

# Wildlife camera



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## RIGHT OF COMPLAINT

By law the product must be returned to the place of purchase along with the original receipt in the event of a complaint. The user is liable for any damage to the product that is caused by not using the product for its intended purpose or by not following this user manual correctly. The right of complaint will not apply in these instances.



### INFORMATION ABOUT HAZARDOUS WASTE

Used products should be handled separately from household waste. They should be taken for recycling in accordance with local rules for waste management.



Thank you for choosing to purchase a product from Rusta!



Read through the entire manual before installation and use!

## Wildlife camera

Read the user manual carefully to make sure that the product is assembled, used and maintained correctly, as described in the instructions in this user manual. Keep the user manual for future reference.



### **WARNING!**

**If these instructions are not followed, an accident may lead to serious personal injury or property damage.**

## HAZARD, SAFETY AND WARNING NOTICES



### **HAZARDS FOR CHILDREN AND PERSONS WITH LIMITED ABILITY TO OPERATE THIS CAMERA**

- Never let children or persons with limited abilities operate this camera or accessory. The camera and accessory can only be operated by persons physically and mentally able to operate it safely.



### **POWER SUPPLY AND ELECTRICAL HAZARD**

- If the camera is damaged or has foreign matter intrusion, please shut down immediately and remove the batteries, otherwise there is fire or explosion danger.
- Using an external power source may cause electric shock or fire. Please keep the camera and power dry and ventilated, and forbid any object to cover.
- The power supply can't be used during thunder or lightning. Otherwise it may cause electric shock or other accidents.



### **USE SAFETY WARNING**

- Do not drop, impact, squeeze or puncture the camera.

- Never use corrosive chemicals to clean the camera.
- Keep away from high temperatures or combustibles. Do not put batteries into the fire, which may cause fire or explosion.
- Never disassemble or repair the camera. If necessary, please contact a professional or contact a dealer.



### **LCD SCREEN**

- Do not squeeze or knock at the LCD screen
- If LCD screen broken, and accidentally touch the liquid, rinse immediately with lots of clean water .In case of contact with eyes , rinse the eyes with lots of clean water immediately and go to see doctor immediately. In case of swallow the liquid, rinse the mouth with clean waters, drink plenty of water and go to see doctor immediately.



### **USE, PROTECTION AND STORAGE**

- Must place the camera on sturdy surfaces in case of any damage or injury.
- Never use the camera upside down, or immerse the camera in water.
- All locks and plugs must be fastened before working.
- If you do not use the camera, must take out the batteries and place it in a dry place
- Collision, fall and other man-made damage is out of the warranty , need to pay for repair.



### **WASTE DISPOSAL**

- Cameras and accessories should not be disposed according to household waste, and should not be discarded at will.
- Please sort according to local laws. Please consult relevant local departments for specific information.

### **ABOUT THIS MANUAL**

- This manual serves as a general guide for the use of cameras. The pictures are for reference only.

## 1. ABOUT CAMERA

Thank you for purchasing this HD camera with night vision. Please contact us timely if you have any issues during the use of the camera.

### 1.1 MAIN FEATURES

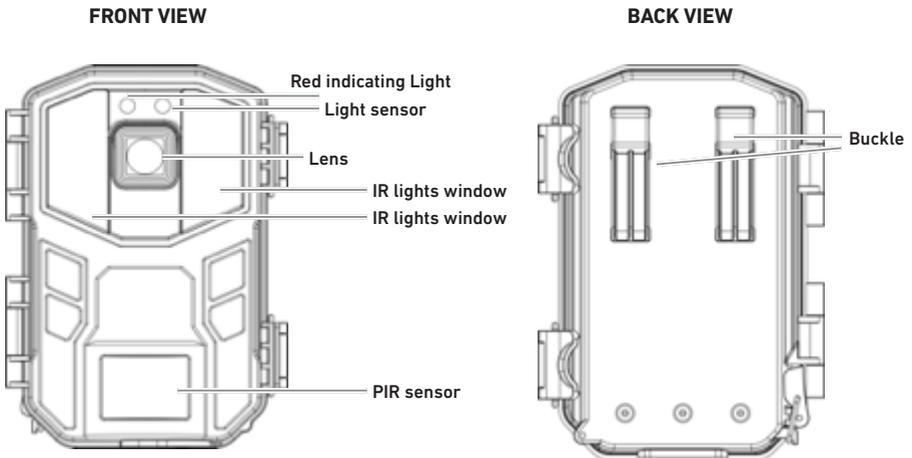
The camera works automatically to take pictures of moving people or animals. Widely used in animal shooting, hunting, family security and other applications. It has the following features:

- 1080P/30fps HD
- 0.6S trigger time
- Strong PIR sensitive distance
- Night vision function
- Automatic work in 24hrs
- Covert appearance
- 16.0MP photo resolution
- Long standby time
- Time lapse
- Luminous keys
- IP66

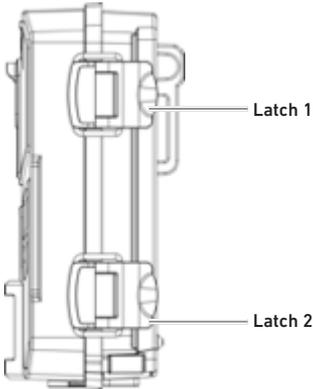
### 1.2 COMPUTER SYSTEM REQUIREMENT

The camera can connect to computer to copy files, playback and used as U disk .If the camera is connected to computer, the following specifications are required at least: The Pentium2.0 GHZ or upper processor/Windows XP or upper system/2GB RAM/80GB or more ROM/Standard USB2.0 port or upper port/1GB or more display card/1024x768 or higher screen definition.

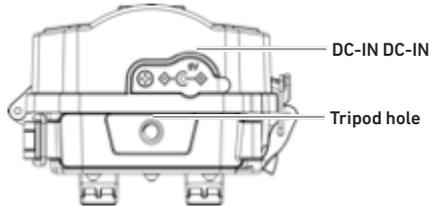
### 1.3 PICTURE PRESENTATIONS



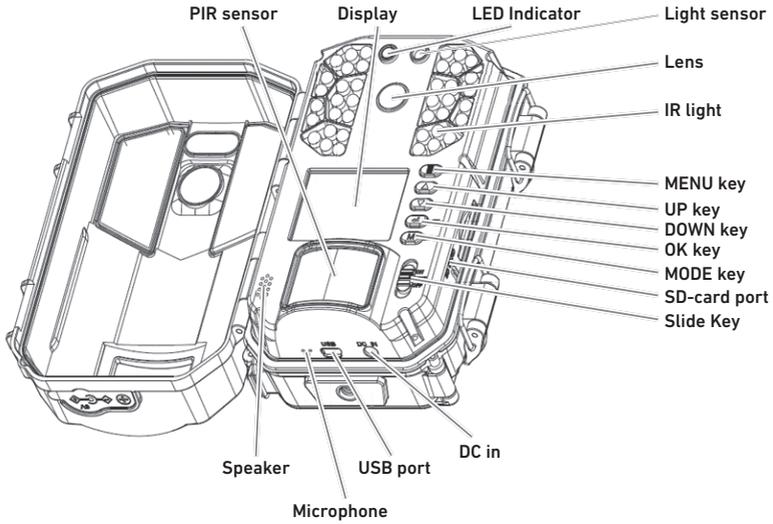
**RIGHT VIEW**



**BACK VIEW**



**INSIDE VIEW**

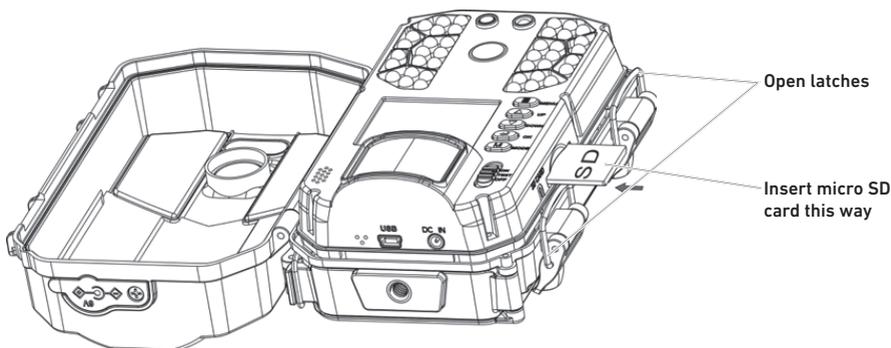


## 1.4 KEY FUNCTION DESCRIPTION

Key icon	Key name	Functions
	[Slide] key	OFF: Power off TEST: Users can set, preview, test shot and play-back photo and video. ON: Monitor shooting mode. In this mode, the camera enters the automatic monitoring and shooting state, and automatically takes photos or videos.
	[MENU] key	Press this key, Menu interface will be shown or back to previous step
	[UP] key	Move up/page up, photo or video forward
	[DOWN] key	Move down/page down, photo or video backward
	[OK] key	Confirm and execute
	[MODE] key	Switch between: Photo mode/Video mode/ Playback mode via pressing this key

### 2.1 INSTALLATION OF THE SD CARD

- This camera must use with a SD card, please format the SD card before first use of it. See operation method 4.19.
- Please install SD card according to below steps:  
As shown in the picture, open the latches and front housing; insert the SD card with metal contactors facedown. Push the SD card to slot until a "click" is sounded which means SD card installation is finished.



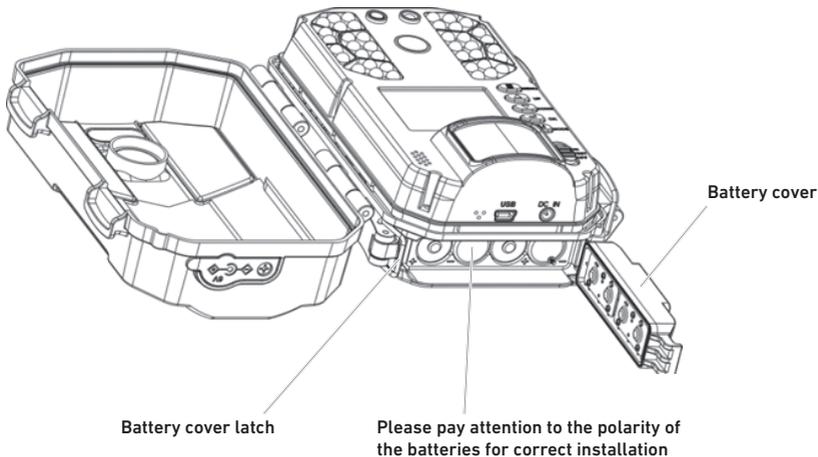
**NOTICE: Do not take out the SD card when the camera is working, otherwise the SD card might damage or lose data.**

**Please use qualified SD card and the transfer speed should be CLASS 4(included) or above. Do not use poor quality SD card , otherwise the camera might not recognize it or even can't be powered on.**

## 2.2 INSTALLATION OF BATTERY

Use 4 or 8 pcs AA batteries to power on the camera, the following is installation method:

- As shown in the picture, open the latches of battery cover, then open battery cover.
- Install batteries according to the polarity sign on the latch. If only use 4 pcs batteries, please install them in the left two holes.
- Keep the clean of battery cover, close it and then close the latches.
- Push the [Slide] key to "TEST" to check, if the screen is power on means the batteries are installed correctly.



**NOTICE: Please install batteries according to instruction, do not mix use of new and old batteries. With only 4pcs AA batteries, the battery life will be shorter.**

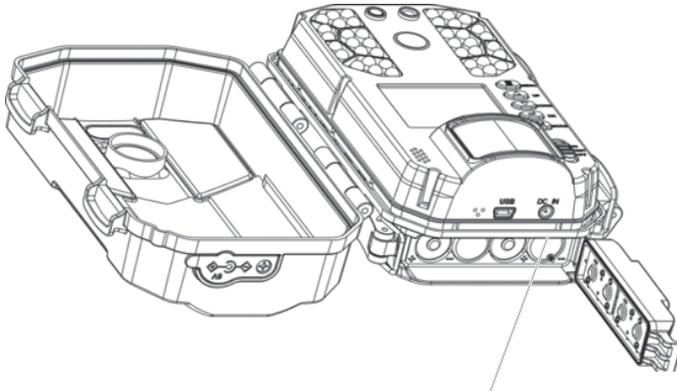
**Incorrect batteries installation can't power on the camera and may cause damage or accident.**

**After installation, please close the latches firmly in case of dust or liquid infiltration.**

## 2.3 USING AN ADAPTOR (ADAPTER NOT INCLUDED)

The camera also can be powered by adaptor as external power supply, see steps as below:

- Install AA batteries, set all parameters, push the [Slide] key to "ON" mode, close the housing of camera.
- Take down the waterproof rubber plug of DC IN port, insert the DC plug into the DC IN port tightly.
- Insert the adaptor plug into the socket. After being detected, the camera will switch to use the external power supply automatically.



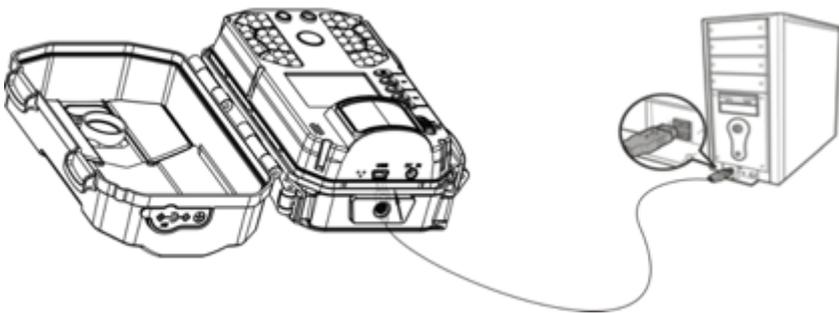
Insert the DC-IN cable  
to this port

**NOTICE: Please use a standard adaptor that is marked output DC6V/2.0A.  
ADAPTER NOT INCLUDED!**

#### 2.4 CONNECT TO PC

The camera can be connected to PC; users can transfer files, check photos and videos.

- Push the [Slide] key to "TEST" mode.
- As shown on below picture, use USB cable to connect camera and PC.
- After connection users will see "USB" on camera screen and "New disk driver" on PC display. Then it can be operated as a normal U disk on PC.



**NOTICE: When connecting to the computer, [Slide] key should be set to the "TEST" position. Ensure all cables are reliably connected.**

**If the computer configuration does not meet the requirements, it may not work properly when connecting the camera.**

## 2.5 INSTALL THE CAMERA

In order to achieve good image effect and make sure the camera can work safely, please install the camera on sturdy surfaces. Strap or holders are available to install it.

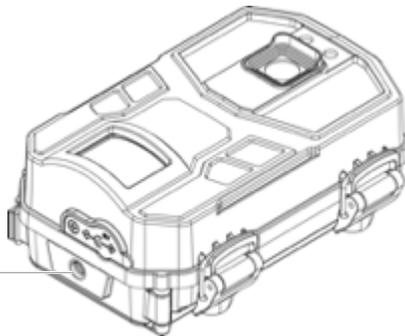
- Use strap to install

Pass through the buckles behind the camera with a strap, then install it on a tree or other sturdy place, fasten the strap. Please see below pictures.



- Use holder to install

Install the mounting bracket reliably on the fixed object (e.g. wall or tree), screw the supporting screw into the screw hole at the bottom of the camera, and tighten it. Adjust the camera angle and tighten all the screws. As following picture shows:



Tighten the holder into screw hole

**NOTICE: If installed close to the ground, make sure the bottom of the camera is more than 20CM from the ground.**

### 3. USE THE CAMERA

This chapter will tell you how to use this camera to filming.

#### 3.1 POWER ON, TEST AND POWER OFF THE CAMERA

- Power on
- Push [Slide] key to “TEST” mode, the screen is lighted up, means the camera is powered on. All functions and parameters can be set now, for details please check chapter 4. If you are not familiar with this product, suggest you to use default setting.
- Modes switch on “TEST” mode
- When [Slide] key is on “TEST” mode, the camera can switch among each mode. The operation method is as follows:
  1. When [Slide] key is on “TEST” mode, camera will default on “Photo mode”
  2. Press [MODE] key, the camera can switch among “Photo” mode, “Video” mode, and “Playback” mode. And users will see the icon changing accordingly on top left corner of the screen:  
 “” Represent “Video” mode; “” Represent “Photo” mode; “” / “” Represent “Playback” mode.

#### NOTICE:

**Modes switch on “TEST” mode means can only switch the preview mode, not the camera working mode.**

**If you want to change the camera’s working mode, users must do so under the settings menu.**

- Test shot before use  
To ensure that the camera works properly, please do the test shot before use.
  1. Push the [Slide] key to “TEST” mode, press [OK] key to take several photos;
  2. Press [Mode] key to shift to “Video” mode, then press [OK] key to start to record a video.
  3. Press [Mode] key to shift to “Playback” mode, users can playback photos or videos on the screen, to check whether the camera is working properly.
- Monitor shooting  
Set the camera parameters, install the camera into the shooting area, adjust the direction of the camera, and ensure the lens is aligned to the shooting range.  
Push [Slide] key to “ON” mode, camera will display 15 seconds countdown and the red light on front housing will flash. After 15 seconds, screen will turn black and camera will enter into monitor mode. When moving animals or persons in field of vision are detected, the camera will take photos or record videos automatically.

#### NOTICE:

**The lens must face monitor area.**

**Battery life varies in different modes or environments.**

- Power off

When shutting down, you must operate in the following order:

When [Slide] key is "ON" mode, press [Slide] key to "TEST" mode first, the camera displays the starting screen and then enters into the photo preview. At this time, press [Slide] key to "OFF" mode, the camera will be powered off.

When [Slide] key is in the "TEST" mode, move [Slide]key to "OFF" mode, the camera will be turned off.

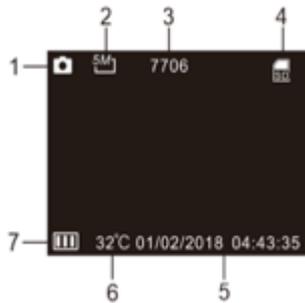
After shutdown, please wait 3 seconds before powering on again.

**NOTICE: If the camera is working when pushing [Slide] key, the camera will automatically save the file.**

### 3.2 PHOTO MODE INTERFACE

Press [Slide] key to "TEST" mode, and default mode is "Photo" mode. At this time, the following icon will be displayed on the screen:

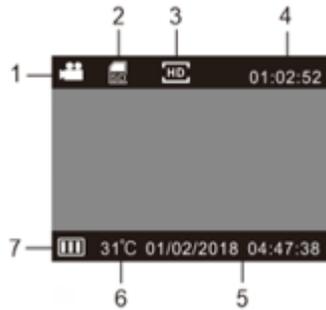
1. Photo mode indicator	2. Photo resolution indicator	3. Number of photo to take	4. Memory card indicator
5. Date time indicator	6. Environment temperature indicator	7. Battery capacity indicator	



### 3.3 VIDEO MODE INTERFACE

In photo mode, the [Slide] key is on "TEST" mode, press [Mode] key to switch to "Video" mode. The following icon will be displayed on the screen:

1. Video mode indicator	2. Memory card indicator	3. Video resolution indicator Frame rate indicator	4. Surplus video time indicator
5. Date Time indicator	6. Environment temperature indicator	7. Battery capacity indicator	



## 4. MENU SETTINGS

This chapter will help you to understand how to set and use various upper functions.

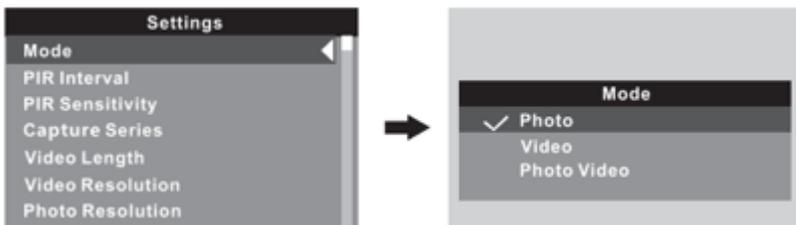
To set the camera's parameters, users must push [Slide] key to "TEST" mode and keep in photo or video mode. The parameters can only be set in this mode, and all settings in chapter 4 must be done in this mode.

The menu operation is the same in photo mode and video mode. After all the settings are completed, the [Slide] key must be pushed to "ON" mode before the camera working according to the parameters users set.

### 4.1 MODE

This function determines what kind of working mode the camera will work with in monitor shooting status (the [Slide] key is on "ON" mode.).

1. In Photo/Video mode, press [MENU] key to shift to the "Setting" menu;
2. Press [UP] or [DOWN] key to select "Mode", press [OK] key to enter into sub-menu interface;
3. In the sub-menu interface, press [UP] or [DOWN] key to select desired value mode: Photo/Video/Photo & Video;
4. Press [OK] key to confirm saved and back to "Settings" menu, press [MENU] key to back to main interface.



**NOTICE:** Selecting "Photo" mode: the camera will only take photos when pushing the [Slide] key to "ON" mode.

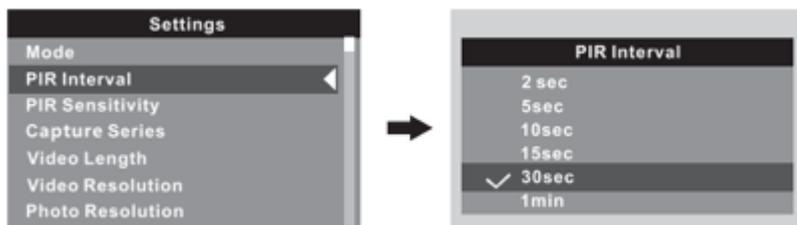
Selecting "Video" mode: the camera will only record videos when pushing the [Slide] key to "ON" mode.

**Selecting “Photo & Video” mode: the camera will take photo first ,then record video when pushing the [Slide] key to “ON” mode.**

#### 4.2 PIR INTERVAL

This function is to set the PIR interval time (That is after taking a photo or video, how long to wait before starting detection), the camera is preset with a variety of interval time modes, allowing the user to choose the best interval time.

1. Press [MENU] key to shift to the “Settings” menu;
2. Press [UP] or [DOWN] key to select “PIR Interval”, press [OK] key to enter into the sub-menu interface;
3. In the sub-menu interface, press [UP] or [DOWN] key to select desired value: 2sec /5sec/10sec/15sec/30sec/1min/3min/5min/10min/15min/30min.
4. Press [OK] key to confirm saved and back to “Settings” menu, press [MENU] key to back to main interface.

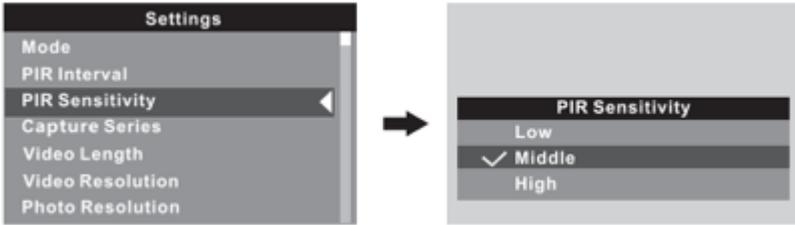


**NOTICE: The PIR interval has a significant impact on battery life. The smaller the interval number, the easier it is for the camera to capture the target, but it will use more power. The larger the interval number, the more power the camera saves, but it will tend to miss the target.**

#### 4.3 PIR SENSITIVITY

This functions is to set the sensitivity level of PIR sensor, users can choose the appropriate sensitivity according current environment.

1. Press [MENU] key to shift to the “Settings” menu;
2. Press [UP] or [DOWN] key to select “PIR Sensitivity”, press [OK] key to enter into the sub-menu interface;
3. In the sub-menu interface, press [UP] or [DOWN] key to select desired level: Low/ Middle/High.
4. Press [OK] key to confirm saved and back to “Settings” menu, press [MENU] key to back to main interface.

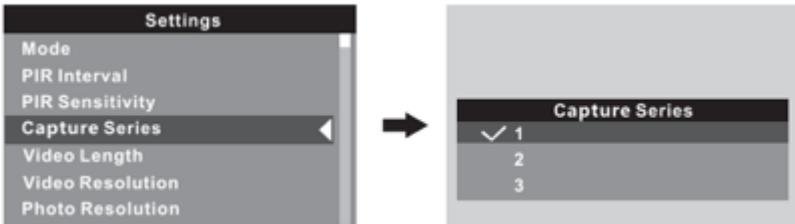


**NOTICE: The PIR sensitivity has a significant impact on battery life. The higher the sensitivity level, the easier it is for the camera to capture the target, but it will use more power. The lower the sensitivity level, the more power the camera saves, but it will tend to miss the target.**

#### 4.4 CAPTURE SERIES

This function is to set the number of photos the camera will take at a time. It is only applicable to photo mode, not to video mode.

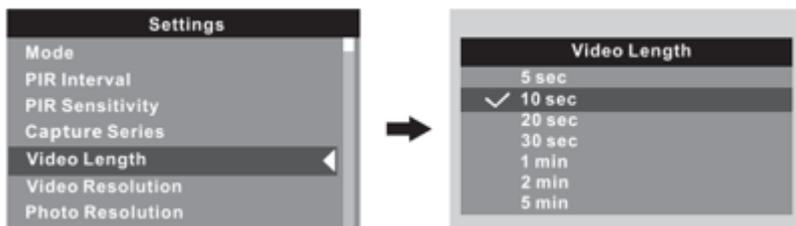
1. Press [MENU] key to shift to the "Settings" menu;
2. Press [UP] or [DOWN] key to select "Capture Series", press [OK] key to enter into the sub-menu interface;
3. In the sub-menu interface, press [UP] or [DOWN] key to select desired value: 1/2/3.
4. Press [OK] key to confirm saved and back to "Settings" menu, press [MENU] key to back to main interface.



#### 4.5 VIDEO LENGTH

This function is to set the video length, It is only applicable to video mode, not to photo mode.

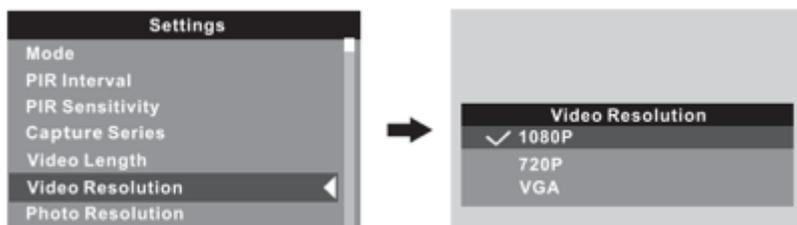
1. Press [MENU] key to shift to the "Settings" menu;
2. Press [UP] or [DOWN] key to select "Video Length", press [OK] key to enter into the sub-menu interface;
3. In the sub-menu interface, press [UP] or [DOWN] key to select desired value: 5sec/10sec/20sec/30sec/1min/2min/5min.
4. Press [OK] key to confirm saved and back to "Settings" menu, press [MENU] key to back to main interface.



#### 4.6 VIDEO RESOLUTION

This function is to set the video resolution, the higher the resolution, the better the video quality, the more space it occupied. It is only applicable to video mode, not to photo mode.

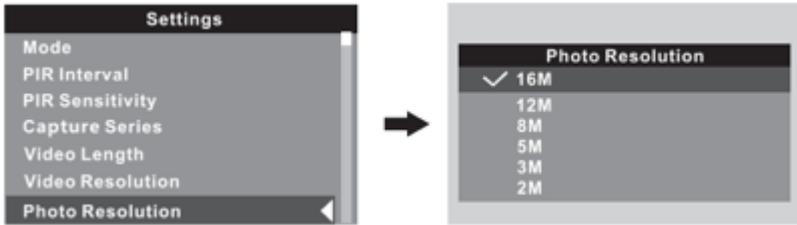
1. Press [MENU] key to shift to the "Settings" menu;
2. Press [UP] or [DOWN] key to select "Video Resolution", press [OK] key to enter into the sub-menu interface;
3. In the sub-menu interface, press [UP] or [DOWN] key to select desired resolution: 1080P/720P/VGA.
4. Press [OK] key to confirm saved and back to "Settings" menu, press [MENU] key to back to main interface.



#### 4.7 PHOTO RESOLUTION

This function is to set the photo resolution. It is only applicable to photo mode, not to video mode.

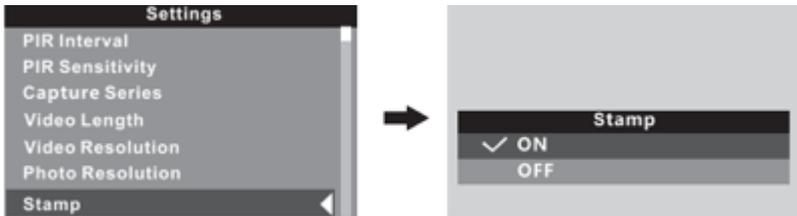
- Press [MENU] key to shift to the "Settings" menu;
- Press [UP] or [DOWN] key to select "Photo Resolution", press [OK] key to enter into the sub-menu interface;
- In the sub-menu interface, press [UP] or [DOWN] key to select desired resolution: 16M/12M/8M/5M/3M/2M.
- Press [OK] key to confirm saved and back to "Settings" menu, press [MENU] key to back to main interface.



#### 4.8 STAMP

This function is to set whether or not the stamp information would be displayed on photo/video files, the stamp information includes: camera name, ambient temperature, date/time, month image, etc. The operation method is as follows:

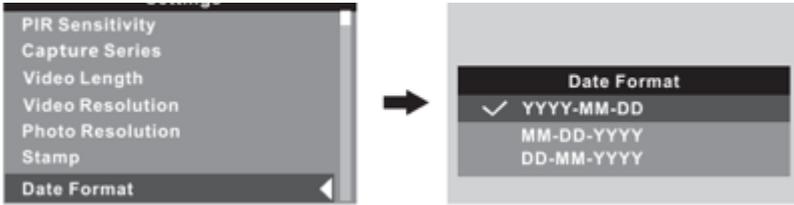
1. Press [MENU] key to shift to the "Settings" menu;
2. Press [UP] or [DOWN] key to select "Stamp", press [OK] key to enter into the sub-menu interface;
3. In the sub-menu interface, press [UP] or [DOWN] key to select whether or not display stamp information: ON/OFF.
4. Press [OK] key to confirm saved and back to "Settings" menu, press [MENU] key to back to main interface.



#### 4.9 DATE FORMAT

This function is to set the display format of the date on the camera's screen and photo and video file.

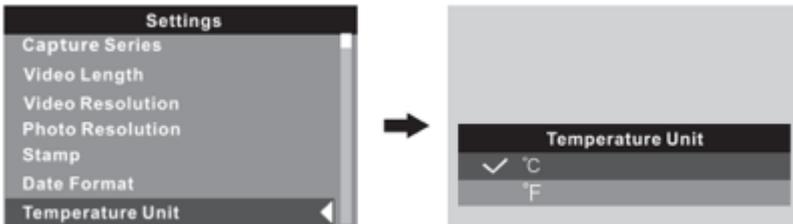
1. Press [MENU] key to shift to the "Settings" menu;
2. Press [UP] or [DOWN] key to select "Date Format", press [OK] key to enter into the sub-menu interface;
3. In the sub-menu interface, press [UP] or [DOWN] key to select desired format: YYYY-MM-DD/MM-DD-YYYY/DD-MM-YYYY.
4. Press [OK] key to confirm saved and back to "Settings" menu, press [MENU] key to back to main interface.



#### 4.10 TEMPERATURE UNIT

This function is to set the temperature unit, "°F" on behalf of Fahrenheit, "°C" on behalf of the Celsius temperature.

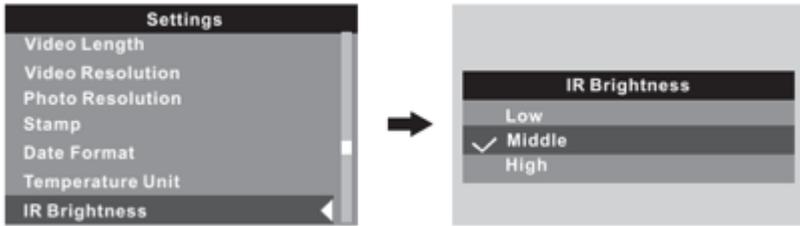
1. Press [MENU] key to shift to the "Settings" menu;
2. Press [UP] or [DOWN] key to select "Temperature Unit", press [OK] key to enter into the sub-menu interface;
3. In the sub-menu interface, press [UP] or [DOWN] key to select desired unit:°C/°F.
4. Press [OK] key to confirm saved and back to "Settings" menu, press [MENU] key to back to main interface.



#### 4.11 IR BRIGHTNESS

This function is to set the emission brightness of the infrared lamp, the user can choose the appropriate luminance option according to the operating environment.

1. Press [MENU] key to shift to the "Settings" menu;
2. Press [UP] or [DOWN] key to select "IR Brightness", press [OK] key to enter into the sub-menu interface;
3. In the sub-menu interface, press [UP] or [DOWN] key to select desired brightness: Low/Middle/High.
4. Press [OK] key to confirm saved and back to "Settings" menu, press [MENU] key to back to main interface.

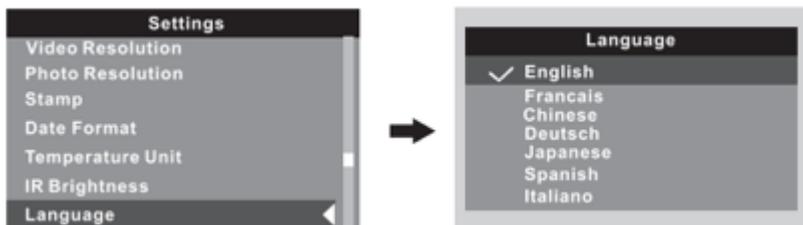


**NOTICE: The IR brightness has a significant impact on battery life and night vision of the camera. While choosing high brightness, more power is consumed, but night vision effect is clearer. While choosing low brightness, the night vision effect is poorer, but more power is save.**

#### 4.12 LANGUAGE

This function is to set the display and operation language of the camera, please select according to the usage habit.

1. Press [MENU] key to shift to the "Settings" menu;
2. Press [UP] or [DOWN] key to select "Language", press [OK] key to enter into the sub-menu interface;
3. In the sub-menu interface, press [UP] or [DOWN] key to select desired language: English/Finnish/Norwegian/German/Swedish;
4. Press [OK] key to confirm saved and back to "Settings" menu, press [MENU] key to back to main interface.

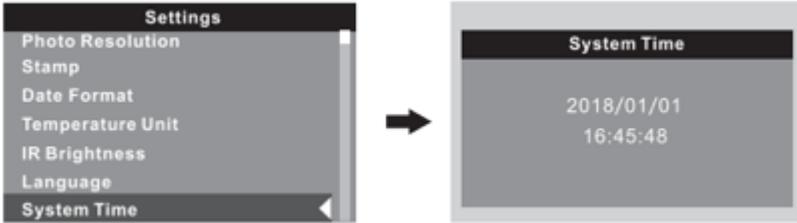


#### 4.13 SYSTEM TIME

This function is to set the camera's system time and date.

1. Press [MENU] key to shift to the "Settings" menu;
2. Press [UP] or [DOWN] key to select "System Time", press [OK] key to enter into the sub-menu interface;
3. In the sub-menu interface, the user sets the current date and time according to the actual situation. The operation method is: press [UP] or [DOWN] key for specific settings, and press [OK] key to switch among year/month/day/hour/minute/second.

4. Press [OK] key to confirm saved and back to "Settings" menu, press [MENU] key to back to main interface.

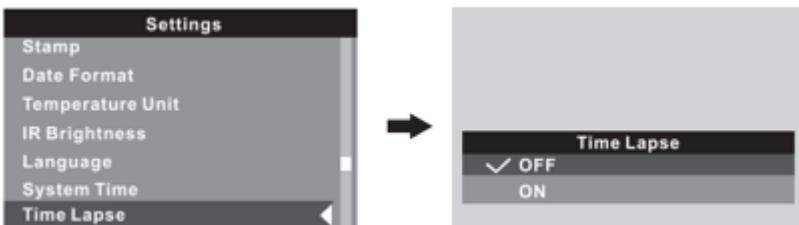


#### 4.14 TIME LAPSE

The time-lapse photography function is a kind of time compression photography technology, which can compress the shooting process of several minutes and hours in a relatively short time and play it in video mode.

"Time Lapse " is to set how often a photo is taken in a period of time, and then automatically assemble all the photos into a video file.

1. Press [MENU] key to shift to the "Settings" menu;
2. Press [UP] or [DOWN] key to select "Time Lapse", press [OK] key to enter into the sub-menu interface;
3. In the sub-menu interface, press [UP] or [DOWN] key, select whether or not open the interval time for time-lapse photography: OFF /ON; While selecting "ON", the user needs to set the interval time according to the actual situation: 15sec/30sec/1min/3min/ 5min/10min/15min/30min; While selecting "OFF", the time-lapse photography function is not enabled.
4. Press [OK] key to confirm saved and back to " Settings" menu, press [MENU] key to back to main interface.



#### NOTICE:

1. This function must be used in conjunction with "Timer Setting";
2. The PIR does not work within the set time period of "Time Lapse". But take photos according to the time interval of "Time Lapse" , and then assemble all the photos into a video file.

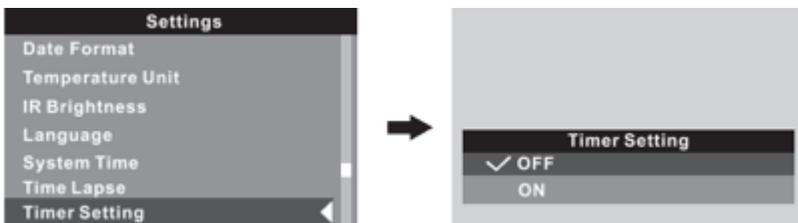
**3. Select the “Time-lapse photography” mode : when the function switch is pushed to “ON”, the camera will take photos according to the parameters set by the user, and automatically merge into a video file.**

**4. After setting “Time-lapse photography” mode, in the menu of “Mode”, you can only select photo mode, but not other modes.**

#### 4.15 TIMER SETTING

This function is to set the starting and ending time period for time-lapse photography. If it is used together with the “Time Lapse” function, within the set time period, photos will be taken according to the time interval of “Time Lapse”, and then combine them into a video file. If this function is used independently, within the set time period, photos will be taken according to the time interval of “PIR Interval”. Whether or not this function is used in conjunction with the “Time Lapse” function or separately, it does not take photos outside the time period.

1. Press [MENU] key to shift to the “Settings” menu;
2. Press [UP] or [DOWN] key to select “Timer Setting”, press [OK] key to enter into the sub-menu interface;
3. In the sub-menu interface, press [UP] or [DOWN] key, select whether or not set the starting and ending time period for time-lapse photography: OFF /ON; While selecting “OFF”, it stops setting the time period. While selecting “ON”, press [OK] key to the time period; Setting method: In start line: Press [UP] or [DOWN] key to set the start time, press [OK] key to switch between hour/minute. After setting the start line, press [OK] key to switch to the end line, press [UP] or [DOWN] key to set the end time.
4. Press [OK] key to confirm saved and back to “Settings” menu, press [MENU] key to back to main interface.



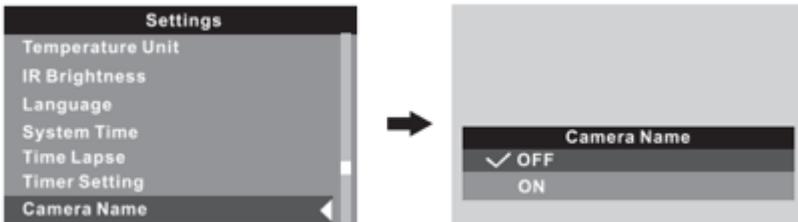
**NOTICE: The start time of this setting must be bigger than the current system time. When this function is set with the “Time Lapse”, the photos taken during the time period will be automatically merged into a video file. When using the “Timer Setting” function independently, within the set time period, the PIR sensor will work and photos will be taken according to the PIR induction; And it will not take photos outside the set time period.**

#### 4.16 CAMERA NAME

Each camera can be set a unique 4-bit serial number to distinguish other cameras.

When the “Stamp” is set “On”, the serial number will be displayed at the bottom of the photo and video.

1. Press [MENU] key to shift to “Settings” option;
2. Press [UP] or [DOWN] key, select “Camera Name”, press [OK] key to enter into the sub-menu interface;
3. In the sub-menu interface, press [UP] or [DOWN] key, select whether or not display the serial number on the photo/video: OFF /ON; While selecting “OFF”, it stops setting the serial number. While selecting “ON”, there comes a setting interface, press [OK] key to enter into the “Camera Name” setting operation, press [UP] or [DOWN] key to set the Serial number, press [OK] key to switch among 4-bit numbers.
4. Press [OK] key to confirm saved and back to “Settings” menu, press [MENU] key to back to main interface.



#### 4.17 PASSWORD

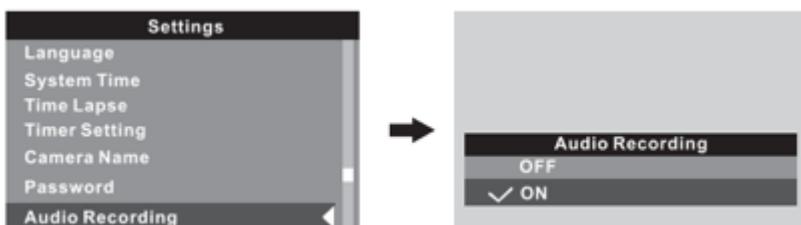
This function is to set the camera’s boot password to protect your privacy. After setting the password, you need to enter your password every time you start the machine.

1. Press [MENU] key to shift to “Settings” option;
2. Press [UP] or [DOWN] key, select “Password”, press [OK] key to enter into the sub-menu interface;
3. In the sub-menu interface, press [UP] or [DOWN] key, select whether or not set the password: OFF /ON; While selecting “OFF”, it stops setting the password. While selecting “ON”, there comes a setting interface, press [OK] key to enter into the “Password” setting operation, press [UP] or [DOWN] key to set the password, press [OK] key to switch among 4-bit numbers.
4. Press [OK] key to confirm saved and back to “Settings” menu, press [MENU] key to back to main interface.
5. Notice:
6. Users need to keep their passwords in mind.
7. If the users forget the power-on password, they can use the super password “1111” to enter the camera.

#### 4.18 AUDIO RECORDING

This function is to set whether or not the sound is on when recording.

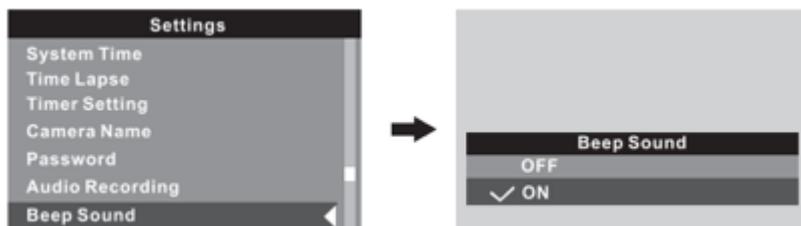
1. Press [MENU] key to shift to the "Settings" menu;
2. Press [UP] or [DOWN] key to select "Audio Recording", press [OK] key to enter into the sub-menu interface;
3. In the sub-menu interface, press [UP] or [DOWN] key to select whether or not open the audio sound: OFF/ON.
4. Press [OK] key to confirm saved and back to "Settings" menu, press [MENU] key to back to main interface.



#### 4.19 BEEP SOUND

This function is to turn on or off the button prompt sound.

1. Press [MENU] key to shift to the "Settings" menu;
2. Press [UP] or [DOWN] key to select "Beep Sound", press [OK] key to enter into the sub-menu interface;
3. In the sub-menu interface, press [UP] or [DOWN] key to select whether or not open the beep sound: OFF/ON.
4. Press [OK] key to confirm saved and back to "Settings" menu, press [MENU] key to back to main interface.

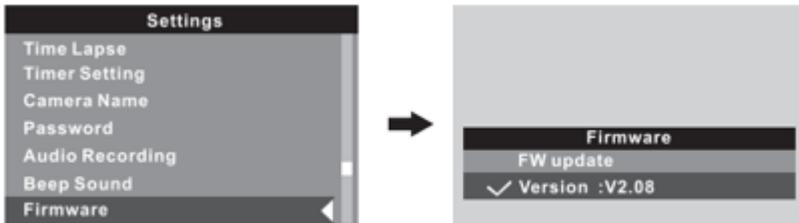


#### 4.20 FIRMWARE

This function allows users to view the current version number of the camera and can help users upgrade to the latest firmware.

1. Press [MENU] key to shift to the "Settings" menu;
2. Press [UP] or [DOWN] key to select "Firmware", press [OK] key to enter into the sub-menu interface;

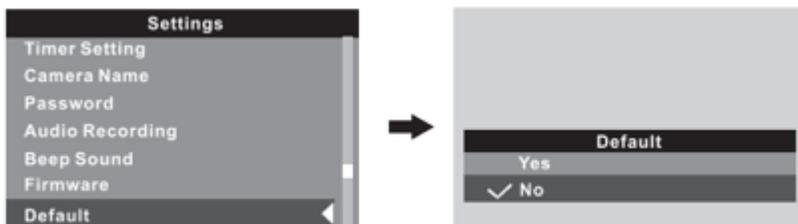
3. In the sub-menu interface, press [UP] or [DOWN] key to select desired option: FW update/Version. While selecting “FW update”, users must make sure there is the latest software file that can be upgraded in the memory card, and then press [OK] key to upgrade the software automatically. After update, the camera will shut down automatically. When need to view the version number, users can view it directly in the “Version” sub-menu.
4. After setting, press [OK] key to back to “Settings” menu.



#### 4.21 DEFAULT

This function can restore the camera's factory default parameters. It can be used if the camera is not set correctly. And it will not delete camera and memory card data.

1. Press [MENU] key to shift to the “Settings” menu;
2. Press [UP] or [DOWN] key to select “Default”, press [OK] key to enter into the sub-menu interface;
3. In the sub-menu interface, press [UP] or [DOWN] key to select whether or not restore the camera's default: Yes/No.
4. After setting, press [OK] key to back to “Settings” menu.

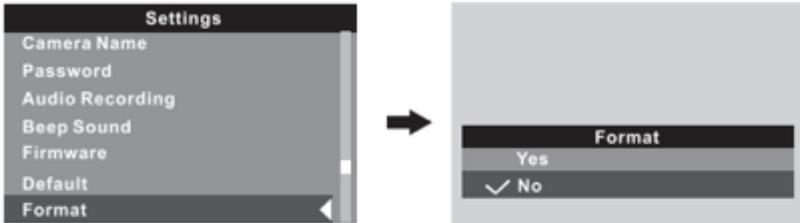


#### 4.22 FORMAT

This function is to format the memory card and delete all the files of memory card.

1. Press [MENU] key to shift to the “Settings” menu;
2. Press [UP] or [DOWN] key to select “Format”, press [OK] key to enter into the sub-menu interface;
3. In the sub-menu interface, press [UP] or [DOWN] key to select whether or not format the memory card: Yes/No.

4. After setting, press [OK] key to back to "Settings" menu.



**NOTICE: Be cautious with this function, the photo/video files can't be found once you format the SD card.**

## 5. PLAYBACK MODE

Photo and video files shot by the camera can be played back on the camera. Users can also lock, unlock, and delete files on the camera.

When operating in playback mode, the [SLIDE] key must be remained in "TEST", press [MODE] key to enter playback mode and keep in this mode.

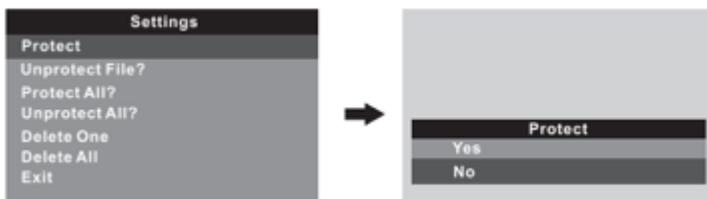
### 5.1 VIEW FILE

1. Press [MODE] key to enter into playback mode, the files in the card are displayed on the screen. And the icon on the upper left corner of the screen represents the file type, displaying "📷" for photo, and "📹" for video.
2. Press [UP] or [DOWN] key to display the file forward or backward.
3. While selecting video file, press [OK] key to play, then press [OK] key again to pause; Press [MENU] key to stop playing video.
4. After setting, press [OK] key to back to "Settings" menu.

### 5.2 PROTECT FILE

In playback mode, locking the current photo or video file to protect the file from accidental deletion.

1. Press [MODE] key to shift to playback mode.
2. Press [UP] or [DOWN] key to select the photo or video file to be locked.
3. Press [MENU] key to shift to playback mode menu.
4. Press [UP] or [DOWN] key to select "Protect", press [OK] key to select the option: Yes/No.
5. Press [OK] key to perform the operation and return to playback mode menu.



**NOTICE:**

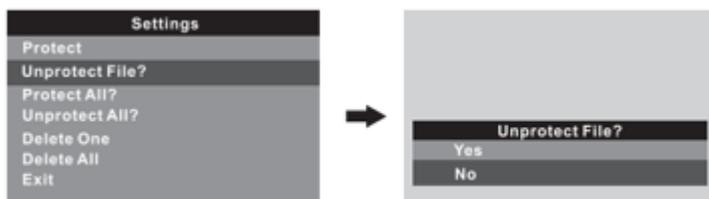
1. In playback mode, once protected the file, the icon “” would be displayed on the upper left corner of the screen.

2. A delete operation does not delete a protected file, but a formatting operation does.

5.3 UNPROTECT FILE

In playback mode, this function is to unlock the current protected file.

1. Press [MODE] key to shift to playback mode.
2. Press [UP] or [DOWN] key to select the locked photo or video file.
3. Press [MENU] key to shift to playback mode menu.
4. Press [UP] or [DOWN] key to select “Unprotect File”, press [OK] key to select the option: Yes/No.
5. Press [OK] key to perform the operation and return to playback mode menu.

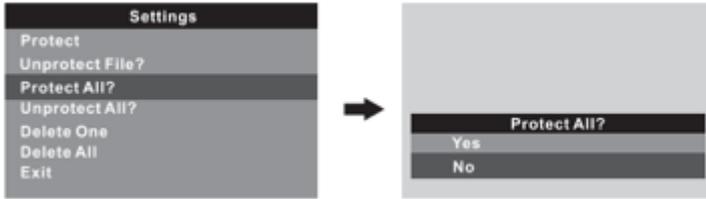


**NOTICE:** In playback mode, once unlocked the protected file, the icon “” on the upper left corner of the screen would disappear.

5.4 PROTECT ALL

In playback mode, locking all photo or video files to protect them from accidental deletion.

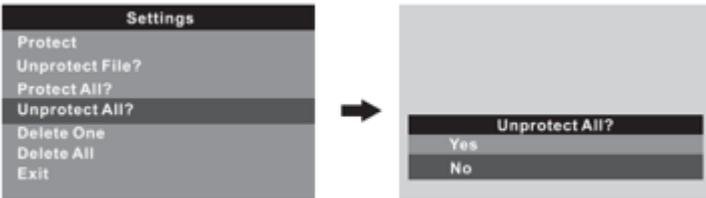
1. Press [MODE] key to shift to playback mode.
2. Press [MENU] key to shift to playback mode menu.
3. Press [UP] or [DOWN] key to select “Protect All”, press [OK] key to select the option: Yes/No.
4. Press [OK] key to perform the operation and return to playback mode menu.



### 5.5 UNPROTECT ALL

In playback mode, this function is to unlock all protected files.

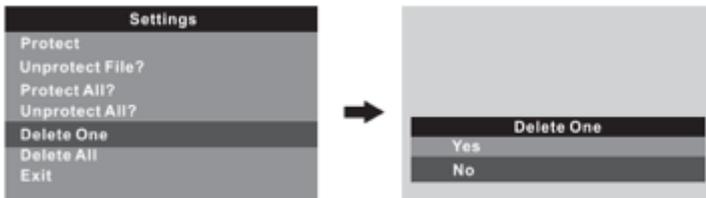
1. Press [MODE] key to shift to playback mode.
2. Press [MENU] key to shift to playback mode menu.
3. Press [UP] or [DOWN] key to select "Unprotect All", press [OK] key to select the option: Yes/No.
4. Press [OK] key to perform the operation and return to playback mode menu.



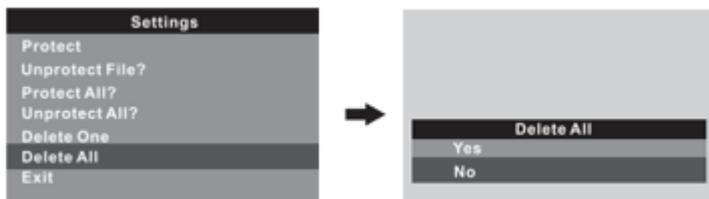
### 5.6 DELETE ONE

In playback mode, this function is to delete the selected file.

1. Press [MODE] key to shift to playback mode.
2. Press [MENU] key to shift to playback mode menu.
3. Press [UP] or [DOWN] key to select "Delete One", press [OK] key to select the option: Yes/No.
4. Press [OK] key to perform the operation and return to playback mode menu.



**NOTICE: Be cautious to delete file, after deletion, the files can't be recovered.**



## 5.7 DELETE ALL

This function is to delete all photo and video files, the specific operation is as follows .

1. Press [MODE] key to shift to playback mode.
2. Press [MENU] key to shift to playback mode menu.
3. Press [UP] or [DOWN] key to select "Delete All", press [OK] key to select the option: Yes/No.
4. Press [OK] key to perform the operation and return to playback mode menu.



## 5.8 EXIT

This function is to return to playback mode menu and return to the playback mode interface, the specific operation is as follows.

1. Press [MODE] key to shift to playback mode.
2. Press [MENU] key to shift to playback mode menu.
3. Press [UP] or [DOWN] key to select "Exit".
4. Press [OK] key to return to the playback mode preview interface.

## 6 APPENDIX

### 6.1 COMMON PROBLEMS AND SOLUTIONS

Problems	Possible Causes	Solutions
Cannot be turned on	Low battery or wrong battery type.	Replace for correct model and full charged battery.
	Wrong battery installation	Refer to the instructions to install the battery in correct way.
	There's something in the battery compartment	Check the battery compartment for any foreign matter and clean up
	Incorrect specification or connection of external power supply	Using appropriate external power supply and proper connection
	Working temperature is too high or too low	Use the camera at the right temperature.
Suddenly shut down	Low battery	Replace with new batteries.
Photos are normal during the day, but dark at night	Low power or insufficient external power current, the infrared lamp does not work normally	Replace with new batteries.
Do not read cards or save files	Power outage before file storage	Replace with new batteries.
	The speed of memory card is too slow	Replace a memory card with write speed of CALSS4 or more.
The camera crashed while it was working	The battery power is insufficient, or the external power supply does not meet the requirements	Replace with new batteries or an external power supply that meets the requirements
	The memory card is damaged or of poor quality	Replace a qualified memory card, use the camera format the memory card, restore the camera to the default setting, and restart the camera.
All keys are useless	A short circuit occurs when the camera is connected to other equipment	Disconnect, restart the camera, and properly connect the camera to other devices.
	A key is stuck	Press your finger to check each key and restart the camera.
	The poor quality of the memory card makes the camera unable to operate normally	Remove the memory card, reinstall the batteries and restart the camera.

The camera consumes a lot of power	Camera Settings, the PIR interval is too short.	The PIR interval can be lengthened appropriately to extend the battery life.
	Camera Settings, the PIR sensitivity is too high.	The PIR sensitivity can be reduced appropriately to extend the battery life.
	Camera Settings, the IR brightness is too high.	The IR brightness can be reduced to extend the battery life.
	Camera Settings, the video length is too long.	Set a shorter video length (such as 5 seconds) to extend the battery life.
	Camera Settings, the capture series is more.	Set a low number of capture series (such as 1) to extend the battery life.
	More photos and videos are taken at night	The night infrared light consumes a lot of electricity. If more photos or videos are taken at night, it is recommended to use external power supply.
	The above parameters are the balance between the camera performance and the battery life. Users can make reasonable adjustments according to the manual and personal requirements to obtain a reasonable effect and battery life.	
The camera leaks or fogs	The waterproof ring falls off or there is foreign matter on the waterproof ring	Check the waterproof ring, keep the waterproof ring clean, the waterproof ring cannot be pop-up, upturned.
	The lock is not fastened properly, or the waterproof glue plug of the external power supply is not fastened properly	Before the camera works normally, all lock fasteners must be fastened, waterproof glue plug must be plugged, and carefully checked.
	Incorrect use, such as putting the camera in water	Cameras can keep out the rain, but never put in water.
	Install or place the camera incorrectly, such as upside down	Install and place the camera properly. The head of the camera must be up and as vertical as possible. When installed close to the ground, make sure the bottom of the camera is more than 20CM above the ground.
	The camera can work well when it rains. If the camera is foggy or flooded but working normally, please immediately shut down and remove the battery. Dry all the water or fog with a dry towel, then open the camera lid and stand upright in a ventilated place, then use the camera after fully dry.	

Prompt password error	Forget the password	Enter the super password "1111" into the camera, then you can set and remember the new password, or you can turn it off. If the super password also fails, please contact the dealer.
When using external power supply, the camera can't work normally	Poor power contact	Check the interfaces to ensure that they are firmly connected
	External power source error	Replace the qualified external power supply. Requirement: output voltage DC 6V (+5% or -5%), output current is greater than or equal to 2A. The camera cannot work under too low voltage, but over voltage will damage the camera.
The camera work abnormally and the function is disordered	Users incorrectly set the parameters	Set it correctly. If don't know how to set it, users can restore the camera's default settings and reboot. See this manual for details.
The camera can't shoot automatically	The PIR sensor is not working when the camera is on the time lapse function	Turn off the time lapse function. If don't know how to set it, users can restore the camera's default settings and reboot. See this manual for details.
Cannot switch to "Video" or "Photo + Video" mode	The time lapse function is on.	Turn off the time lapse function. If don't know how to set it, users can restore the camera's default settings and reboot. See this manual for details.
Other problems	The camera can be turned on, but there are other abnormal problems	Try the following ways: 1. Replace the batteries with enough power. 2. Replace the qualified memory card and use the camera format it. 3. Restore the camera to the default setting and restart.
	If the above method cannot solve the problem, the camera may be damaged, please contact the dealer.	

## 6.2 TECHNICAL SPECIFICATIONS

Image Sensor	3.0 MP Color CMOS, Max. 16MP ( Software Interpolation )
Lens	F=2.5 f=8.7mm, FOV=50°
Storage	Support SD/SDHC Card, Max. to 32GB
PIR Trigger Time	0.5s
IR lamps specifications and quantity	940nm/40pcs, Adjustable brightness
PIR sensitivity	High/Middle/Low
PIR sensitive distance	0~18 m
PIR angle	90°
PIR delay	2s~30mins
LCD screen	2.0" TFT-LCD
Working mode	Photo/Video/Photo & Video/Time Lapse
Photo	Format: JPEG 16MP/12MP/8MP/5MP/3MP/2MP
Video	Format: AVI 1080P/720P/VGA
Video length	Optional, 5s ~ 5mins
Language	English/Finnish/Norwegian/German/Swedish
Microphone	Yes, Built-in
Speaker	Yes, Built-in
Temperature detection	Support
Working Voltage	DC 6V
Batteries Type	4/8pcs AA Batteries
External Power Supply	DC 6V/2.0 (charge cord not included)
Waterproof level	IP66
Dimension	145 (L)×105(W)×70(H)mm
Weight	287±5g(exclude batteries)







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