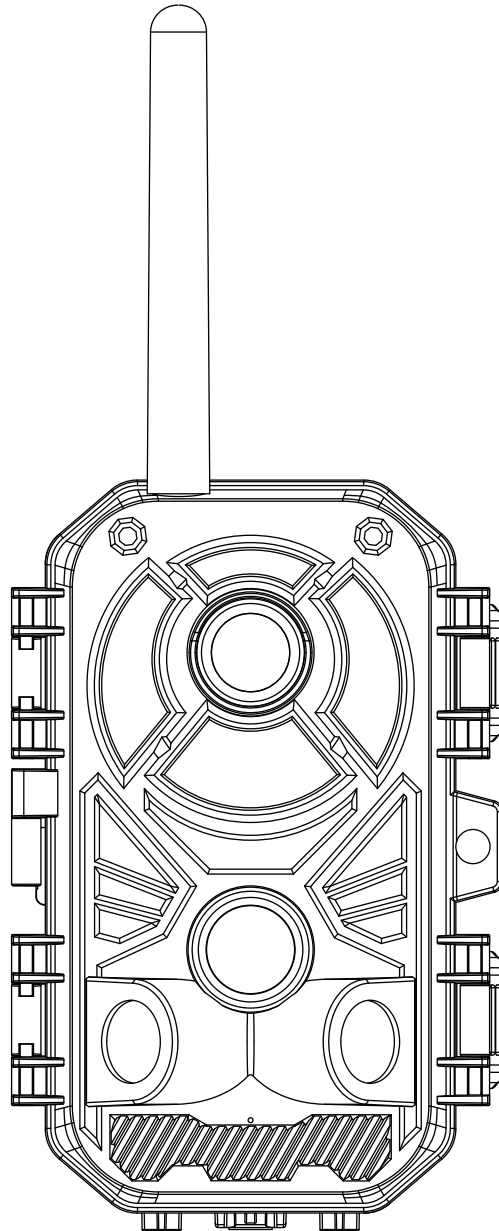


# Trail Camera



## D301W Wi-Fi Camera Instruction Manual

V1.1

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## **1. General Description**

Congratulations on your purchase of D301W Wi-Fi camera. D301W is a new generation of Wi-Fi camera. The camera has a built-in Wi-Fi and Bluetooth module, so that you can connect and operate the camera through a dedicated app ("TrailCam GO"). The Bluetooth module, operating in low power, is used for device discovery, and easy for preview, image transmission and settings.

The camera features the all-new innovative and ultra-clear imaging technology, encompasses smart night vision, blur reduction, and noise reduction technology to deliver high resolution image quality.

### **About App Wi-Fi Connection**

**Please refer to Section 6 for details.**

For better performance, we recommend that your phone is within 15 meters (49 feet) of your camera. Since there may be interference around, if the signal is not good, please move closer to the camera gradually.

## **Features:**

**Bluetooth connection for device discovery**

**Easy preview, playback, and settings**

**48MP invisible IR camera**

**4K H.264 video with audio**

**0.1s trigger speed**

**Support 1-5 burst photos**

**No glow black LEDs with 20m range**

**Rich camera scene settings, including moving object and so on**

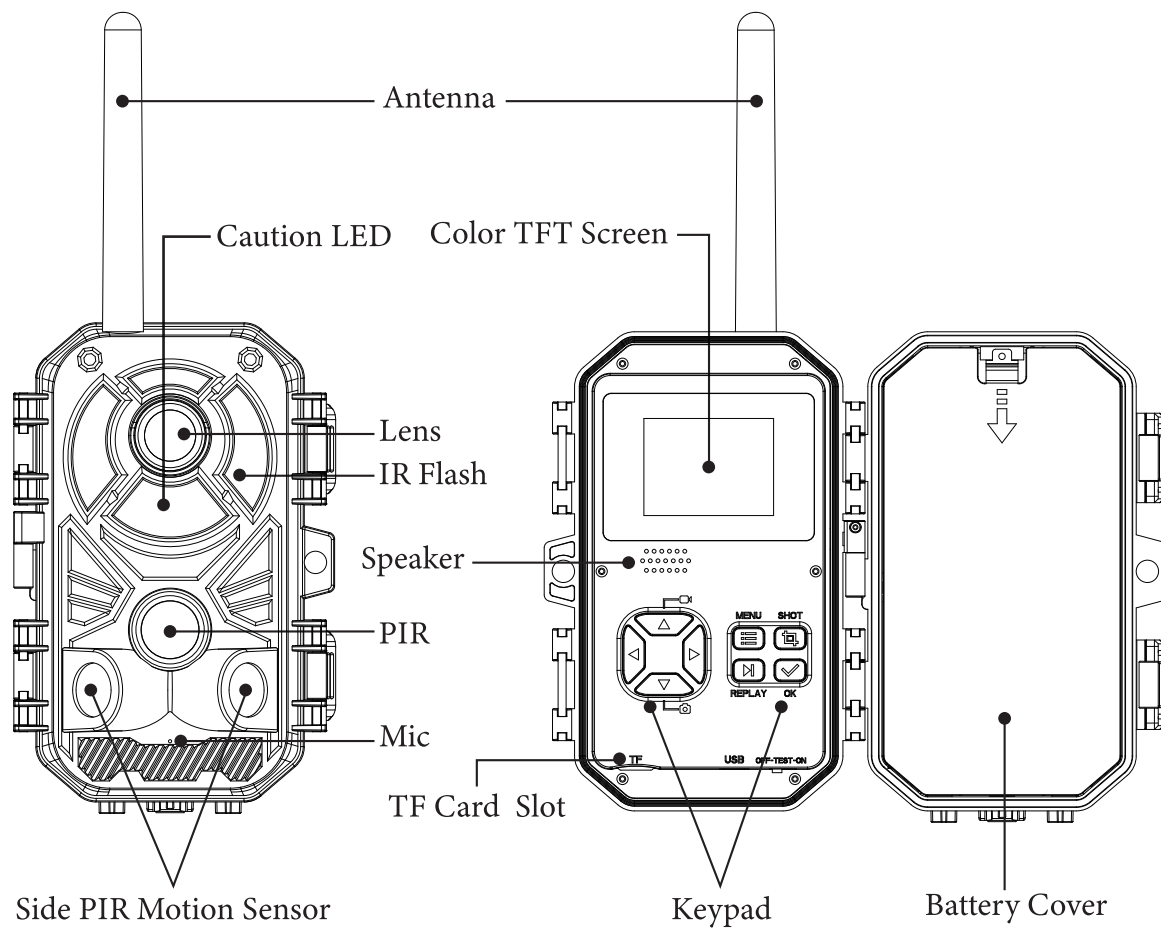
**Improved time lapse accuracy, in seconds**

**Camera rename**

**TF card overwrite**

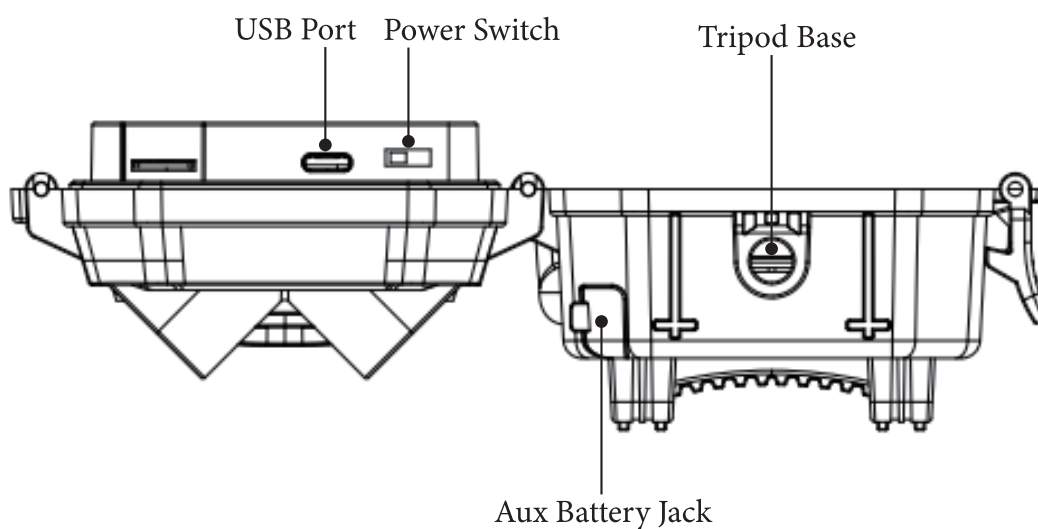
**Water resistant**

## 2. Camera Button Info. Diagram



**Fig 1: Front View**

**Fig 2: Operation Interface**




**Fig 3: Bottom View**

## Operation Panel :

**MENU:** To enter the menu, the power switch should be on **TEST**.

▲▼◀▶ : Navigation arrows. ("▲" is the shortcut to choose "Video", while "▼" for the "Photo" .)

**OK :** Save parameter settings.

 :To capture a photo or record a video manually.

(Click  again to stop the video.)

**Power Switch: OFF:** turn off the power; **TEST:** change camera settings; **ON:** enter the working mode.

## 3. Installing the Batteries

To supply power for the camera, 8 size AA batteries are needed. Confirm that the power switch is in the **OFF** position; load fully charged batteries into the pack according to the polarities signs shown in Fig.4. The following batteries with 1.5V output can be used:

1. High-density and high-performance alkaline batteries (Recommended)
2. Rechargeable alkaline batteries
3. Rechargeable NiMH batteries

## Note:

- Do not mix old and new batteries.
- Do not mix different type batteries.
- Take out batteries if you don't use your camera for a long time.

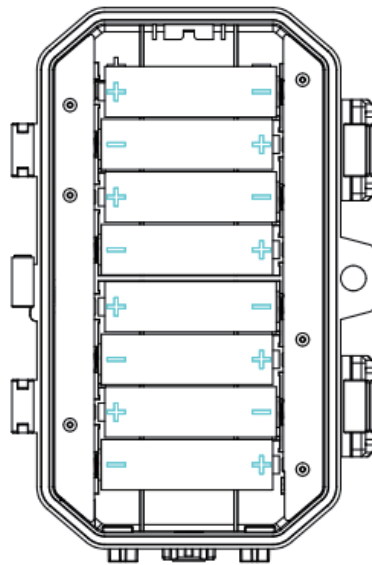


Fig 4

## 4. Inserting TF Card

Camera itself has no storage space to store the photos. You need to insert a TF card to let the camera work correctly. You can use any TF card (C10 or above type) size up to 128G. The camera will not work without a TF card inside.

## Note:

- Every photo taken by this camera will be saved to the TF card. You will always have access to the high resolution photos on the TF card.
- Format your TF card regularly. This can be done by setting (Ref. 5.23. **Memory Card Format**). When your camera takes a image, the camera will scan all the images on the TF card to determine what images need to be uploaded. The more images on your TF card, the more data the camera has to process on each connection that consume more battery power.

## 5. Customizing Camera Settings

D301W Wi-Fi camera has rich camera scene settings, with the help of camera scene, you can easily choose different combinations of shutter speed and exposure time according to particular cases.

### 5.1. Mode

Press the **MENU** button. You will see the screen shown in Fig.5.

Select Mode option and press **OK** then there are three options for you to choose shown in Fig.6.



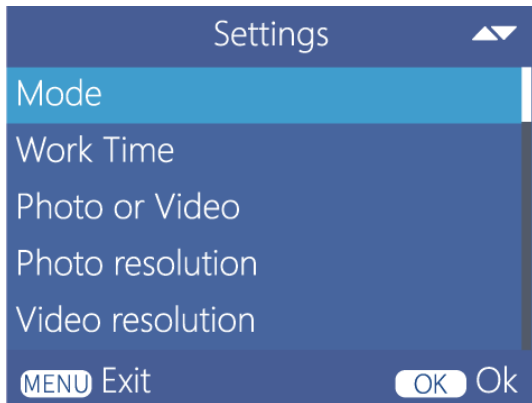


Fig 5

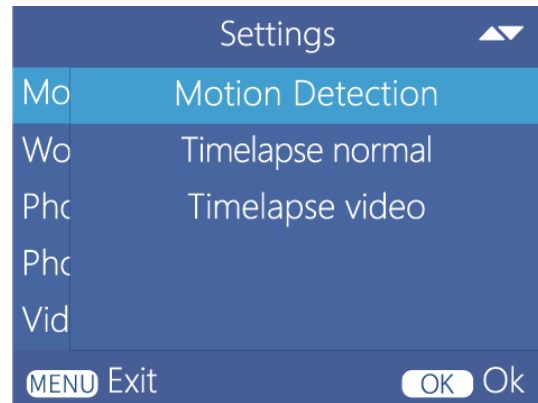


Fig 6

### 5.1.1. Motion Detection

When choosing **Motion Detection**, the PIR is active. Any motion(animals or humans) that is detected by PIR will trigger camera to capture a photo or video according to the preset PIR sensitivity and PIR Interval.

After your camera enters the **ON** mode in **Motion detection** mode, the PIR is active and camera will start working (the working state will be based on your setting: photo or video or photos + video, photo and video resolution, number of photos, recording time, detection interval time etc.). The setting of interval time allows your camera to reduce or eliminate false triggers. After your camera is successfully triggered and working, it will enter the cooling countdown, until next triggered, and start working again. Reference **5.9.Detection Delay**.

### 5.1.2. Timelapse normal

When choosing **Timelapse normal**, camera takes photos or videos even when it is not triggered by a nearby animal, useful for constant monitoring of an area that might be far away from the camera. The interval time between each photo/video is set in hours, minutes, seconds.

After your camera enters the **ON** mode in **Timelapse normal** mode, the camera will start the countdown to work according to your preset time. The camera will capture photos based on your setting: photo or video or photos + video, photo and video resolution, number of photos, recording time, etc.

### 5.1.3. Timelapse video

In **Timelapse video** mode, the camera will combine all the photos into one slide.

After your camera enters the **ON** mode in **Timelapse video** mode, the camera will start the countdown to work according to your preset time. The camera will capture photos based on the setting of interval time, and you can get some photos as it is working continuously. Then you can view all these photos of a certain time by one slide.

## 5.2. Work Time

The camera can just work at a preset time and preset days. In the rest of the time the camera is under standby mode.

**On:** It means enable the function of working time.

**Off:** It means the camera will work all the time.

## 5.3. Photo or Video

There are three options for you to choose. You may select **photo** or **video** or **photos + video** and press **OK** to confirm.

## 5.4. Photo resolution

There are ten options for you to choose. Select **Photo resolution**. Higher resolution produces better quality photos, but creates larger files that take up more of the TF card space and fills it up faster. It provides 48MP, 42MP, 36MP, 32MP, 24MP, 20MP, 16MP, 8MP, 4MP, 2MP. Default set is 8MP.

## 5.5. Video resolution

There are four options for you to choose. Select **Video resolution** (in pixels per frame). Higher resolution produces better quality videos, but creates larger files that will take up more TF card space and fills it up faster. It provides 4K(3840x2160, 30fps), 2.7K(2560x1440, 30fps), 1080P(1920x1080, 30fps) and 720P (1280x720, 30fps) videos. Default set is 1080P.

## 5.6. Photo Burst

There are five options for you to choose shown in Fig.8. Select desired number for photos. To take continuous photos after one trigger if the setting is 2P or above.

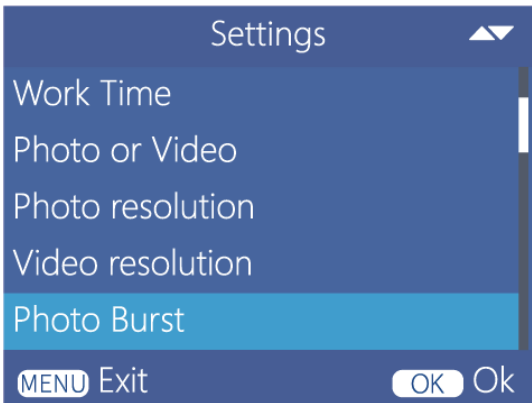


Fig 7

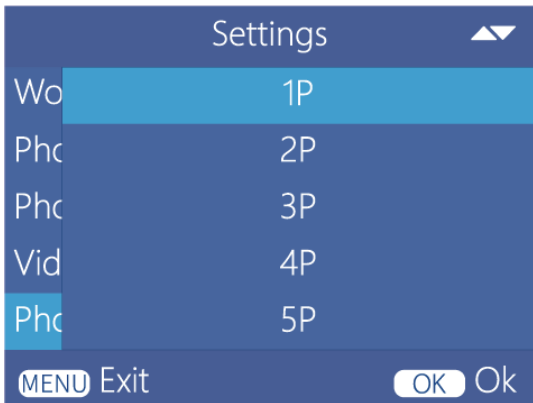


Fig 8

## 5.7. Video Length

Video length is the length per captured video clip. The video length is from 5 Sec. to 10 Min. The default setting is 10 Sec. For saving power, it is better to set the video length within 20 Sec.

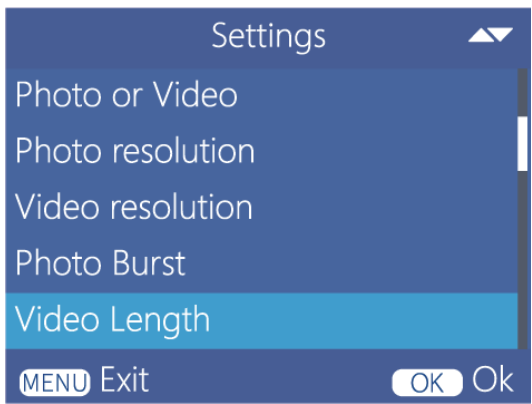


Fig 9

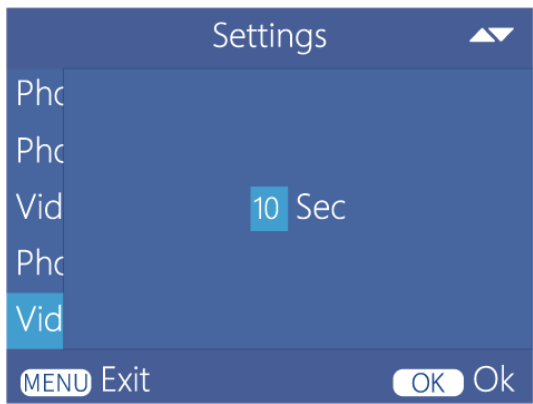


Fig 10

## 5.8. Audio Recording

There are two options for you to choose:

**On:** It means enable the function of audio recording. The camera can record the sound while taking video.

**Off:** It means the camera works under the function of audio recording not enable.

## 5.9. Detection Delay

In Motion Detection option of Mode, when choosing the length of time, e.g. 30 Sec., any motion (animals or humans) that is detected by PIR will trigger camera to capture a photo or video, the camera will not take images during the selected interval 30 Sec. This prevents the TF card from being filled with too many redundant images. Default set is 30 Sec.

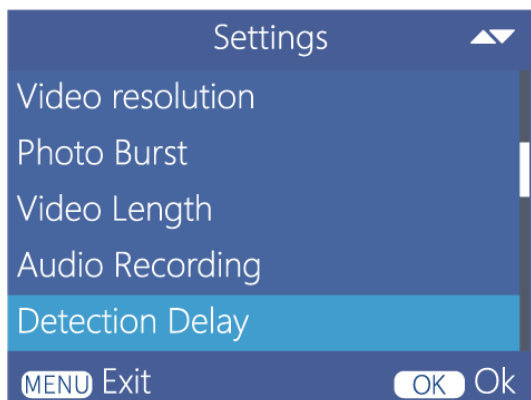


Fig 11

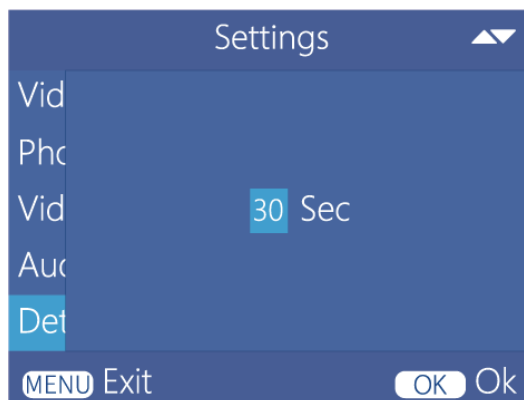


Fig 12

## 5.10. PIR Sensitivity

There are three options for you to choose shown in Fig.14.

The camera monitors temperature of ambient conditions. On

cold days it is advised to choose **Low** or **Middle**, on hot days it is better to choose **High** to be more sensitive to slight variations in temperature.

The mobile trail camera use a passive infrared (PIR) sensor to detect when an object passes in front of it. Follow the following tips help you to reduce or eliminate false triggers.

When the PIR is triggered the camera takes a image. At times, the PIR will trigger and there won't be anything in the image. These are called "False Triggers" and are the result of placing the camera in an environment where tree branches, grass, leaves, etc., are blowing in the wind and creating motion. Sunlight can also cause false triggers as the PIR sensor is reading the sun beam as hotter than the surrounding environment. Setting a camera up over water is also a potential cause for this issue.

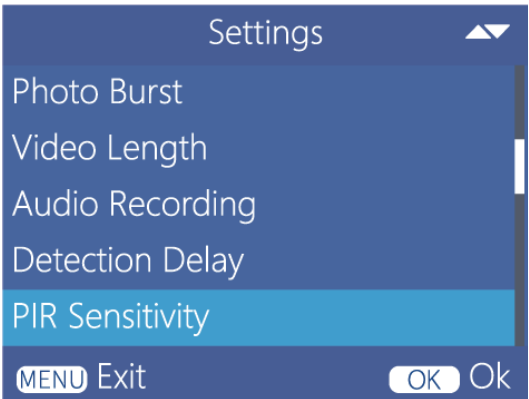


Fig 13

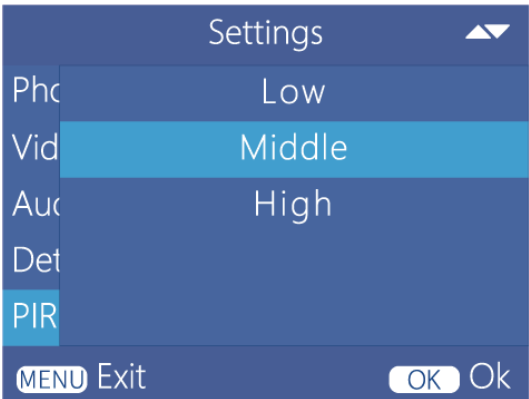


Fig 14

## 5.11. Side Motion Sensor

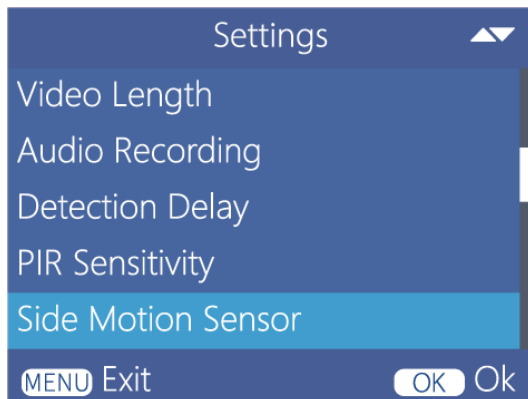


Fig 15

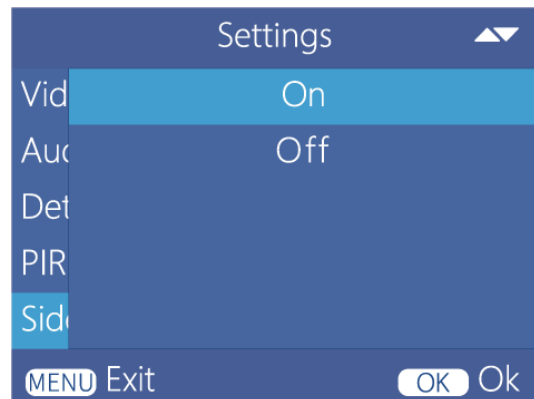


Fig 16

There are two options for you to choose shown in Fig. 16.

**On:** It means enable the function of **Side Motion**.

Choosing **On**, the side motion sensors will be activated. When any of the two side motion sensors detects a fast moving animals or humans about 120° from the lens (5-20m), the camera be pre-activated. If the moving motion enters the detection area of the center motion sensor about 90° from the lens(5-20m) , the camera will start taking images according to the settings, otherwise the camera will re-enter standby mode again.

**Off:** It means the camera will work under the side motion sensor not enable.

## 5.12. Motion filter

There are two options for you to choose shown in Fig. 18.

**On:** It means enable the function of filtering false shots after PIR is triggered. You need to set up a special area by your mobile phone APP to achieve the motion filtering function. Refer to **6.11. Motion Detection Filter setting** for details.

**Off:** It means the camera works under the function of motion filtering not enable.

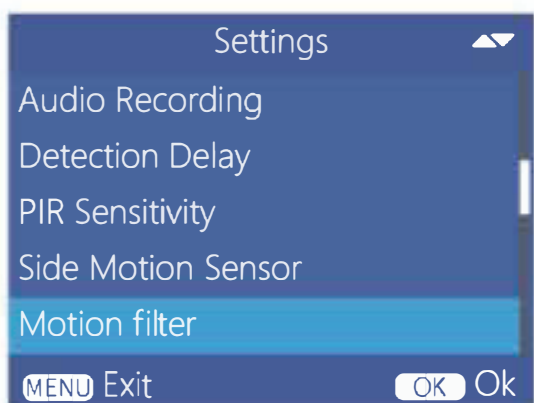


Fig 17

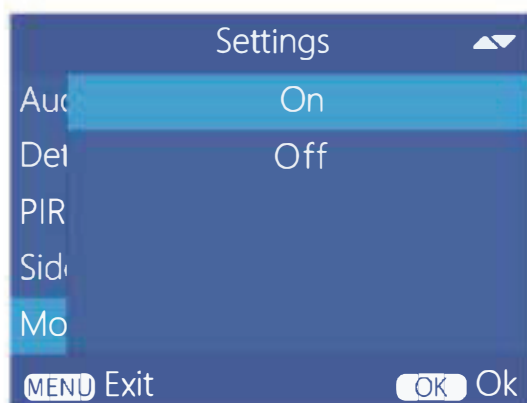


Fig 18

## 5.13. Motion Test

This function helps you aim and test the camera at target area.

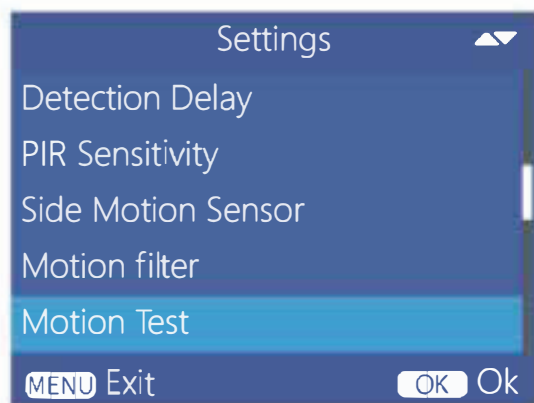


Fig 19

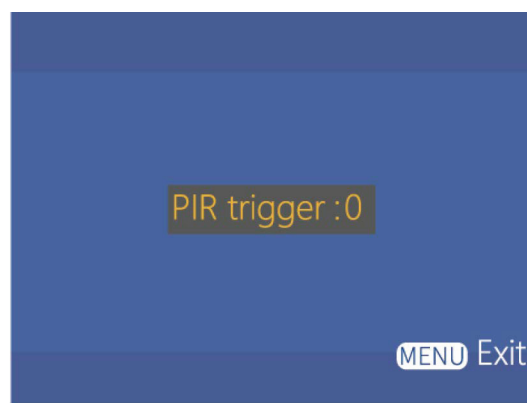


Fig 20



## 5.14. Fill Light Distance

There are three options for you to choose shown in Fig.22.

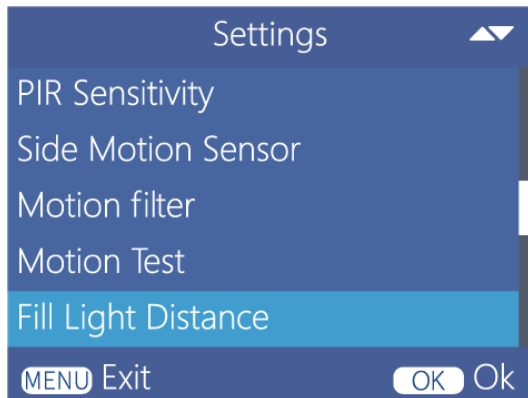


Fig 21

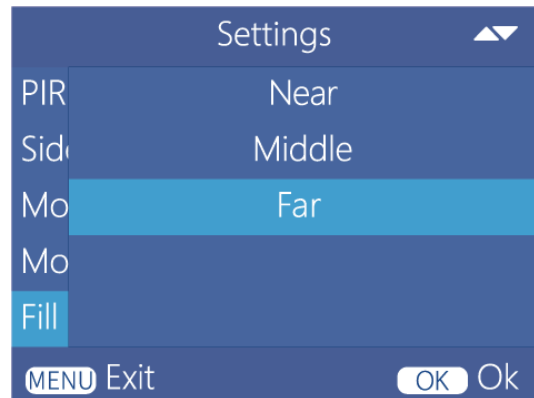


Fig 22

In order to get the optimal photos or videos quality, the camera should be placed to a suitable distance of target area for scouting game.

Near: < 5m

Middle: < 10m

Far: < 20m

## 5.15. Camera Name

In order to distinguish one camera from others, you can rename your camera. The character is from "0" to "9" and "A" to "Z" . The max. number of character is 8. Use "▲""▼""◀""▶" to select the character, and press **OK** to save it. The new camera name will be printed on time stamp.

## 5.16. Wi-FiLED

There are two options for you to choose:

**On:** It means enable the function of Wi-Fi connecting. Your mobile phone can connect the camera.

**Off:** It means the camera works under the function of Wi-Fi not enable. Your mobile phone can not connect the camera .

## 5.17. Date & Time

Set **Date & Time:** Mon, Day, Year

Hour, Min., Sec., use "▲""▼" "◀""▶" to select the character, and press **OK** to save it.

## 5.18. Date Format

There are three options for you to choose:

**D/M/Y**

**M/D/Y**

**Y/M/D**

## 5.19. Time Format

There are two options for you to choose:

**24H** and **12H**

## 5.20. Date Stamp

There are two options for you to choose:

**On:** It means enable the function of date printing. When

camera takes photos or videos, date and time will be displayed at the bottom.

**Off:** It means when camera takes photos or videos, date and time will not be displayed.

## 5.21. Loop Record

There are two options for you to choose shown in Fig.24.

**On:** It means the function of save new photos or videos over the old images on your TF card if it becomes full. Each time a new photo or video is taken the oldest image on the card will be overwritten.

**Off:** It means the camera may not continue to take any photos or videos once the TF card is full.

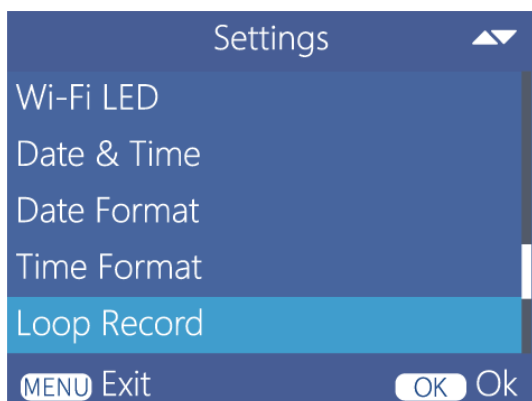


Fig 23

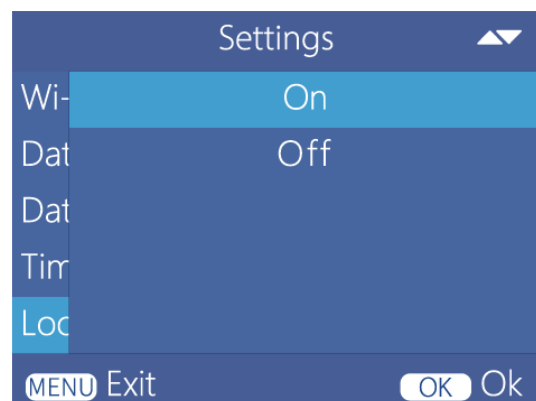


Fig 24

## 5.22. Beep Sound

There are two options for you to choose:

**On:** Make a beep sound when pressing the keyboard.

**Off:** The keyboard does not beep when pressed.

## 5.23. Memory Card Format

Deletes (erases) all files stored on a TF card to prepare it for reuse. **Caution!** Firstly, make sure you have downloaded and backed up all the images you want to preserve!

It's recommended to format the TF card when first used in this camera, especially when the TF card has been used in other devices.

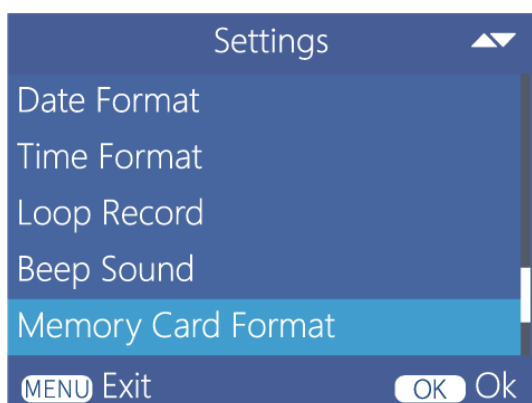


Fig 25

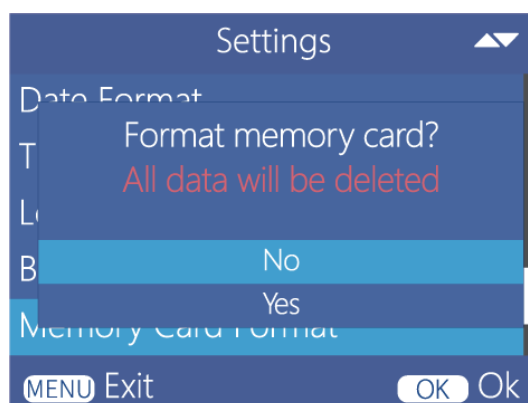


Fig 26

## 5.24. Language

There are eleven languages for you to choose:

English, Deutsch, Francais, Espanol, Nederlands, Italiano, Polski, Chinese, Korean, Japanese, Russian.

## 5.25. Password Protection

Use "▲""▼""▶" to set the password, and press **OK** to save it. The default password is 0000. Make sure you write down your password or save it to your mobile phone so you can access your camera if you ever forget your password.

This is a very important security feature.

In case you forget your password, please turn off your camera, press "▲" and **OK** key and move the key to **ON** position at the same time, then you can reset the password.

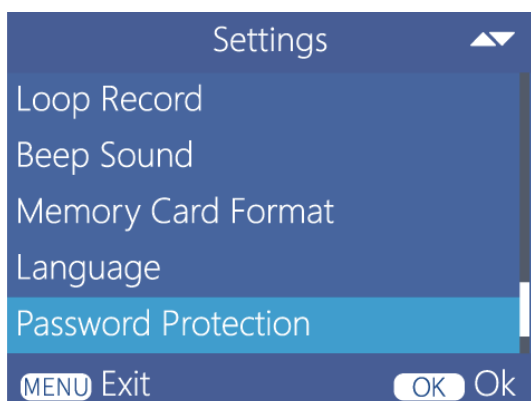


Fig 27

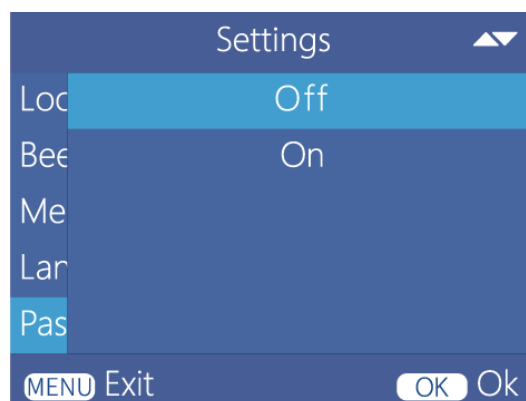


Fig 28

## 5.26. Factory Reset

The Default Set resets the camera to factory settings.

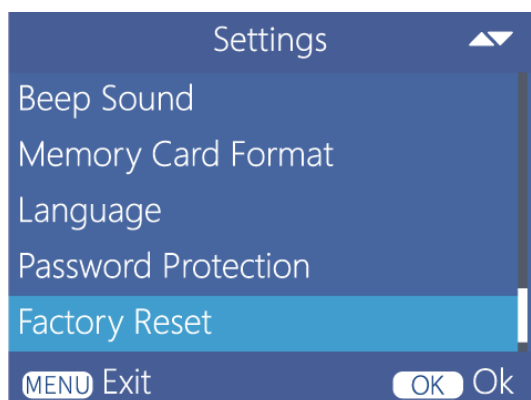


Fig 29

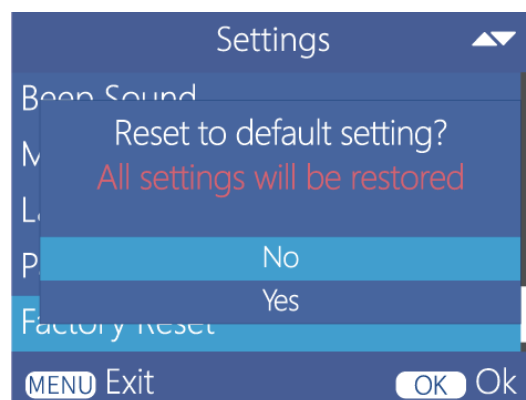


Fig 30

## 5.27. Version Info.

It shows the firmware version of the camera, for manufacturer's use only.

## 6. Wi-Fi CONNECTION

### 6.1. Download TrailCam GO App

Before using the Wi-Fi functionality, please download the "TrailCam GO" app.



Android QR Code



TrailCam Go



iOS QR Code

#### **Note:**

The actual diagram on different versions of app, iOS and Android may differ.

During the use of the TrailCam GO app (Referred to as app), please grant the app access to Wi-Fi, Bluetooth, storage, location and camera of your device, and enable the Local Network which are necessary to take photos and videos.

**The camera is connected to the phone APP through the hotspot on the camera, and does not support the Wi-Fi network connection at home or other public places.**

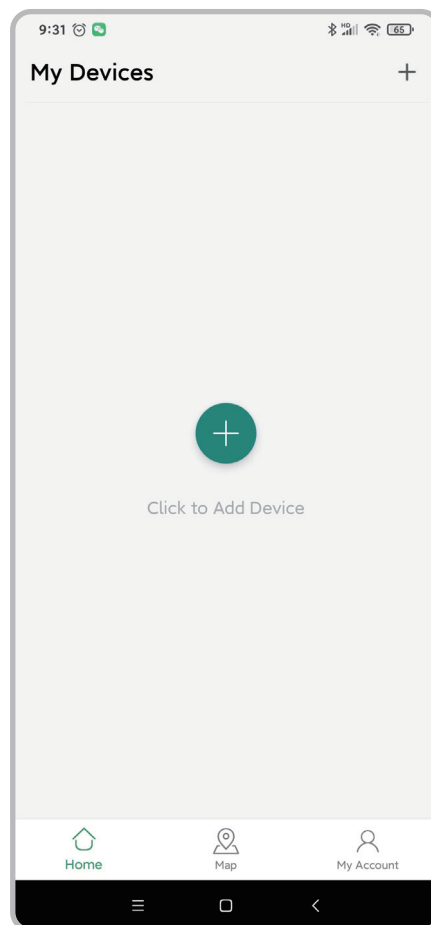
## 6.2. Enable Wi-Fi and Bluetooth

Enable Wi-Fi and Bluetooth on your mobile phone before opening the app. This step is optional, however it can speed up the connection between app and camera.

## 6.3. Go to Add Camera

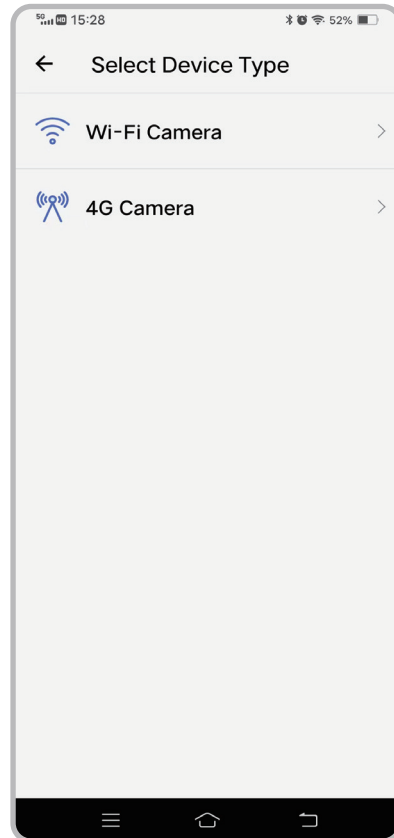
Ensure that your camera is in **ON** mode and in close proximity to you. To establish a stable connection, move within 49ft of the camera with no obstacles obstructing the signal, such as walls or glass doors.

Open the app, tap **Click to Add Device**.



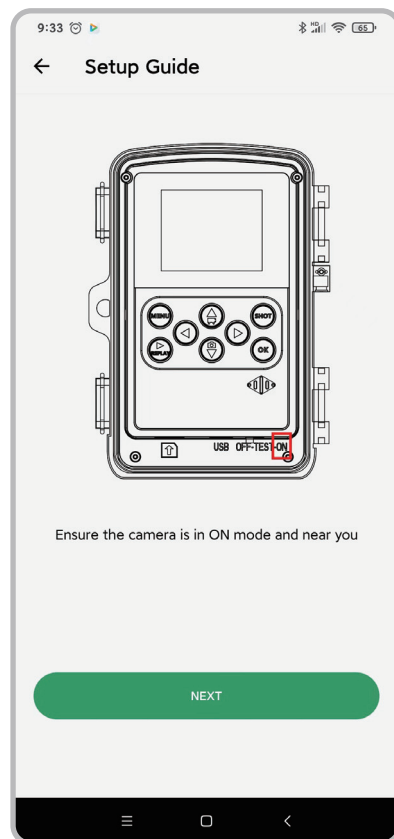
## 6.4. Add Your Camera

Open the app, tap **Wi-Fi Camera**.



## 6.5. Ready to add

Ensure the camera is in **ON** mode and near you, press **NEXT** to go on.





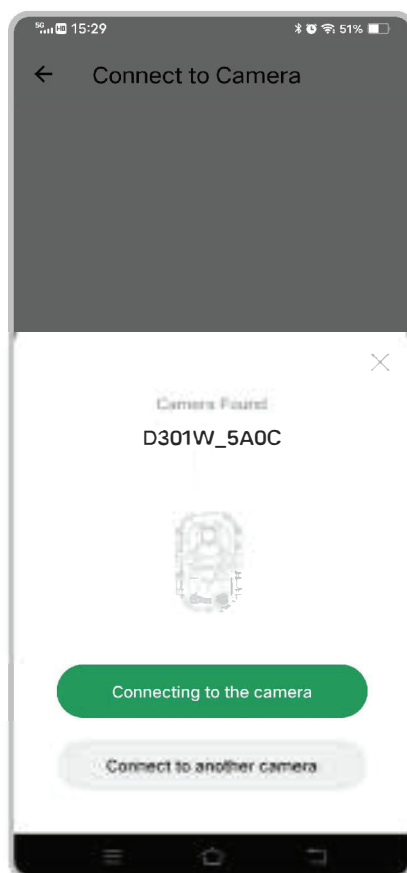
## 6.6. Configuration connection

The app automatically searches for all Wi-Fi cameras nearby, please make sure your camera is within the Wi-Fi range. This process may take up to 15 seconds. If the device is not displayed in the list or you have multiple trail cameras, please click "Connect to another camera" and the app will automatically refresh and search for nearby devices.

Connect your Camera "D301W\_XXXX"

(XXXX is a 4-character Easy to distinguish random distribution of products)

**Tap Connecting to the camera.**



## 6.7. Build connection

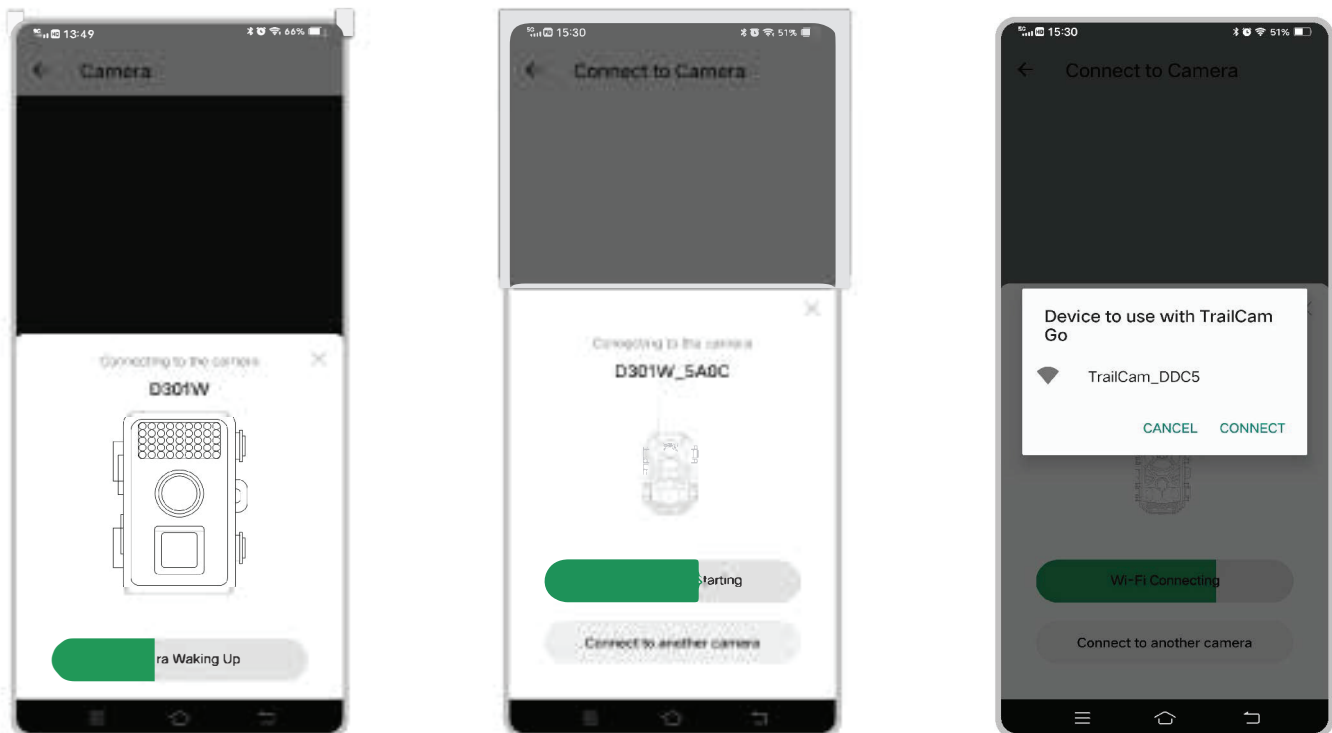
The app starts connecting to your camera. It might take up to 15 seconds to build the Bluetooth and Wi-Fi connection between the app and camera. There are 4 steps (Illustration omitted):

Step 1 - Connecting through Bluetooth...

Step 2 - Activating the camera...

Step 3 - Searching Wi-Fi... The camera display will turn of during Wi-Fi connecting.

Step 4 - Connecting through Wi-Fi...



A system pop-up message will show.

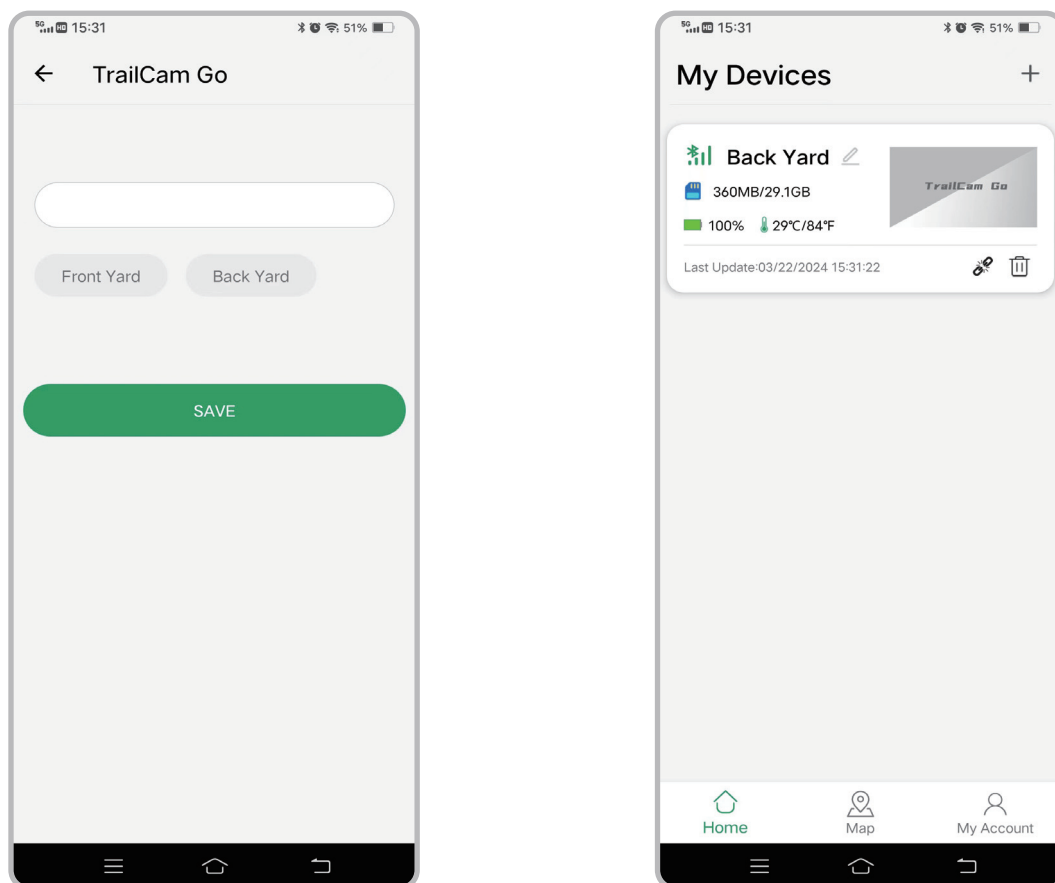
Please tap 'Join' to allow Wi-Fi connection. The string "Trail-Cam\_DDC5" is the name of Wi-Fi hotspot on the camera to allow Wi-Fi connection. Among cameras, the prefix TrailCam is fixed, DDC5 is the internal camera identifier which may vary from different cameras.

## Note:

On Android devices, there might be different system pop-up messages that ask for allowing app connection to camera since different mobile phone manufacturers may modify and customize this system message.

### 6.8. Please name your camera

Optional default "Front Yard" and "Back Yard" or Custom naming.

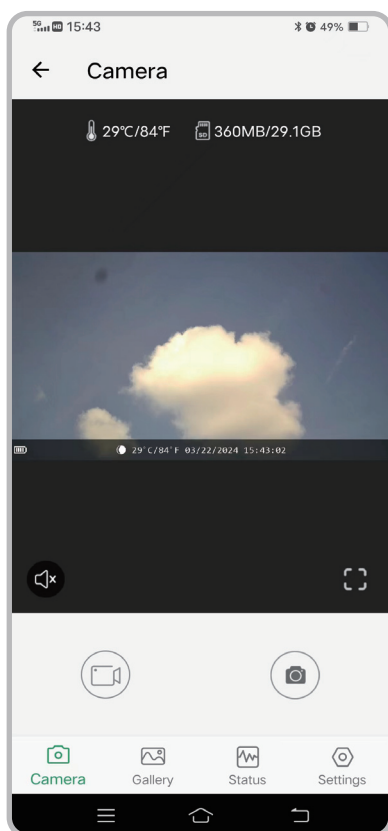


Complete add.

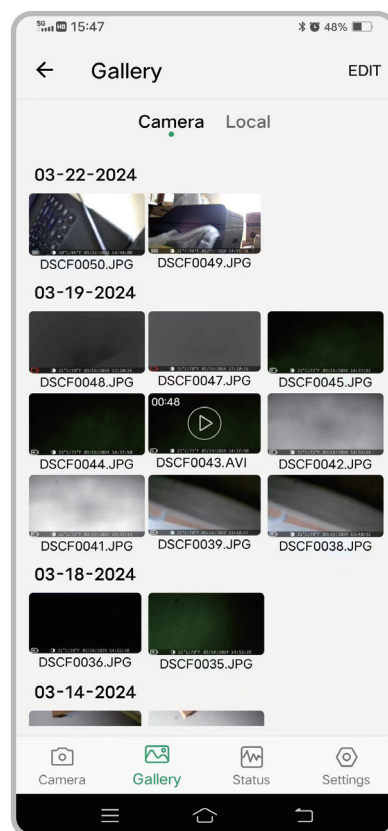
## 6.9. App Navigation

The app supplies 4 main features: Camera, Gallery, Status and Settings.

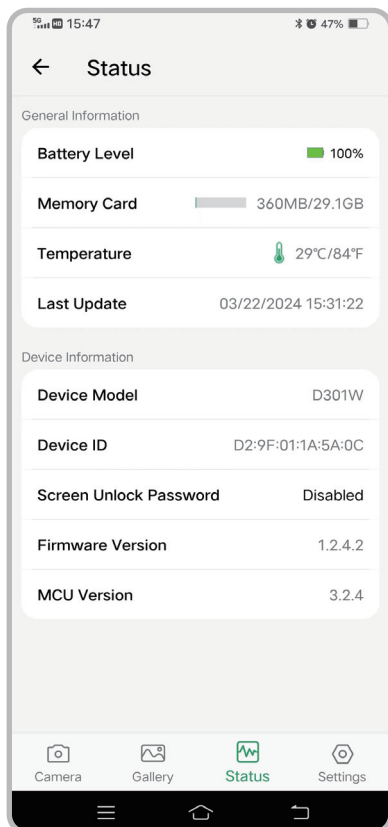
| Features        | Details  | Refer to      |
|-----------------|--|---------------|
| <b>Camera</b>   | Preview, manual taking photos or videos.<br>Note: When your Wi-Fi camera is connected, motion detection will be disabled. When you disconnect your Wi-Fi camera or close the app, it will be enabled again after the set PIR interval of Detection Delay is end. e.g. you set the PIR interval 15 sec., and you disconnect your Wi-Fi camera or close the app, your Wi-Fi camera will work again after 15 sec. | *Fig.Camera   |
| <b>Gallery</b>  | Review or download the photos or videos the camera has taken.  | *Fig.Gallery  |
| <b>Status</b>   | Camera status, including battery level, TF card capacity and used size, internal temperature of the camera, number of photos and videos stored on the TF card, camera model, firmware version number, etc.   | *Fig.Status   |
| <b>Settings</b> | Display or program camera settings, such as mode, photo quality, etc.  | *Fig.Settings |



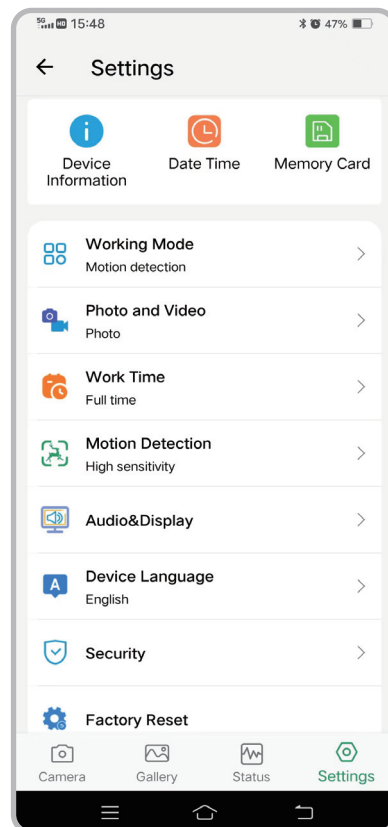
**\*Fig.Camera**



**\*Fig.Gallery**

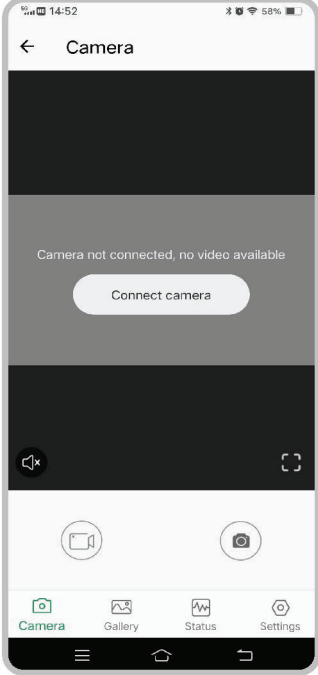


**\*Fig.Status**



**\*Fig.Settings**

## 6.10. Important Notes on App Wi-Fi Connection

| No. | Notes  |
|-----|--|
| 1   | <p>When the camera's Wi-Fi is connected, the camera will stop SURVEILLANCE (motion detecting or time lapse). Disconnect Wi-Fi to enable the camera to go back to SURVEILLANCE mode.</p> <p><b>TIP: How to re-enable the camera start motion detection?</b></p> <p>Tap Connecting...the camera-connected, the camera will stop SURVEILLANCE.</p>  |
| 2   | <p>On mobile devices, when the application is closed or running in the background, the device automatically disconnects and enters the working state.</p>  |
| 3   | <p>When the app is connected to the camera, the blue light will flash once.</p>  |

## 6.11. Motion Detection Filter setting

You can set up a special motion detection area for your camera. Only animals or humans enter into this area, can camera capture photos or videos according to the preset PIR sensitivity and PIR Interval. The setting can be filtered out false triggers caused by tree branches and leaves or sunlight, while not affecting the normal capture of animals or humans.

First, the setting in **Motion filter** of **MENU** should be **ON** status. Refer to **5.12. Motion filter**.

Second, there are 6 steps as the following:

Step 1 - Press "TrailCam GO" app

Step 2 - Connect your Wi-Fi camera

Step 3 - Press "**Settings**"

Step 4 - Select "**Motion Detection**"

Step 5 - Search for "**Motion Detection Filter**" and open it

Step 6 - Press "**Detection Area**" and edit it

a. Enter "**Detection Area**"

b. Press "**ADD NEW AREA**" to create a default area. Then you can move it to different position or adjust its shape and size.

c. You can enter full screen area and edit it

d. Press "**Save**" in full screen interface or press "**SAVE AREA**" in last interface.

e. If you change the position of your Wi-Fi camera to a new place, you can press "**CLEAR AREA**" and re-adjust its shape and size.

