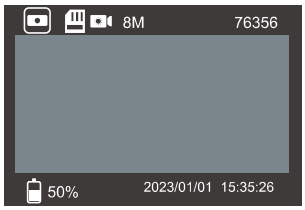
- The monitor is only switched on in the SETUP mode for changing menu settings or viewing existing photos.
- An SD or SDHC memory card must have been inserted into the memory card slot in order to save photos.
- Using the mode switch the three operating modes OFF, SETUP and ON can be selected.

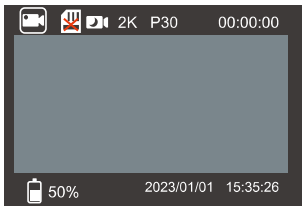


Note:

- **USB port:** Only used for connecting to a computer for data transfer and cannot be used for charging the camera.
- **Type-C charging port:** Used solely for charging the camera's lithium battery and cannot be used for data transfer to a computer.
- **Reset button:** When the camera experiences a freeze or malfunction during use, you can use a pointed object to press the "R" reset button on the bottom of the camera to perform a system reboot.

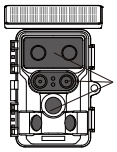
3.3. Viewscreen Indicators





	Photo/Video Mode
	Nighttime Photo/Video Mode
	SD Card Status
8M / 2K P30	Current Image Resolution/Video Resolution
76356 / 00:00:00	Image/Video Capacity Left
50%	Battery life
2023/01/01 15:35:26	Date and Time

4. Quick start guide

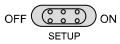


1. Remove the protective plastic covers from the camera lens, and PIR sensor.

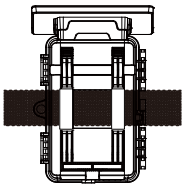
2. Install a new SD card, up to 256GB. High speed cards (class 10 or above) are recommended if you plan to record video clips. The new SD card are recommended to format with the camera before usage.

3. Download the free “WILDLIFE CAM” APP on your smartphone from the APP Store or Google Play. Or press the camera WiFi button and scan the QR code on the screen.

4. Open the APP and follow the prompts to connect the camera.



5. At the location where you will place the camera, move the power switch to the ON position. The camera’s default settings were chosen for typical usage as a scouting camera for hunters. Photo mode at 8MP resolution, with a 30 second interval between photos, and “Medium” PIR sensitivity. These settings may be easily changed to suit your individual preferences or application (for example, if you would rather capture videos, or photos at a different resolution, spaced further apart), using the app on your smartphone or menu in the camera. (Moving the power switch to the “SETUP” position)



6. Mount the camera using the provided tree strap or 1/4"-20 mounting socket.

5. How to install APP

The wildlife camera will work with a mobile APP that is compatible with IOS and android devices. Simple download the free "WILDLIFE CAM" app from the APP store or Google Play. Or scan the QR code as below (fig. 1) to install app. The app allows you full control of all camera settings as well as the ability to view pictures and video clips uploaded by your wildlife cameras.

WILDLIFE CAM
(fig.1)

- **Statement:** This app will not obtain any user information, let alone disclose personal privacy. Please feel free to use it. After installing the app, the mobile system will prompt for some permission settings the first time you use the app. Please select "Allow" to grant the necessary permissions for using the app.

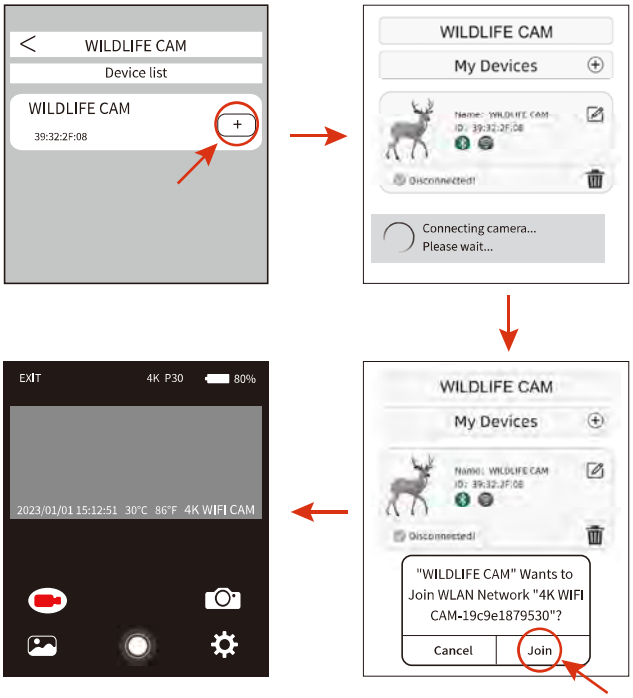
5.1. How to connect APP

1. Power on your camera and press the Mode switch to the "SETUP" or "ON" mode.
2. Upon opening the "WILDLIFE CAM" app on your mobile device and you would be at the Main page. On the Main page (fig.2), click the camera icon "+" on the lower right corner of the screen to start the connection

The following figure shows the interface changes during the connection process. (we take the ISO system as example)

(fig.2)

The following figure shows the interface changes during the connection process. (we take the ISO system as example)



As shown in the picture above, when the wifi icon turns green and also the wildlife camera display "wifi connected". That meants the APP has succesfully connected with your mobile phone. And then the mobile phone interface would jump to the real-time preview interface.

Note:

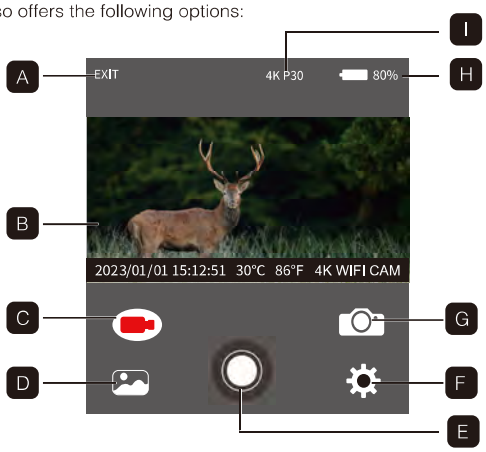
- Please make sure the wifi and Bluetooth function are opened in your mobile phone device.
- During the app connection, it would pop-up some window for questions, please choice the “Ok” or other agreement option. The ISO and Android 10 or above system would be a little bit difference interface. Just follow the specific prompts in your phone.

After the APP is successfully connected to the camera device for the first time, the APP will automatically save the connected camera device in the "My Devices" list. When the user opens and uses the APP again, it will directly jump to the "My Devices" list. Click the selected camera device in the list to automatically connect to the APP, as shown below.

⊕	Search for the camera device
	Modify the camera name in the APP display. This is only easy for users to identify the camera if they use some cameras in the APP. Please note that the modification only for the app interface not real in the camera. The camera name display in the camera still not changed.
	Delete the camera saving record in the camera list

5.2. Live screen of APP

The live screen of APP shows the current live image from the wildlife camera and also offers the following options:



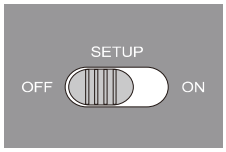
A. Exit the APP
B. Live image
C. Video mode
D. Image or video preview
E. Release button
F. Settings
G. Photo mode
H. Battery life
I. Current picture or video resolution

6. Using the camera

Prior to setting up the camera for surveillance, it must be set up for the respective purpose. For this purpose, there is a setup mode available. In addition to changing settings, photos and videos can be taken and existing photos can be viewed in this mode.

6.1. Mode switch

The Trail Camera has three basic operational modes:



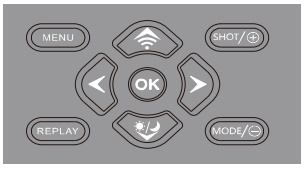
- **OFF** mode: Power switch in the OFF position.
- **ON** mode: Power switch in the ON position (LCD screen is off).
- **SETUP** mode: Power switch at SETUP position (LCD screen is on).

6.2. Operating buttons

In the SETUP mode you can check and change the settings of the Trail Camera's with the help of its built-in LCD. These settings, found in the SETUP Menu, let you change the photo or video resolution, interval between photos, switch the time imprint on, etc. Moving the power switch to the SETUP position will turn on the LCD display, and you will see an information screen that shows how many images have been taken, the battery level, camera or video mode, etc.

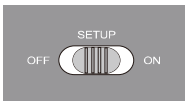
Note:

- Always move the power switch from OFF to SETUP mode. It is possible that the camera could lockup if it is switched from ON to SETUP mode. If this occurs, simply move the switch to OFF and then push it up to SETUP again.



6.3. Settings Menu

Slide the mode switch to the SETUP position to start the setup mode and then press the MENU button to call up the menu. All menu options and possible setting values are listed below. The standard default setting is always highlighted in bold.



- **Mode : Photo**, Video, Photo + Video
  Selects the format your camera will record in.
  Photo: For photos only.
  Video: For videos only.
  Photo+Video: A photo (multiple photos, if NUM PICS is set >1) followed by a video clip will be captured for each PIR trigger event.

- **PIR Interval:** Defaulted 30seconds, optional from 5seconds ~60minutes
  The PIR Interval option lets you set the time between captured images when an animal remains within the camera's sensor range after it is first detected and the camera is triggered. The camera does not record any images or videos during the selected interval. This prevents the memory card from being filled with unnecessary shots.

Note:

- The interval time is short, the camera shooting frequency would be high, and there would be high consumption of batteries. It would effect the usage days of the batteries. It is just on the opposite ,the interval time is long, would be a lower consumption of batteries to guarantee a long time usage.

- **PIR Sensitivity:** High/ **Medium**/ Low
- **Time lapse: Off**/On

  When “on” has been selected, the camera would automatically take photos/ videos in the selected time interval, irrespective of whether or not the PIR sensor has detected a motion or not. This is useful for observing cold blooded animals e.g. snakes or plants opening up, etc.

  As soon as the "On" setting has been confirmed by pressing the **OK** button, you can enter the interval time after which photos/ videos are to be taken.

  Note:
  - In this mode, the PIR function would stop working, and the camera would take photos/ videos in the setting interval time.

- **Night shoot mode: Auto**/ More Color

  "Automatic": In Automatic option, the camera would select the different lens according to the real condition of the brightness. In the full light condition, it would go for the 13MP sensor lens, and lower light condition would change to 2MP sensor lens. In the night time, it would always take black and white photos by 2MP sensor lens.

  "More Color": In the Color option, the only different with Automatic is the camera always take color photos even in the low light or night time condition. But in the night time condition, the photos would have many noises. It is better to use this function in the full light condition.

- **IR LED: Auto**/ Medium/ Low/ Off

  Set the infrared LEDs brightness.
- **Low Battery at Night: No IR Led**/ No Recording
  - **No IR Led:** The camera takes photos and videos without opening IR LEDs at night when battery is quite low.
  - **No Recording:** The camera doesn't take photos and video at night when the battery is quite low.

- **Monitoring Period: Off**/On

  Set timer to "On" if camera should only be active within a certain time. Once "On" has been confirmed with the OK button, the start and end time can be set.

  If the start time is, for instance set to 18:35 hrs and the end time to 8:25 hrs, the camera will be operational from 6:35 pm of the current day until 8:25 am of the following day. The camera will not be triggered and will not take any photos or videos outside of this period.

- **Side PIR Setup:** Off/**On**

  The two side PIR sensor zones provide a wide detection angle and detect more potential triggers.

  Sometimes you only wish to observe a certain point.

  Too many irrelevant triggers from the side sensor zones outside of this point continuously switch the camera on and off, considerably affecting battery life. In some situations it may be difficult to remove interfering branches or avoid sun light. In these situations you can switch off the side sensor zones.

- **Frequency:** 50Hz/**60Hz**

- **Image size** : Daytime/ Nighttime

  Daytimes: Selects resolution for still images from 2MP to 48MP. Higher resolution produces better quality images, but creates larger files that take up more of the SD card capacity. 13MP is the recommended default for good resolution and smaller size.

  Nighttime: 2MP is the recommended default for good resolution and smaller size.

- **Picture NO**: Selects how many images are taken in sequence per trigger. Default 1P.

- **Shutter speed**: 1/15, 1/20, **1/30**

- **Resolution**: Daytime/Nighttime

  Daytime: The default is 4K(3840 x 2160 30fps).

  Nighttime: The default is 1080P(1920 x 1080 30fps).

  Selects video resolution (in pixels per frame). Higher resolution produces better quality videos, but creates larger files that take up more of the SD card capacity (fills up faster).

- **Video Length**: Selects video recording length from 5sec to 180sec. The default is 10sec.

- **Record Audio**: 0ff/**On**

- **Language**: Select the desired menu language

  The following languages are available: **English**, German, French, Spanish, Chinese, etc.

- **Default setting(Reset to factory): Cancel**/OK

  Restores all settings to the factory defaults.

- **Format: Cancel**/OK

  Deletes (erases) all files stored on a card to prepare it for reuse. Always format a card that has been previously used in other devices.

  Caution! Make sure you have downloaded and backed up any files you want to preserve first! Press OK to execute, press MENU to exit without formatting.

- **Date / Time**: Set date and time

- **Time Format:** 12hour/ **24hour**

- **Date Stamp: On**/Off
  Selects whether the user wants to have the Time and Date stamped on images. The default mode is ON.

- **Beep Sound: On**/Off

- **Camera name:** 4K WIFi CAM****
  Allows you to enter a name for your camera that will appear on the image time stamp. Go to the "Delete" to erase the default name "4K WIFI CAM" and then enter the new name. Maximum allow 12 byte for the new name.

- **Password Setting: Off**/On
  After selecting "On" enter a four digit password to protect your camera against unauthorised access.

  This password must be entered each time the camera is switched on in the SETUP mode before the camera can be used.

Note:

- If you forgot your password, please unlock the camera with password "OPEN".

- **Password For APP**: **Off**/ On

- **Auto WiFi Off:** 1Minute/ **2Minutes**/ 3Minutes
  If the camera turns on the WiFi hotspot, but the phone doesn't connect to the WiFi hotspot successfully within selected time, then WiFi hotspot will disconnect automatically and the camera will return to SETUP mode or ON mode.

- **Auto Power Off: 3 min**/ 5 min/ 10 min/ Off
  If there is no operation more than the selected time, then the camera will turn off automatically in SETUP mode.

- **Backlight: 1Minute**/ 3Minutes/ 5Minutes/ Off
  The LCD monitor would automatically turn off after the setting time.

- **Version:** You can check the software version.

- **Mcu FW Update**

6.4. Mounting and positioning the trail camera mounting

After you've set up the camera's parameters to your personal preferences, you're ready to take it outside and slide the power switch to "ON". When setting up the trail camera for scouting game or other outdoor applications, you must be sure to mount it in place correctly and securely.

We recommend mounting the trail camera on a sturdy tree with a diameter of about 6 in. (15cm). To get the optimal picture quality, the tree should be about 16-17 ft. (5 meters) away from the place to be monitored, with the camera placed at a height of 5-6.5 ft. (1.5~2 m). Also, keep in mind that you will get the best results at night when the subject is within the ideal flash range, no farther than 65ft/20m and no closer than 10ft (3m) from the camera.

6.5. Sensing Angle and Distance Test

To test whether the trail camera can effectively monitor the area you choose, this test is recommended to check the sensing angle and monitoring distance of the trail camera. To perform the test:

- Switch the trail camera to the SETUP mode.
- Make movements in front of the camera at several positions within the area where you expect the game or subjects to be. Try different distances and angles from the camera.
- If the motion indicator LED light blinks, it indicates that position can be sensed. If it does not blink, that position is outside of the sensing area. The results of your testing will help you find the best placement when mounting and aiming the trail camera. The height away from the ground for placing the device should vary with the animal size appropriately. In general, 3 to 6 feet is preferred.

You can avoid potential false triggers due to temperature and motion disturbances in front of the camera by not aiming it at a heat source or nearby tree branches or brush (especially on windy days).

6.6. Switching ON the Camera

Once you switch to the ON mode, the motion indicator LED (red) will blink for about 5 seconds. This gives you time to close and lock the front cover of the trail camera and then walk away. During this time, the motion indicator LED will blink red continuously. After it stops blinking, the PIR is active, and any motion that is detected by it will trigger the capture of photos or videos as programmed in the SETUP Menu. Be sure you have read the descriptions of the Capture Number, Interval and Sensor Level parameters. Please note, the PIR is strongly sensitive to ambient temperature. The greater the temperature difference between the environment and your subject, the farther the possible sensing distance. The average sensing distance is about 60 ft.

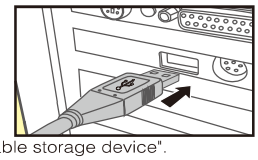
7. Connecting to computer

The Wildlife Camera can be connected to a computer using the supplied USB cables to view existing photos/videos.

System requirements

Windows	Macintosh
Pentium?III or higher	PowerPC G3/G4/G5
Windows?XP/Vista/7/8	OS 10.3.9 or newer system
512 MB RAM	512 MB RAM
1GB available hard disk space	1GB available hard disk space
Screen resolution 1.024 x 768 or higher	Screen resolution 1.024 x 768 or higher
Available USB connection	Available USB connection

1.Connect the camera to your computer using the USB cable.



2.The camera switches on automatically in the USB mode, irrespective of the selection on the mode switch.
3.The camera installs itself on the computer as an additional drive under the name "Removable storage device".
4.Double click on the device to detect the folder "DCIM".
5.The photos and videos are located in the sub folders of the "DCIM" folder.
6.You can copy or move photo and video files on the computer. Alternatively you can insert the memory card in a card reader on the computer.

Note:

- Mac computers show an "Unknown" drive on the desktop. When clicking on this drive, the program "iPhoto" is automatically started.

8. Technical specification

Daytime lens	High resolution 13MP SONY native sensor F=2.8mm, F/NO=1.9, FOV=80° Distortion: -1%
Nighttime lens	SENSOR: 200W F=4.0mm, F/NO=1.4, FOV=93°
Image size (Daytime lens)	48M:9248x5200; 36M:8000x4496; 24M:6544x3680; 13M:4832x2704; 8M:3840x2160; 4M: 2704x1520; 2M: 1920x1088
Image size (Nighttime lens)	4M:2704x1520; 2M: 1920x1088; 1M:1280x720
Display screen	2.4" IPS 320 x 240(RGB) DOT TFT-LCD Display
Triggering time	approx. 0.3 second; Pre boot 0.2 second
Video size (Daytime lens)	4K: 3840x2160 30fps; 2.7K: 2704x1520 30fps; 2K: 2560x1440 60fps; 2K: 2560x1440 30fps; 1080P: 1920x1080 60fps; 1080P: 1920x1080 30fps; 720P: 1280x720 30fps; 480P: 848x480 30fps; 360P: 640x368 30fps

Video size (Nighttime lens)	1080P: 1920x1080 30fps; 720P: 1280x720 30fps; 480P: 848x480 30fps; 368P: 640x368 30fps
Effectiveness	Daytime: 1 m-infinitive; Night time: 3 m-20 m
Storage formats	Photo: JPEG; Video: MPEG - 4 (H.264)
Detection angle of sensors	Central sensor zone: 60°; Side sensor zone: each 30°; Total sensor angle zone: 120°
Triggering distance	up to 20 meters
PIR Sensitivity	High/ Medium/ Low
WiFi	2.4~2.5GHz 802.11 b/g/n (High-speed up to 150 Mbps)
Bluetooth 5.0 frequency	2.4GHz ISM frequency
Recording medium	Supports SD/SDHC memory cards up to 256GB(optional)
Waterproof	IP66
Average battery life	approx. 12 months at 50 images per day average (with 8 batteries)
Operating temperature	-20 - 60°C (Storage temperature: -30-70°C)
Operating Humidity	-5%-90%
Connection	USB type-c
Dimensions	approx. 163 (H) x 112 (B) x 77.5 (T) mm

Note:

- Design and technical specification are subject to change.

9. Troubleshooting tips

1) Camera won't power on.

Possible Cause

- Batteries not fully installed, or not installed correctly.

Recommended Solution(s)

- Install new AA alkaline batteries.
- Make sure the positive (+) and negative (–) poles are lined up properly in each compartment, with (–) pole making contact with the spring.

2) Camera takes images without animals.

Possible Cause

- A "false trigger" caused by motion (branches, water, etc.) and/or high heat in front of the camera lens when there is no subject in the image.

Recommended Solution(s)

- Move camera to spot without branches or water close to camera.
- Change PIR sensitivity in menu settings.
- Move camera to inside area without movement to check and see if it still takes pictures without movement. Contact customer service for possible repair or replacement.

3) Camera responds slowly to movement, does not always capture image when triggered.

Possible Cause

- PIR sensitivity setting needs to be adjusted.

Recommended Solution(s)

- Go to "PIR Sensitivity" in the Setting Menu and increase the PIR sensitivity.

4) Battery life is shorter than expected.

Possible Cause

- Battery life will vary with operating temperature and the number of images taken over time. Typically, you will be able to capture several thousand images before the batteries die.

Recommended Solution(s)

- Longer delays will increase battery life.
  (you'll take less images and use less flash). Adjust these in the Settings Menu.

5) Camera stops taking images or won't take images.

Possible Cause

- The SD Card is full, in the locked position, improperly formatted, or the batteries are dead.

Recommended Solution(s)

- Check SD card. If full, download images, erase from card, reinstall empty card in camera.
- Move the "write protect" switch to the unlocked position.
- Reformat the card by using the "FORMAT" option in the Settings Menu.

6) Images appear off-color, ie. red, green, or blue.

Possible Cause

- Sensor is confused in certain lighting conditions.

Recommended Solution(s)

- If seen consistently, sensor may need repair. Contact Customer Service.

7) Videos are too short, not recording to the length set.

Possible Cause

- Batteries are low, SD card is full, or settings need adjustment.

Recommended Solution(s)

- Check battery power.
- Check SD card. Replace or erase if full.
- Adjust the video record length to avoid potential overheating of batteries and/or electronic components.

8) Forget the password of the trail camera.

Recommended Solution(s)

- Just enter the words "OPEN" to start the camera again.

9) Forget the WiFi password.

Recommended Solution(s)

- Default the trail camera to restores all settings to the factory defaults.
- And then the password is “12345678”

10) The Bluetooth couldn’t open the WiFi hotspot.

Possible Cause

- “Bluetooth” setting is off.

Recommended Solution(s)

- Go to the Settings Menu, select “Bluetooth”, select “ON”

10. SYSTEM INFORMATION, MAINTENANCE AND DISPOSAL

- Microsoft® and Windows® are trademarks of Microsoft Corporation registered in the US.
- Pentium® is a registered trademark of Intel Corporation. Macintosh is a trademark of Apple Computer Inc.
- SD™ is a trademark.

10.1. Care

Do not use any corrosive cleaners, such as methylated spirits, thinners, etc. to clean the camera housing and supplied accessory. When required, the clean system components with a soft dry cloth.

10.2. Storage

Always remove the battery from the housing if the camera is not being used for some time and store the battery separately. On a day to day basis and over longer periods the batteries can be kept at a dry location out of the reach of children.

10.3. Disposal

For disposal, separate packaging into different types and dispose of in line with environmental regulations in supplied collection containers. Batteries and storage batteries may not be disposed of in domestic waste. Consumers are obliged by law to return used batteries to communal collection points or dealers selling batteries. Storage batteries and batteries do therefore contain the adjacent symbol.

Correct disposal of product:
The adjacent symbol indicates that electrical and electronic equipment may not be disposed of in domestic waste in the EU. Please use the returns and collection points of your local council or contact your dealer you purchased the product from. This prevents potentially harmful effects on the environment and health as a result of incorrect disposal. For further information contact the respective department of your local council.

FCC warning statements:

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.

Caution: Any changes or modifications to this device not explicitly approved by manufacturer could void your authority to operate this 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.

The device has been evaluated to meet general RF exposure requirement 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.