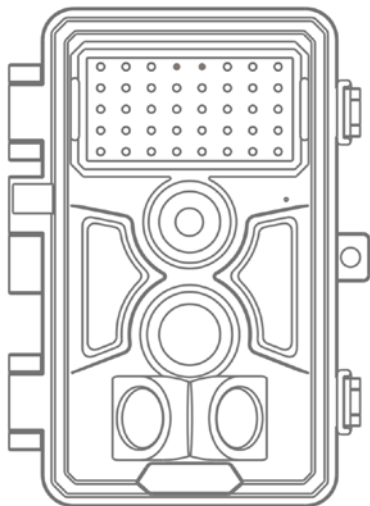


Zopu Trail Camera



Model: SL122M

INSTRUCTION MANUAL

V3.2

Congratulations on your purchase of one of the best trail cameras on the market! We appreciate your business and want to earn your trust. Please refer to the notes below and the instructions in this manual to ensure that you are completely satisfied with this product.

In case of any further questions or concerns, please get in touch with us at:

support@zopudt.com

or visit our page:

www.zopudt.com

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1. IMPORTANT NOTE

Require eight (8) 1.5V AA Alkaline or Lithium batteries (not included). We recommend the use of Energizer AA Lithium batteries in this camera to obtain maximum battery life.

Do not mix old and new batteries.

Do not mix battery type.

Rechargeable AA batteries are NOT recommended as the lower voltage they produce can cause operational issues.

Remove batteries when the camera is NOT in use.

Require a regular SD memory card, up to 32GB (not included). We recommend using SanDisk 32GB SDHC/Class10 memory cards in the camera to obtain the best performance. Format the SD card before use by the “Format” command in the camera MENU settings.

Before use, please remove the protective films on the front of the camera to get the best performance.

*** TROUBLESHOOTING ***

If your camera does not seem to be functioning properly or if you are having photo/video quality issues, please check the Troubleshooting/FAQ section.

Problems are often due to something simple that was overlooked, or require only changing one setting to solve.

If your unit is still having trouble, please feel free to contact us.

2. INTRODUCTION

2.1. ABOUT THE CAMERA

The camera is a digital scouting camera, it can be triggered by any movement of game in a location, detected by a highly sensitive Passive Infra-Red (PIR) motion sensor, and then take high quality pictures (up to 20MP still photos), or video clips with sound.

The camera consumes very little power (less than 0.15mA) in a stand-by (surveillance) state. This means it can deliver up to six months standby operation time when the device is powered by eight AA alkaline batteries. Once motion in the monitored area is detected, the digital camera unit will be triggered at once (typically approx. 0.2~0.6 second) and then automatically take photos or videos according to previously programmed settings. The camera is equipped with built-in infrared LEDs that function as a flash (invisible to human eyes), so that it delivers clear photos or videos (in black & white) even in the dark, and it can take color photos or videos under sufficient daylight. The camera is designed for outdoor use and is resistant against water and snow.

Main features:

- Deliver high quality pictures (up to 20MP still photos) or full HD video clips with sound recording. The camera is equipped with dedicated large aperture, full glass lens and deep imaging optimization, take color photos or videos under sufficient daylight
- Clear night vision, up to 65ft/20m distance. The camera is equipped with 38pcs built-in high efficiency infrared LEDs that function as a flash (invisible to human eyes), delivers clear photos or videos (in black & white)

- Easy to use/program with unique well-designed keypad and built-in 2.4-inch LCD color screen, easy to review pictures and videos on the screen
- 3 optional live working modes - Camera only, Video Only, Camera + Video
- Fast trigger time approx. 0.2~0.6 second, Long trigger distance up to 82ft/25m, Wide detection angle 120°when side motion sensors enabled, Wide view angle 90°
- Date, Time, Temperature & Moon Phase Imprint in the pictures
- Timer (Operation hours), Time Lapse, Serial Number, Lockable and password protected, Loop Recording
- IP66 Waterproof. The camera is designed for outdoor use and is resistant against rain and snow
- Support SD/SDHC memory card up to 32GB (*user supplied*)
- Extremely long in-field battery life up to six months in standby mode with 8 AA batteries (*user supplied*)

2.2. APPLICATIONS

The camera can be used as follows:

- For hunting, trail animals' trace or habit
- For wildlife observing and researching, captures pictures and videos of wild animals
- As sports camera, for riding, driving, camping or exploring
- As motion-triggered security camera, for home, farm, office and community
- All other indoor & outdoor surveillance where invasion evidence needed

3. PARTS AND CONTROLS

The camera is equipped with 38pcs built-in high efficiency infrared LEDs, LED Indicators, Lens, PIR Sensors, Lock Holes

in front view (*Figure 1*).

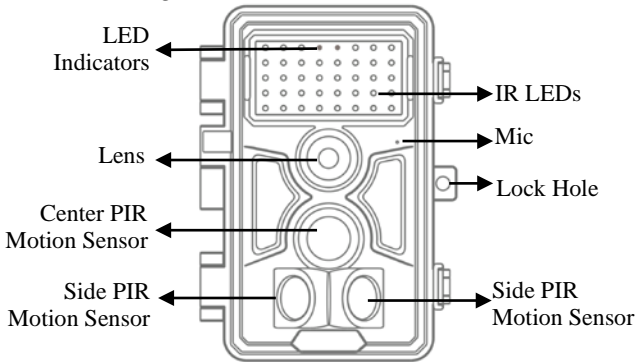


Figure 1: Front View

The camera provides the following connections for external devices: Mini USB port and regular SD card Holder (*Figure 2*).

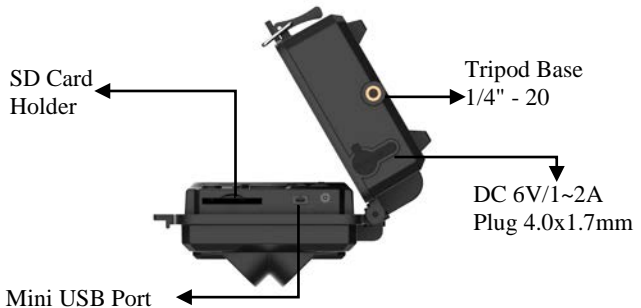


Figure 2: Bottom View

The camera has two strap holes on the back. The strap can be put through the strap holes and fastened securely around the tree trunk by pulling the end of the strap firmly (*Figure 3*).

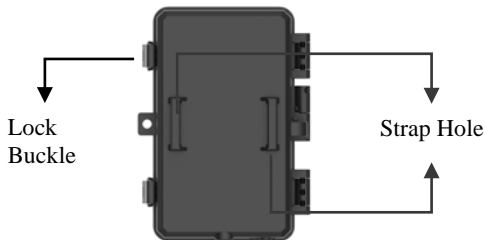


Figure 3: Back View

The camera has a 2.4inch built-in LCD color screen, which can be used for reviewing pictures or videos and menu displaying, and unique keypad design for easy program and operation, 8 AA batteries compartment supported (*Figure 4*).



Figure 4: Inside View



Figure 5: Keypad and Shortcut

A 3-way power switch is used to select the main operating modes: **OFF, ON, and SET** (*Figure 5*).

A control key interface with six keys is primarily used in **SET** mode to select operational functions and parameters. As shown in *Figure.5*, these keys are: **UP, DOWN, LEFT, RIGHT, OK** and **MENU**. Four of the keys can also perform a second function (shortcut operations in SET mode) in addition to their main function: The **DOWN** key can be used to set the camera to Camera mode, and the **UP** key can set the camera to Video mode. The **RIGHT** key also serves as the manual shutter ("SHOT") button of the camera and the **OK** key switches the camera to the **Playback** ("**REPLAY**") mode. These secondary functions are indicated by icons or text above the key as show in *Figure 5*.

4. INSTALLING THE BATTERIES AND SD CARD

Before you begin learning how to use your camera, you will first need to install a set of batteries and insert an SD card. Although that may only take you a minute, there are some important notes about both batteries and SD cards you should be aware of, so please take the time to **read the following directions and cautions**.

4.1. LOADING BATTERIES

After opening the cover of the battery slot, you will see that the camera has eight battery slots (*Figure 6*). A full set of four or eight batteries must be installed for the camera to operate. Be sure to insert each battery with correct polarity (negative or "flat" end against the long spring of each battery slot).

The camera takes 1.5V AA Lithium or Alkaline batteries. We recommend using 1.5V Lithium AA batteries (Energizer brand) to get maximum batteries lifetime. NiMH Rechargeable can

also be used, but they might have a shorter life span due to their reduced efficiency over time and at low temperature.

On **SET** mode when battery power level gets low, the message "**Low Battery**" will show on the screen, please replace the batteries. And if the message "**Night vision is unavailable in low voltage**" shown on the screen, that means the batteries don't have enough power to driver IR LEDs working, you have to replace the batteries if you want the camera take pictures or videos at night, but the camera still can work at daytime.

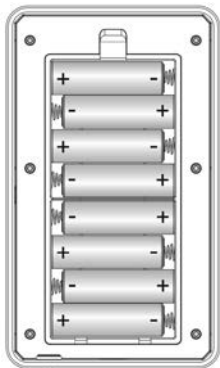


Figure 6: Loading the batteries

4.2. INSERTING THE SD CARD

Insert the SD card (with the camera's power switch in the **OFF** position) before beginning to operate the camera. Don't insert or remove the SD card when the power switch is in the **ON** position. The camera uses a regular SD (Secure Digital) memory card to save photos (in .jpg format) and/or videos (in .avi format). SD and SDHC (High Capacity) cards up to a maximum 32GB capacity are supported (*Figure 7*).



Figure 7: Inserting the SD Card

Please make sure that the write-protect switch on the side of the card is "**OFF**" (NOT in the "Lock" position). The following describes how to insert and remove the SD card:

- Insert the SD card into the card slot with its label side upwards. A "click" sound indicates that the card is installed successfully. If the wrong side of the card is facing up, you will not be able to insert it without force—there is only one correct way to insert cards. If the SD card is not installed correctly, the device will not display an SD card icon on the LCD in **SET** mode (*the SD card icon displayed after switching to SET mode will have a "lock" symbol inside it in it if the card is locked*). Formatting the SD card by using the camera's "Format" parameter before using it for the first time is recommended, especially when a card has been used in other devices.
- To take out the SD card, just gently push in the card (do not try to pull it out without pushing in first). The card is released from the slot and ready to be removed when you hear the click. Be sure the camera's power is switched **OFF** before inserting or removing SD cards or batteries.

5. USING THE CAMERA

Once you've prepared your camera by properly installing batteries and an SD card, you could simply take it outside, strap it

to a tree (or not-according to your application scenario), switch it **ON** and leave-and you might get some great photos that are exactly what you wanted. However, we highly recommend that you first spend some additional time indoors with this manual and your camera until you know a bit more about what the 3-way switch and those control keys do. If nothing else, you'll probably want to at least set the date and time so the camera will imprint them (or not-it's your option) on your photos as they are taken, learn how to set the camera to shoot video clips instead of still photos if you like, and read some tips about mounting it on a tree.

6. THE OFF, ON, AND SET MODES

The camera has three basic operational modes:

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

6.1. OFF MODE

The **OFF** mode is the "safe" mode when any actions must be taken, e.g., replacing the SD card or batteries, or transporting the device. You will also use **OFF** mode (**ON** or **SET** is available) if you connect the camera to a computer's USB port later to download your photos/videos. And of course, when you are storing or not using the camera, you will switch it to **OFF**. Please note that in the **OFF** mode the camera consumes little power. It's a good idea to take the batteries out of the battery compartment if the camera will not be used for a long time.

6.2. ON MODE

Anytime after the batteries and SD card have been inserted, you can switch on the camera. When the power switch is moved to

the middle position, the camera will enter into the **ON** (Live) mode. The motion indicator LED will blink blue for about 15 seconds. This interval allows time for you to close the camera's front cover, lock it, and leave the monitored area. Once in the **ON** mode, no manual controls are needed or possible (the control keys have no effect). The camera will take photos or videos automatically (according to its current parameter settings) when it is triggered by the PIR sensor's detection of activity in the area it covers.

You can either move the power switch directly from **OFF** to **ON** mode, or stop at the **SET** position first to change one or more settings, then move the switch to **ON** after you have finished doing so. ***NOTES: It takes approximately 60 seconds to fully activate PIR motion sensors. When the power switch is moved to the ON position, the camera does not immediately sense game motions and take pictures until the motion sensors are fully activated.***

6.3. SET MODE

In the **SET** mode you can check and change the settings of the camera with the help of its built-in LCD. These settings, found in the menu by pressing **MENU** key, let you change the photo or video resolution, interval between photos, switch the time imprint on, etc. (*See more in Section 7 ADVANCED SETTINGS*)

Moving the power switch to the **SET** 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.

Shortcut Keys/Functions

As mentioned earlier in "Parts & Controls", the keypads have secondary, "shortcut" functions when the camera is switched to **SET** mode (but the key has not been pressed):

- Press the **UP** key to quickly set the camera to shoot video clips.
- Press the **DOWN** key to quickly set the camera to take still photos.
- Press the **RIGHT** key to manually trigger the shutter. This is useful for testing the camera-make sure you are in **SET** mode, press the **RIGHT** key, and a few seconds later a photo or video (depending on how the camera was set) will be saved to the SD card. The "number of images taken" counter on the top right of the LCD will increase by one. If the display indicates "Card Protected" when you press the **RIGHT** key, turn off the camera **OFF**, remove the SD card and slide its protect switch off.
- Press the **OK** key to playback. Then press **UP** or **DOWN** key to navigate the history photo or video if you want. During playback, press the **MENU** key to manage the stored photos/ videos during scrolling photos or videos. You can **Delete one/ Delete All/Slide Show/Protect** the photos and videos you want. Press the **MENU** key again to back. **NOTE:** after deleting a picture or a video file, the deleted files can't be restored! It is also possible to delete all files from the card by using the Format parameter.

7. ADVANCED SETTINGS

The trail camera comes with preset manufacturer settings. You can change the settings to meet your requirements. Please make sure that the camera is in the **SET** mode. Once the camera screen is on, press **MENU** key to enter/exit the menu. Press the **UP/DOWN** key to move the marker, Press the **LEFT/RIGHT**

key to change the setting, and press the **OK** key to confirm the change. Always remember to press the **OK** to save the change. Otherwise you will lose your new setting.

| Parameter | Settings (Bold = default) | Description |
|---------------------------------------------------|--------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Mode | Camera, Video, Cam+Video | Select whether still photos or video clips are taken. In Cam+Video mode, the camera can first take photos and then shoot videos afterward. |
| Language | Multiple Languages | English/Chinese/French/Deutsch/Spanish/Portuguese/Japanese/Russian/Italian |
| Photo Size (affects still photos only) | 20MP 16MP 12MP 8MP 5MP 3MP | Select desired resolution for still photos from 3 to 20 megapixels. Higher resolution produces better quality photos, but creates larger files that take more of the SD card capacity. Besides, larger files require longer time to write to the SD card, which will slightly slow the shutter speed. |
| Video Size (affects video clips only) | 1920×1080 1280×720 720×480 | Select video resolution (pixels per frame). Higher resolution produces better quality videos, but creates larger files that take more of the SD card capacity. |
| Picture No. (affects still photos only) | 01 Photo, 02 Photo, 03 Photo | Select the number of photos taken in sequence per trigger in Camera mode. <i>Please also refer to the Interval parameter.</i> |
| Video Length (affects video clips) | AVI 5s, optional from 3s to 5m | Videos are in AVI format that can be played back on most video players. <i>Notes: Night videos are limited to a maximum of 30 seconds to conserve</i> |

| | | |
|--------------------------|-----------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| only) | | <i>the batteries.</i> |
| Interval | 10 seconds, optional from 0s to 60m | Select the shortest length of time that the camera will wait until it responds to any subsequent triggers from the PIR sensor after a game is first detected. During the selected interval, the camera will not take pictures/videos. This prevents the SD card from filling up with too many redundant images. 0 second means the motion detection is instant (without any delay). <i>Notes: this option is invalid if Time Lapse is "On"</i> |
| Sensitivity Level | Normal, High, Low | Select the sensitivity of the PIR sensor. The High setting suits indoors and environments with little interference, while the Normal/Low suits outdoors and environments with more interference. Temperature also affects the sensitivity. The High setting is suitable when the ambient temperature is warm, and the Low setting is helpful in cold weather. <i>Notes: this option is invalid if Time Lapse is "On"</i> |
| Set Date/Time | mm/dd/yyyy hh:mm | mm – Month dd – Day yyyy – Year hh – Hour (24h) mm – Minute <i>Notes: Use "LEFT/RIGHT" key to switch parameters, use "UP/DOWN" to set current date and time. Date input sequence may change. Please refer to "Date Format"</i> |

| | | |
|------------------------|----------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| | | <i>parameter settings accordingly.</i> |
| Date Format | dd/mm/yyyy yyyy/mm/dd mm/dd/yyyy | Select date format which will be shown on the screen and each capture. |
| Time Format | 24h 12h | Select time format which will be shown on the screen and each capture. 12h - AM/PM |
| Date Stamp | Off Date Date/Time | Select Date/Time if you want the date & time imprinted in every photo. Select Date if you want the date imprinted in every photo. Select Off to stop the date & time imprinted. |
| Sound Recording | On Off | Select On to enable video with sound recording. |
| Timer | On Off | Select On if you only want the camera to work within a specified time period every day. For instance, if the starting time is set at 18:35 and the ending time at 8:25, the camera will function from 18:35 the current day to 8:25 the next day. Outside the time period the camera will not be triggered or take photos/videos. The time is in 24h format. |
| Time Lapse | On Off | If set On , the camera will automatically take photos/videos according to the set interval, regardless of whether the PIR sensor has detected any game. This is helpful when observing cold-blooded animals like snakes, or the process of flowering, etc. You can set the “Begin” and “End” time. <i>Notes: Too small interval set in the Time Lapse Settings will</i> |

| | | |
|----------------------------|------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| | | <i>enable taking more pictures, and can consume more battery power and then reduce battery life.</i> |
| Password Set | On Off | Set up a password to protect your camera from unauthorized users. |
| Serial No. | On Off | Select On to assign a serial number to each camera you have. You can use the combination of 4 digits to record the location in the photos (e.g. 1234 for Yellow Stone Park). This helps multi-camera users identify the location when reviewing the photos. |
| Side Motion Sensors | On Off | Select On to activate the side motion sensors. It brings faster trigger speeds and helps capture fast moving animals. When any of the two side motion sensors detects a motion event, the camera will be pre-activated. If the animal enters the detection area of the center motion sensor within 5 seconds, the camera will start taking photos or videos according to the settings, otherwise the camera will re-enter standby mode again. |
| SD Card Storage | Stop saving when full Cycle storage | Cycle storage means loop recording. When the SD card is full, new pictures and videos will overwrite the front of the SD card and write from scratch. The default option is stopping saving when SD card is full. |
| Format SD Card | Yes No | All files will be deleted after formatting the SD card. Highly recommend you format the SD card if it has been used previously in other devices. <i>Caution: make sure wanted</i> |

| | | |
|------------------------|-----------|----------------------------------------------------------------------------------------|
| | | <i>files on the SD card have been backed up first!</i> |
| Default Setting | Yes No | Press OK to return all your previous settings back to the manufacturer default. |
| Version | Defined | Display the version of the camera. |

8. MOUNTING AND POSITIONING THE CAMERA

8.1. MOUNTING

After you've set up the camera's parameters to your personal preferences at home or in your trunk, you're ready to take it outside and slide the power switch to "ON". When setting up the camera for scouting game or other outdoor applications, you must be sure to mount it in place correctly and securely. We recommend mounting the 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 2.5*3.5 ft. (0.75-1m). 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 65' (20m) and no closer than 10' (3m) from the camera.

There are two ways to mount the camera: using the provided adjustable web belt, or the tripod socket.

Using the adjustable strap: illustrates using the strap on the camera. Push one end of the strap through the two brackets on the back of the camera. Thread the end of the strap through the buckle. Fasten the strap securely around the tree trunk by pulling the end of the strap firmly so there is no slack left (*Figure 8*). *Note: it is not possible to use a cable lock (in the upper part of the bracket) and the strap at the*

same time.

Using the tripod socket: The camera is equipped with a socket at the bottom end to enable mounting on a tripod or other mounting accessories with a standard *UNC 1/4-20* thread screw (*user supplied*).



Figure 8: Mounting the Camera

8.2. SENSING ANGLE AND DISTANCE TEST

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

- Switch the camera to the **SET** 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 (RED light) blinks, it indicates that position can be sensed. If it does not blink, that position is outside of the sensing area. *Notes: The red light will blink only when the motion is within the sensing area of the central PIR sensor. The central sensor's sensing angle of view is 60°. Each of the side sensors has a 30° angle of view, which is only used to accelerate the triggering speed, there is no RED light blinking whatever each of the side sensors*

detects motions. In these sensing test, no pictures are taken.

The results of your testing will help you find the best placement when mounting and aiming the 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).

Do NOT install the camera behind the glass window as that is not possible to sense any motion. Avoid the camera toward to glass object.

8.3. SWITCHING ON THE CAMERA

Once you switch to the **ON** mode, the motion indicator LED (blue) will blink for about 15 seconds. This gives you time to close and lock the front cover of the camera and then walk away. During this time, the motion indicator LED will blink blue 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 **SET** Menu. Be sure you have read the descriptions of the Picture No, Video Length, 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 45 ft.

Before leaving the camera unattended, please check for the following:

- Are the batteries inserted with correct polarity and is their power level sufficient?
- Does the SD card have sufficient available space and is its

- write-protection (lock) switch off?
- Is the Power switch in the **ON** position? (Do not leave it in **SET**).

9. REVIEW PHOTOS OR VIDEOS

After you have setup, mounted and activated your CAMERA, you will of course be eager to return later and review the images it has captured for you. The camera stores photos and videos in the folder \DCIM\100MEDIA in the SD card. Photos are saved with file names like DSCF0001.JPG and videos like DSCF0001.AVI. The AVI video files can be played back on most popular media players, such as Windows Media Player, QuickTime, etc.

There are several different ways this can be done.

You can directly review the photos or videos on the camera screen (see the instructions in Section 6.4)

Or in the OFF mode, you can use the provided USB cable to download the files to a computer.

Or you can put the SD card to a SD card "reader" (user supplied), plug in a computer, and browse the files on the computer without downloading.

10. TROUBLESHOOTING / FAQ

Q: Camera stops taking images or won't take images

1. Make sure that the camera power switch is in the "ON" position and not in the "OFF" or "SET" modes.
2. Make sure the camera had been powered up for more than 1 minute to ensure the PIR sensors have been fully activated.
3. Check the "Interval" parameter in **SET** mode, which is the delay between current capture and next capture, set "Interval" to a lower value if you want more captures.

4. Make sure that you are using a good quality SD card in your camera. We recommend SD/SDHC Class10 brand memory card (up to 32GB), such as SanDisk, Toshiba, Samsung, etc.
5. **IMPORTANT:** If you have used an SD card in another device before inserting it in your camera, you might want to try formatting the card using the "Format" parameter in SET mode (make sure you have backed up any important files first, as formatting will erase all previous files). In some cases, other devices may change the formatting of the SD card so that it will not work properly with the camera. Or if the SD card has been used for a long time, the SD card might be in unstable status and not able to accept data writing into, in this case, the camera behaves as not triggering and not taking pictures. so please re-format SD card and try again.
6. **IMPORTANT:** Check the batteries to make sure their power level is sufficient. If you are using rechargeable batteries, it would not take nighttime pictures or videos due to the low battery voltage and rechargeable batteries voltage generally drop down quickly. Please use 1.5V batteries instead.
7. Run motion detection test according to *Section 8.2. SENSING ANGLE AND DISTANCE TEST* of this user manual to check whether the motion sensors work.

Q: Camera *won't* power up

1. Make sure that you have installed eight batteries in the battery compartment, filling battery all spaces with no "gaps". We recommend using new eight high quality 1.5V AA batteries.
2. Make sure that the batteries are installed correctly, observing proper polarity. Always place the negative (flat) end of each battery in contact with the spring side of its slot inside the camera.
3. After moving the switch from "OFF" to "SET" or "ON", make sure that the switch is correctly in position to ensure the proper mode (avoid positions "between" two modes).

Q: Forget your password? How to reset the password?

1. Press and hold the "Right" arrow key.

2. Move the power switch to “SET” position.
3. The camera turns on and password cleared. (Notes: the camera would be reset to default settings.)

Q: Is it okay to use rechargeable NiMH batteries or lithium batteries?

Yes. Lithium batteries are better used in cold weather. We recommend using new eight 1.5V Lithium AA batteries (Energizer brand) to get maximum batteries lifetime. NiMH rechargeable batteries can also be used *but not recommended*, they might have a shorter life span due to their reduced efficiency over time and at low temperature, it can work at daytime, but not work well to take night picture or video as due to their lower voltage of 1.2V or less.

Q: Still Photo and/or Video Quality Problems

1. *Short video clips—not recording to the length set*
 - a. Check to make sure that the SD card is not full.
 - b. Make sure that the camera has good batteries in it. Near the end of the battery life, the camera may choose to record shorter video clips to conserve power and make sure that night vision clips quality is relatively acceptable.
2. *Night photos or videos appear too dark*
 - a. Check the battery indicator icon to see if battery power is full. The flash will stop operating near the end of the battery life.
 - b. You will get the best results when the subject is within the ideal flash range, no farther than 65' (20m) from the camera. Subjects may appear too dark at greater distances.
 - c. Please note that when the Photo No. parameter is set higher than "1 Photo", or with very short Interval settings, some images may appear darker than others due to the quick response and rapid retriggering of the camera, allowing less time for the flash to fully recharge before firing again.
3. *Night photos or videos appear too bright/blurred*
 - a. You will get the best results when the subject is within the ideal

flash range, no closer than 10'(3m) from the camera. Subjects may appear too light at closer distances.

- b. Adjust the camera installation position to make sure the orientation of the camera view angle is as parallel as possible to the ground.
 - c. Contact our customer service or visit our website to find if there is upgraded firmware available as commonly firmware can fix the issues.
4. *Daytime photos or videos appear too bright*
- a. Make sure that the camera is not aimed at the sun or other light sources during the day.
5. *Photos with streaked subject*
- a. In some cases with low lighting conditions and fast moving subjects, the 8MP or 12MP or 16MP or 20MP resolution settings may not perform as well as the 3MP setting.
 - b. If you have multiple images where fast moving subjects produce streaks on the photo, try the 3MP setting instead.
6. *Red, green or blue color cast*
- a. Under certain lighting conditions, the sensor can become confused resulting in poor color images.
 - b. If this is seen on a consistent basis, then the sensor may need servicing. Please contact our customer service.

Q: Camera takes great day time pictures, but night time pictures are *all* black.

1. Manually take pictures at low lighting place in **SET** mode.
2. Review the pictures on camera screen or your computer, if they are still all back, please check the version (by **MENU settings > Version**), send the version and the black pictures to our support email for further assistance.

Q: Camera takes continuous images of no subject

A camera has what is known as a "false trigger" if the PIR sensor thinks that there is motion and heat in front of the camera lens when there is no subject in the image. These "False Triggers" are the result of

placing the camera in an environment where there is motion associated with tree branches creating motion in front of the camera or an area where there is high heat in the foreground and any motion from wind could set off the camera. Setting a camera up over water is also a potential cause for this issue. To remedy this situation:

1. Try moving the camera to an area that does not have any of these issues or try changing the sensor level on the menu settings.
2. If the camera continues to take images when there is no subject in them, try placing the camera in an inside environment and aiming at a location where there is no motion.
3. If the camera continues to show issues, then there is probably an electronic component issue. If this is the case, please contact our customer service to send the camera back for repair.

Q: Battery life is shorter than expected

1. Battery life will vary with operating temperature and the number of images taken over time. Typically, the camera will be able to capture several thousand images before the batteries die.
2. Check to make sure you have used new batteries. We recommend using eight good quality lithium AA 1.5V batteries in all cameras to obtain maximum battery life.
3. Make sure that the power switch was turned to the "ON" position and that the camera was not left in "SET" mode while in the field.
4. Make sure that you are using a good quality name brand SD card in your camera. Our experience indicates that poor quality SD cards can sometimes reduce your camera battery life.

Q: There are problems with SD card access, such as the inability to delete photos, read/open photos or videos, etc.

This trail camera supports standard SD/SDHC memory card (Up to 32GB). In general, for better performance we recommend using brand SD card, such as Toshiba, SanDisk, Samsung, etc. Make sure the SD card have sufficient available space and its write-protection (lock) is switched off. When you first use the SD card with your camera, please format your SD card by using MENU settings > Format command.

Our experience indicates sometimes SD card might be in damaged or unstable condition, please replace SD card and try again. Or using SD card reader or computer slot, try to access it and check if the SD card does work.

Q: Photos Do Not Capture Subject of Interest

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

Q: PIR Sensor LED Flashes/Doesn't Flash

1. When the camera is in the "SET" mode, a special red LED on the front of the camera will flash when it senses motion. This is for setup purposes only and will help the user aim the camera.
2. During use, the LED will not flash when the camera takes an image. This is to help keep the camera hidden from game.

Q: Does the camera have a port for an external power?

Yes. The port is on the bottom of the camera. The camera can work with 6V/1~2A external power adapter/source (*user supplied*). The cable end of DC must be the circles of 4.0mm outside, 1.7mm inside (that is 4.0x1.7mm) and the central contact point is positive polarity. It is easy to find the cable or adapter on Amazon (searching the item by "DC 6V 4.0x1.7").

11. TECHNICAL SPECIFICATIONS

| Element | Description |
|-----------------------------|----------------------------------------------------------------------------------------------------|
| Max. Pixel Size | 5200 x 3900 |
| Lens | F=1.8; FOV=90°; Auto IR-Cut |
| IR Flash | 65ft/20m with 38pcs 940nm IR LEDs |
| LCD Screen | 2.4" color screen |
| Keypad | 6 Keys, 1 Power-Switch |
| Memory | SD or SDHC Memory Card (Maximum capacity 32GB, NOT INCLUDED) |
| Picture Size | 20MP; 16MP; 12MP; 8MP; 5MP; 3MP |
| Video Size | 1920×1080@25fps; 1280x720@30fps; 720x480@30fps |
| PIR Sensitivity | High/Normal/Low |
| PIR Sensing Distance | 82ft/25m (Below 77°F/25°C at the Normal Level) |
| PIR Sensing Angle | Total 120°(When side motion sensors enabled) Central Zone: 60°, Left Side: 30°, Right Side: 30° |
| Operation Mode | Day/Night |
| Trigger Time | Approx. 0.2~0.6 second (0.2s When side motion sensors enabled) |
| Trigger Interval | 0 Sec.-60 Min; Programmable |
| Shooting Numbers | 1~3 |
| Video Length | 3 Sec.~5 Min.; Programmable (Max 30s at night time to conserve batteries life) |
| Playback Zoom In | 1~8 Times |

| | |
|------------------------------|------------------------------------------------------------------------------------------|
| Time Stamp | On /Off |
| Timer | On /Off; Timer Set |
| Password | 4-Digit Numbers |
| Device Serial No. | 4-Digit Numbers |
| Time Lapse | 1 Second ~ 24 Hours |
| Language | English/Chinese/French/Deutsch/Spanish/Portuguese/Japanese/Russian/Italian |
| Power Supply | 8 x AA 1.5V Batteries (NOT INCLUDED) |
| Stand-by Current | 0.15mA |
| Stand-by Time | 6 Months (8 x AA 1.5V Batteries) |
| Auto Power Off | Auto power off in 5 minutes while no keypad controlling in SET mode |
| Low Battery Alarm | 4V - Low Battery (almost die) 4.6V - Night vision is unavailable in low voltage |
| Interface | Mini-USB; SD card slot; 6V DC External (6V/1~2A with 4.0x1.7mm plug, NOT INCLUDED) |
| Mounting | Strap; Tripod Nail (Thread: UNC 1/4-20) |
| Waterproof | IP66 |
| Operation Temperature | -4~+140°F/-20 ~+60°C |
| Operation Humidity | 5% ~ 95% |
| Certificate | FCC & CE & RoHS |
| Product Dimensions | 6.1 x 4.4 x 3.0 inches |

12. WARRANTY

ONE YEAR LIMITED WARRANTY

Your trail camera warranty covers your trail camera for one year after the original purchase date. We warrant that your camera will be free from defects in materials and workmanship when operated in normal use and conditions. This warranty does not cover consumer caused damages such as misuse, abuse, improper handling or installation, damaged caused by wild animals, or repairs attempted by someone other than our authorized technicians.

We will, at our option during the warranty period, repair your camera or replace it with the same or comparable model free of charge. This warranty only extends to the original retail buyer from our authorized dealer. Purchase receipt, order number or other proof of the date of the original purchase is required to receive warranty benefits. The warranty on any replacement product provided under the original warranty shall be for the remaining portion of the warranty period applicable to the original product.

This warranty extends solely to failures due to defects in materials or workmanship under normal use. It does not cover normal wear of the product.

If you need to return a product under this warranty, please contact your dealer or our distributor.

13. FCC COMPLIANCE STATEMENT

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.

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.

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.

The device does not contain any user-serviceable parts. Repairs should only be made by an Authorized repair center. Unauthorized repairs or modifications could result in permanent damage to the equipment, and will void your warranty and your authority to operate this device under Part 15 regulations.

The shielded interface cable which is provided must be used with the equipment in order to comply with the limits for a digital device pursuant to Subpart B of Part 15 of FCC Rules.

