

# Intelligent Trail Camera

12M, 1080P/30FPS, IP68, MMS /SMTP

Technology Innovation from EREAGLE



## User Manual

### E1 Series

Thank you for purchasing our camera series products.

Before attempting to connect or operate this product, please read these instructions carefully and keep this manual for future use.



V112 ED-E1S-TM-01

# ----- CATALOG -----

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This equipment has been tested and found to comply with limits for a Class A digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment.

**WARNING:** Changes or modifications not expressly approved by the manufacturer could void the user's authority to operate the equipment.

**WARNING:** To prevent electric shock and risk of fire hazards:

- Do NOT use power sources other than that specified.

#### **Termly Inspection**

Please refer inspection to accredited service person.

#### **Do NOT install on weak upholder**

Install on strong enough upholder, or may fall off or cause other hazards.

#### **Keep off inflammable gas or liquid**

May cause risk of fire hazards or else.

#### **Do not exceed the limit of temperatures using the camera**

The normally working temperature of the camera is  $-30^{\circ}\text{C}\sim+70^{\circ}\text{C}$ , once used in high temperature conditions, please pay attention to ventilation.

#### **Do not let the camera suffered shock**

will lead to the camera failure.

#### **Do not let the camera is radiated By the radioactive substances**

If the camera is exposure to the radioactive environment, will damage the CMOS of the camera

#### **Do not remove camera privately**

Will lead to damage the internal structure or components, or risk of fire, electric shock, or the other dangerous.

#### **Please install the batteries with the correct polarity**

#### **Do not use the old and new batteries together**

Will lead the camera with malfunction and the battery leakage.

# 1. General Information

## 1.1. Product introduction

The Ereagle trail camera is a smart IR surveillance waterproof device. It can take high quality photo (up to 12M pixels(Interpolated), real 5M pixels and video automatically with the preset parameter by customer, triggered by any movement of the human being and animal by the highly sensitive PIR sensor. The double D/N filter IR cut switcher helps while the ray of light is not good and then take clearer photos and videos.

There is one 2.0" color LCD display screen and sound recorder, it can check whether the photo area is reasonable by inner laser light and check photo and video at any time.

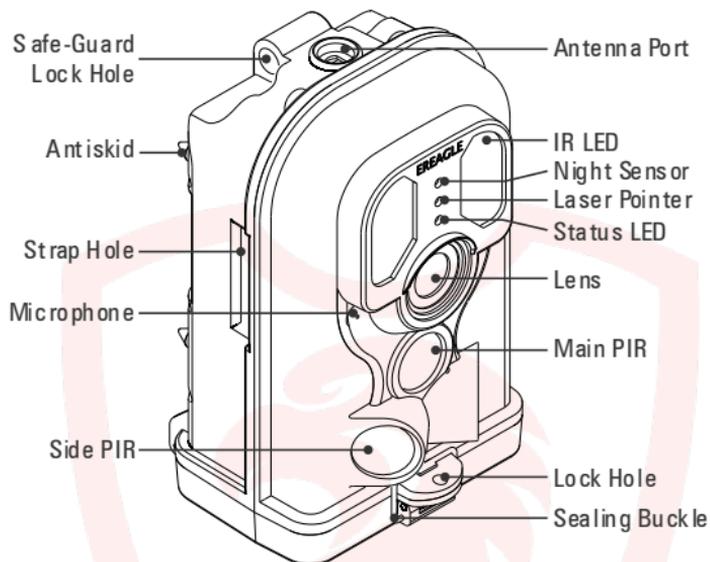
With it's high waterproof grade of IP68, Ereagle trail camera can be used in outdoor.

The model Ere-E1S can automatically send pictures or text messages to the specified user's phone or mailbox. Users can also set the maximum number of messages sent per day to control the message cost.

## 1.2. Feature

- Built-in 2G GSM wireless image transmission function, SMS / MMS / E-mail(SSL) are optional.
- Support daily report SMS notification, Support low-power SMS notification.
- Support four frequency band quad-band: 850/900/1800 / 1900mhz.
- With 1/3" high definition 5MP image sensor, Low illumination:0.1Lux (LED off)
- 7.45mm fixed lens. (H FOV=50°, F3.0)
- Photo definition can be optional with 12M/8M/5M/3M/2M/1M, Support shooting maximum 5 photos
- 1080P/30fps full HD video recording, 1080P/720P/480P is optional
- The G. 726 audio compression method, to make real-time monitoring
- Support both photo and video mode, auto make video after the photo shooting, more convenient observation at the scene.
- With double infrared detectors, Pre detection and capture detection work together to make detection range wider and capture more accurate.
- Multiple PIR sensor design make the sensing distance 20 m / 65.62 feet, induction higher sensitivity, more accurate.
- PIR shortest trigger time can reach: 0.8 seconds.
- PIR main induction angle 45 degrees, on both sides of the sensor PIR Angle is 100degrees.
- Precision processing structure, waterproof level of IP68 (dust tight/flooding); Camouflage design.
- Support stamp of device name, time, temperature and moon phase.
- Support time taking pictures function, can set a day in three periods and time intervals, and can choose week repeat.
- Support capture at night, Invisible infrared light, makes the effective distance of 20 meters; Light intensity is adjustable.
- Built-in high-definition infrared cut, makes the shooting photo more real and gorgeous, switch more stable and reliable.
- 4 x AA / 8 x AA / 12 x AA group of alkaline battery can be optional, maximum standby working time can be up to ten months.
- Support 1.2V / 1.5V / 3.2V / 3.7V various specifications rechargeable batteries.
- Support electronic protection against reverse battery, so as not to damage the camera.
- 2.0" high resolution color LCD display screen; Adopt multi-function remote button, control more convenient and quickly.
- Support USB data connection and PC fast parameter settings.
- Support external power supply or solar power, to provide longer working hours.
- Support dismantling chains, protection lock and password protection function, to protect the camera safety.
- Support low power alert.
- Support TF card with maximum capacity of 64G.
- Support the laser alignment, to make more convenient installation.

### 1.3. Graphic Illustration



#### 1. Lens

It is used for collecting the video and image information of the detect target.

#### 2. Main PIR

It is used for inducting the moving objects of the heat resource, then trigger and take photos and video.

#### 3. Side PIR

Induce the border of heat resource.

#### 4. Microphone

Used for collecting the sound information.

#### 5. Laser Pointer

For position adjusting during the camera installation.

#### 6. IR LED

Provide light for night shooting.

#### 7. Status LED

The hints of camera state and trigger.

#### 8. Light Sensor

Induction of light intensity, trigger the camera into the day and night mode.

#### 9. Lock Hole

Lock the bottom cover, waterproof, dust-proof. Prevent malicious removal.

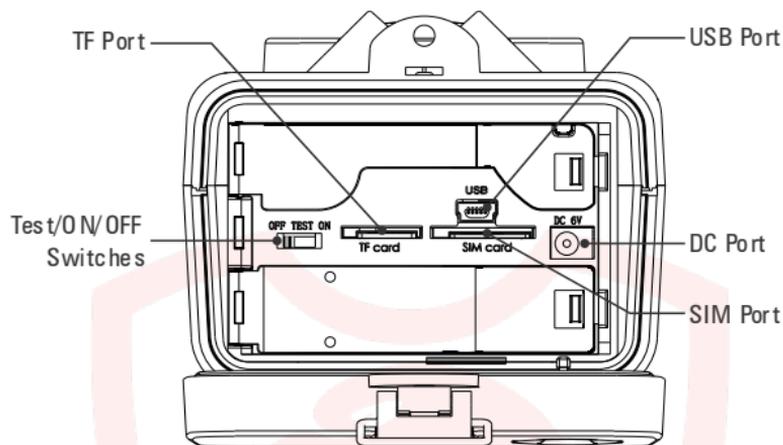
#### 10. Safe-Guard Lock Hole

Anti-theft device

#### 11. Antiskid

#### 12. Strap Hole

#### 13. Antenna Port



**14. DC Part.**

Used for external power supply, support DC 6V/2A power supply connection.

**15. USB Part**

connect PC with USB cable.

**16. TF Part**

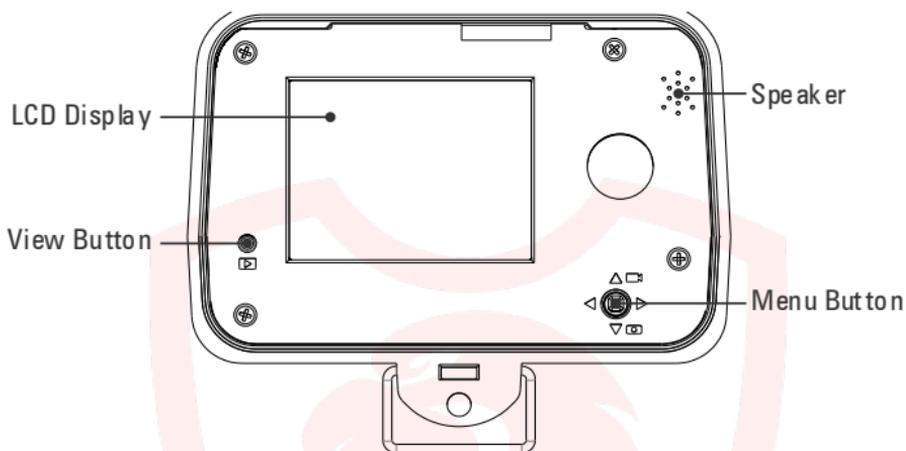
To store video, image and data information.

**17. SIM Part**

GSM communication card for transmitting or receiving text image information.

**18. TEST/ON/OFF Switches**

Include Test mode, ON mode and OFF mode.



**19. LCD Display**

For viewing video and image information and menu display.

**20. View Button**

For viewing video and image information.

**21. Menu Button**

For menu setting operation.

**22. Speaker**

Play video sound.

## 2. Installation and location selection

### 2.1. Bandage installation

The camera is designed with a bandage hole for fixing the camera.

Thread the bandage from one side to another side of the hole, then fix the bandage in a solid trunk of the tree, you can adjust the tension of bandage to adjust the camera position, tighten it after the adjustment.

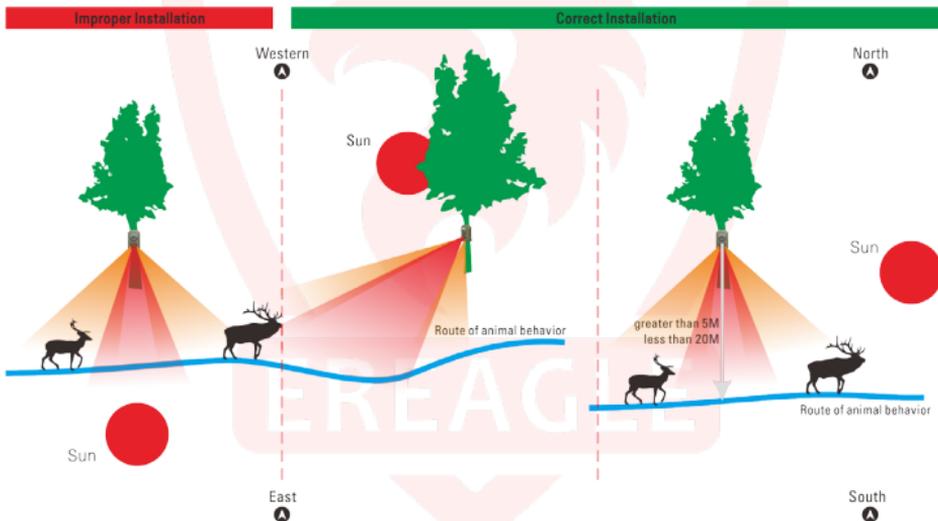
### 2.2. Seal the bottom cover

Camera is sealed with 20mm high-strength elastic metal buckle, after installation and testing, please make sure the bottom cover locked firmly to ensure that the camera with good waterproof, dustproof performance.

Note that the metal buckle should be fixed within raised part and then locked firmly.

### 2.3. Installation location selection

Selection of camera location see below.



After selecting shooting place, fix the camera on the thick trunk with the bandage and adjust the induction angle.

When finishing, shake the camera to see whether firm enough.

If fixed in the wall, you need to install the matched mounting bracket by standard British screw holes.



The camera is installed on a relatively thick tree or on the wall, To keep the proper height when fixed, so that it can shoot the corresponding action target.  
Avoid direct sunlight on camera lens.

## 3. Quick start

According to the instruction of above parts, operate the corresponding button, then you can complete the basic operation.

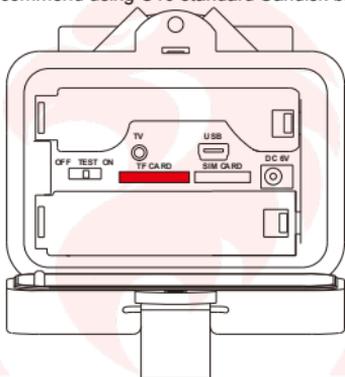
### 3.1. Battery installation

Prepare 4 x AA / 8 x AA / 12 x AA group of alkaline batteries, a group needs at least 4 x AA alkaline batteries.

Open the camera bottom cover, unlock the battery cover plate, to put the alkaline batteries in the battery box according to the polarity marked on the battery cover correctly, then close the battery cover.

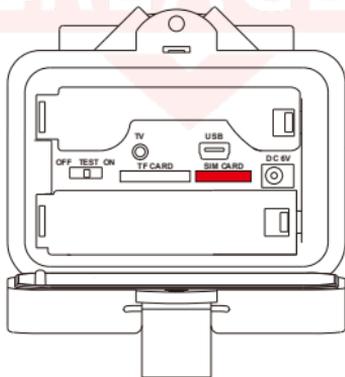
### 3.2. TF Card installation

After the battery is installation, insert the TF card to the right direction, make sure the TF card is unlocked before installation. (We recommend using C10 standard Sandisk brand TF card)



### 3.3. SIM Card installation

After TF card is installed, insert the SIM card correctly according to the specified direction, support the four bands: 850/900/1800 / 1900mhz.



### 3.4. Enter Test mode and ON mode

There are three mode for the switch, OFF, TEST and ON mode.

**OFF:** When the switch to the OFF position, the camera will be power off automatically.

**TEST:** When the switch to the TEST position, the camera enters the preview test status, you can manually start taking pictures, record videos, view photos and videos, set the parameters and so on. With this mode, you can also test the induction area of the PIR: When fix the camera into this mode, the user can walk slowly right in front of the camera from 3 to 20 meters. When the blue LED indicator light flashes, means this location can be inducted by the main PIR. When red LED flashes, means this position can be inducted by the side PIR.

**There are three status under test mode:** Preview status (on the LCD screen or TV screen, you can see the current camera image in front of the lens), Setting status (enter the parameter setting menu) and Playback status (In the LCD screen or TV, you can see the images from the SD card). After turned on with test mode, the camera automatically enters into preview status.

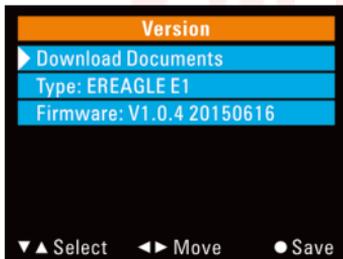
**ON:** also called automatic infrared shooting mode. When the switch to the ON position, the camera enters On mode. When entering this mode, the system will wait about 10 seconds, at the same time the red LED flashes, then goes out after that and goes into induction shooting state. After entering this mode, the system will automatically shooting based on your setup parameters, when the person or animal enters the monitoring area.

### 3.5. Download the Camera manual and Setup APP

Press "MENU" to set enter the setting menu.

Press "UP" and "DOWN" to move to Version setting, and press "MENU" to enter the sub-menu.

Press "UP" and "DOWN" to move to the Download Documents options, press "MENU" to start downloading .



"Download success" will appear on the screen. Files will be automatically saved in SD card.



The above is a simple operation. For more detailed instruction, Please refer to the instruction at the later Advanced Settings.

### 3.5. Guide for the setup menu (in the camera)

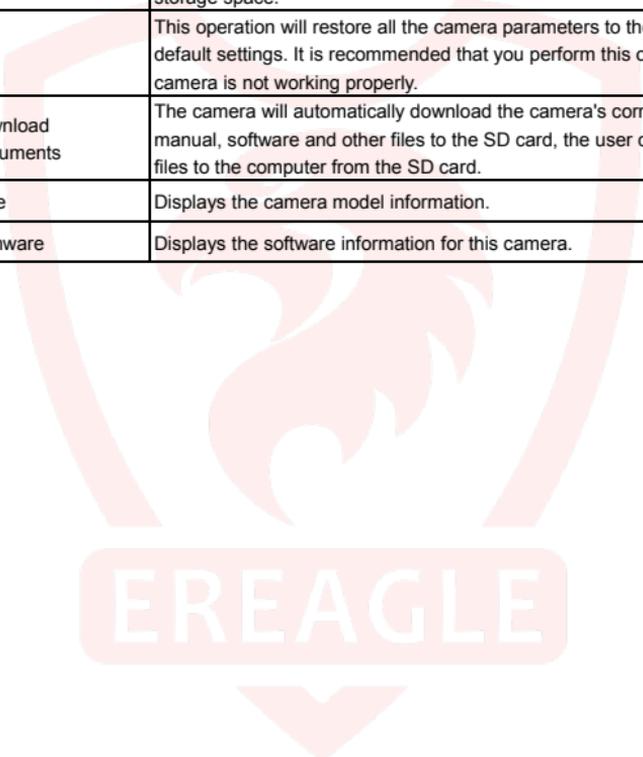
The following description is mainly for the use of menu parameters.

Main Items	Sub Items	Function and Application
MMS/SMP Setting	Select Network Operators	
	Send Mode	<p><b>【OFF】</b> : Turn off the remote communication function. In this mode all communication related functions are invalid.</p> <p><b>【MMS】</b> : Trigger to send the picture to the user via MMS. Can send to up to 3 mobile phone users and a mailbox user at the same time..</p> <p><b>【GPRS】</b> : Trigger to send pictures to users via email, support SSL encryption. Can send to up to 3 mailbox users at the same time.</p>
	MMS/SMP Parameter	It is used to Setting MMS/SMP related Parameter and receiver information.
	Send Number	The setting is used to limit the maximum number of messages sent per day, set to "0" means no limit, maximum limit of 255. By setting the limit can effectively control the cost of sending information. The limit does not affect the triggering of the photo, only limit the number of messages sent.
	Daily Report	The setting is turned on, the user will receive a text message at 9:00 AM every morning in time, in order to know the current state of the camera (including power, signal, version, TF card information, etc.).
Camera Set	Mode	<p>Select the camera mode to suit different shooting situations and application</p> <p><b>【Camera】</b> : Used only for scene that only take photos after triggering.</p> <p><b>【Video】</b> : Used only for scenes that require recording after triggering.</p> <p><b>【CAM+Video】</b> : Used for scenes both need to take pictures and video after triggering. In this model, it takes picture first, and then makes records.</p>
	Image Size	<p>You can select definition of the picture taken, the higher the definition, more storage space it occupies. The user can select the appropriate resolution according to the size of the SD/TF card</p> <p><b>【12M】</b>: 4608×2592 Pixel;                      <b>【8M】</b>: 3624×2448 Pixel;  <b>【5M】</b>: 2560×1920 Pixel;                      <b>【3M】</b>: 2048×1536 Pixel;  <b>【2M】</b>: 1920×1080 Pixel;                      <b>【1M】</b>: 1280×720 Pixel;</p>
	Video Size	<p>Select the video resolution, the higher definition will occupy more storage space.</p> <p><b>【1080P】</b>: 1920×1080 / 30fps;                      <b>【720P/60】</b>: 1280×720 / 60fps  <b>【720P/30】</b>: 1280×720 / 30fps;                      <b>【480P】</b>: 720×480 / 60fps</p>
	Shooting No.	<p>This parameter indicates that you can take multiple shots continually after the trigger, the maximum shooting number can be 5.</p> <p>1~5: The number of consecutive snapshots</p>
	Video Length	Set the length of the recording, can set from 1 to 120 seconds, the maximum length is 120 seconds.
	Max Shooting	Set the shooting limit per day, the maximum limit is 255 times, set to 0: means no limit.

<b>Audio</b>	Audio Record	This setting is used to turn on or off sound while recording
	Boot Sound	Set whether the start beep is turned on or off.
	Key Sound	Set whether to turn on or off the key beep.
<b>Parameter PIR</b>	PIR Mode	<p>Select PIR trigger mode, you can use Main PIR trigger or Side PIR + Main PIR trigger mode.</p> <p><b>【Main PIR Trigger】</b> : This is the most common trigger mode. In this mode, only the Main PIR can trigger the shooting and the Side PIR is disabled.</p> <p><b>[Side PIR + Main PIR trigger]</b>: This mode is mainly used to capture fast speed of the heat source objects. In this mode, the Side PIR trigger will pre-start the camera to speed up the boot speed; Then it captures immediately when Main PIR triggers.</p> <p><b>[OFF]</b>: turn off the PIR trigger, PIR will stop working, no longer detect.</p>
	Sensitivity	<p>Select a different PIR trigger sensitivity.</p> <p><b>【Auto】</b> : automatically adjusts the PIR sensitivity according to the change of ambient temperature. In this mode, it can adapt the different working environments, and it triggers in high accuracy, low error shooting.</p> <p><b>【High】</b> : for small temperature changes, small hot air flow environments, detect of small mobile objects or long-range detection. At the same time because of the high sensitivity, certain error shooting may happen.</p> <p><b>【Medium】</b> : Suitable for normal capture environment.</p> <p><b>【Low】</b> : Suitable for environment of closer detection distance and accurate detection target</p>
	Interval	<p>The time interval between the trigger and the next trigger. Set from 1 to 59 seconds, 1 to 60 minutes.</p> <p>This setting is mainly used to control the frequency of shooting, it will help reduce the same scene of repeated shooting.</p>
<b>Time and Date</b>	Time format	Set the time display format. 12 hours (eg AM 8:00) / 24 hours (eg 15:30)
	Date format	Set the date format. Available in three formats: 2008-12-23; 2008/12/23; 2008/23/12
	Setup time	Manual input date and time, year, month, day, minute and second can be adjusted.
	Time Zone Settings	<p>Set the time zone in different countries to correct the time; usually set time zone while setting the NTP.</p> <p>When you set the time manually, you do not need to enter a time zone.</p>

<b>Timer Set</b>	Timer	This option controls whether shooting is triggered on or off for the set time period.
	Time Lapse	Turns on or off interval timer. When this setting is turned on, the PIR will stop triggering. [Interval shooting time]: Take pictures by the time it set, not effect by PIR trigger effect. Setting range: 00: 00: 00 to 23:59:59
	Time 1	Time period 1 setting per day. For example: 1: 20: 20 ~ 7: 30: 20
	Time 2	Time period 2 settings per day.
	Time 3	Time period 3 settings per day.
	Repeat	Select the days per week according to the time set above to shoot for trigger shooting. multi-select
<b>Camera Name</b>		Used to set the camera name.
<b>Night vision</b>	Night vision mode	<b>【Auto】</b> : the camera will automatically recognize the day or night, automatically select Off / On fill light and switch the image mode color / black and white. <b>【Day】</b> : The camera has been kept in daytime color image mode, fill light is not enabled. <b>【Night】</b> : The camera has been in the night black and white image mode, fill light is enabled.
	Light Level	<b>【Standard】</b> : The IR LED current to 900mA. <b>【Plus】</b> : The IR LED current to 1300mA.
<b>User Interface Stamp</b>	Camera Name	Used to turn on / off whether name information is displayed on pictures and videos
	Shooting Date	Used to turn on / off whether time information is displayed on pictures and videos.
	Temperature	Used to turn on / off whether temperature information is displayed on pictures and videos
	Moon Phase	Used to turn on / off whether moon phase information is displayed on pictures and videos

<b>Password</b>		When Password is on, the camera needs to input a password to enter in test mode. After opening the password, the camera itself has a default password, in order to ensure security, it is recommended that users re-enter the new password and password confirmation.
<b>SD Card Format</b>		Used to format the SD card, the operation will automatically clear all the SD card images and video data.
<b>SD Card Cycle</b>		When this setting is on, new pictures or videos will automatically overwrite older pictures and videos when the SD card has insufficient storage space.
<b>Default</b>		This operation will restore all the camera parameters to the factory default settings. It is recommended that you perform this operation if the camera is not working properly.
<b>Version</b>	Download Documents	The camera will automatically download the camera's corresponding manual, software and other files to the SD card, the user can copy the files to the computer from the SD card.
	Type	Displays the camera model information.
	Firmware	Displays the software information for this camera.



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## 4. Advanced Operation

### 4.1. Mode Description

#### ● Test Mode

Enter this mode, the red light flashes, the camera automatically enter the real-time preview interface. After the system automatically detects with normal status the indicator lights will turn off.

After a few seconds, the PIR status can be observed by the color of the flashing indicator. Red indicates the side PIR is triggered and blue indicates the main PIR is triggered.

If the camera is password protected, you need to input password to enter the preview interface.

Following Operation can be performed in this mode:

**View video and images:** You can enter by pressing the button to view the screen the shooting screen detail.

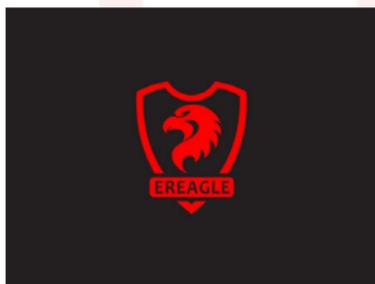
**Parameter settings:** Enter the menu button to set parameters.

**Laser positioning:** in this mode press the Left direction button to open the laser alignment, to check the installation position of the camera.

**Shooting test:** Press Right direction button to take images and video in test mode.

**Quick Setup:** Press UP and Down direction button to quickly switch camera mode and video mode.

**PIR detection hint:** Support PIR detection indication in this mode.



Boot screen



Real Time Screen

Shooting mode and definition are displayed at the upper left corner of the screen.

Upper right corner it shows the battery level; when the battery is less than 20%, the icon turns red.

The screen below displays the status of the SD card; Without SD card, the icon is displayed in red and will give alarm. The bottom right display total photos quantity, the taken photo quantity and the remaining video recording time.



In this mode the camera does not take photos for detected heat source object, only LED indicator hints.

## ● ON Mode

Enter this mode, the indicator light starts blinking. Then the system starts the internal self-test and enters a low-power consumption standby state after that, the LED turns off.

In this mode the camera will enter the normal working condition, starting PIR detecting.

When the side PIR is triggered, the camera starts pre-starting, not shooting photos; Only when the PIR is triggered, can the camera automatically and quickly shoot and store the images.



In order not to affect the detected heat source object, in this mode the camera would be no light hint, also no visible light and noise.

## 4.2. Set camera on PC

For multi camera parameter settings rapidly, users not only can set through its own menu on the camera, but also can set parameters via PC setting software.

PC-side software is stored in the camera menu, can be downloaded through the menu operation to the SD card. The latest updates software are available on the EREAGLE website.

### Setting steps:

1. First of all, click "Download documents" in the camera menu "version" option, the camera manual and PC-side software will be automatically stored in the SD / TF card. PC-side software contains "Set APP", respectively for camera parameters and communication parameter settings.
2. Use the USB cable to connect the camera to the PC, find the appropriate software in the SD card on the PC and open it, then install it.
3. Open the settings software, select the product model, select the storage location for the camera in the SD card root directory.
4. Set the corresponding camera parameters and communication parameters according to your need.
5. After setting, click to generate the configuration file, the parameter configuration file will be automatically stored in the camera SD card.
6. Disconnect the USB cable, restart the camera, the parameter settings complete.



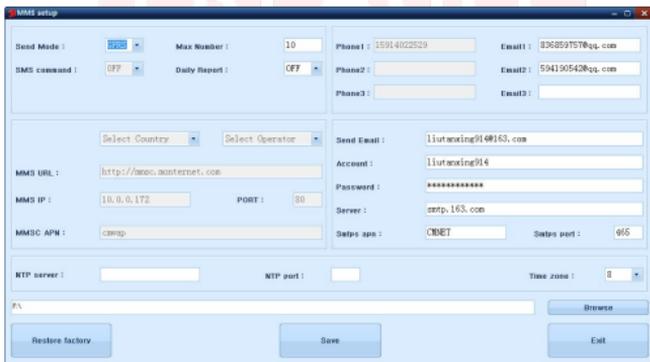
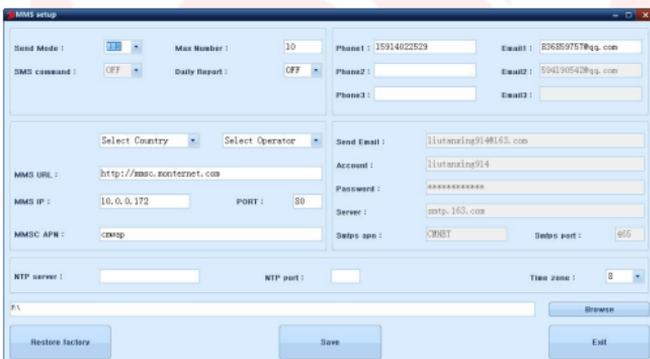
Language and model selection interface



The copy of Generated configuration files to the SD card is still valid.



General parameter setting interface



MMS setting interface

### 4.3. Menu operation method

Users can enter the menu and set parameters in the camera test mode; Alternatively, use PC-side software for parameter settings.

#### Setting method:

1. Press the "MENU" button to pop up the setup menu.
2. Press "UP" and "DOWN" to move the cursor to select the corresponding option or parameter. Press "MENU" or "RIGHT" key to enter the submenu or save the setting.
3. Press "LEFT" key to return to the previous menu. Press "VIEW" key to save and exit the menu.
4. Press "LEFT" and "RIGHT" to select the input position, press "UP" and "DOWN" to select the number to be input. Press "MENU" or "VIEW" to save and exit the menu.
5. Press the "LEFT" and "RIGHT" keys to move the cursor up and down while pressing the "UP" and "DOWN" keys to enter the current character. Press the "VIEW" key to save and exit the menu.



Button



Menu

### 4.4. Shooting mode selection

The camera supports 3 shooting modes, camera mode, video mode, camera + video mode.

**Image parameters:** User can choose the size of shooting pictures, continuous shooting number and other parameters.

**Video parameters:** User can set the recording video definition, maximally 1080P/30FPS. You can also set the video length.

**Shooting Limit:** User can control the shooting numbers per day by this setting, to reduce the power consumption.

Camera Set	Mode	Single selection	Camera	camera only	default
			Video	video only	
			Camera+Video	Camera first, video second	
	Image size	Single selection	12M	4608×2592	
			8M	3624×2448	default
			5M	2560×1920	
			3M	2048×1536	
			2M	1920×1080	
			1M	1280×720	
	Video Size	Single selection	1080P	1920×1080	default
			720P/60	1280×720	
			720P/30	1280×720	
			480P	720×480	
	Shooting No.	Number	1-5	number of photos taken continuously	1

Video Length	time	1~120s	Video recording length of time, unit: second	10s
Max Shooting	Number	0~255	Limit the number of daily shooting, 0 means no limit.	0

## 4.5. Audio settings

This function is used to for sound recording, turn on and off for button and power-on tone.

Audio	Audio Record	Single selection	ON	Open to record audio and video Sync	default
			OFF	OFF	
	Boot Sound	Single selection	ON	Open the boot sound	default
			OFF	OFF	
	Key Sound	Single selection	ON	Open the buttons hint sound	default
			OFF	OFF	

## 4.6. Trigger alarm settings

Our camera includes pre-sensor PIR and shooting PIR. When the heat source moves the object into the PIR pre-induction area, the camera immediately enters the start-up state; when the shooting PIR is triggered, the camera quickly shoot. This method can be more accurately capture the target object.

Users can adjust the trigger interval and induction sensitivity according to the frequency of animal activity, this can prevent repeated capture and get the more accurate data.

Alarm trigger	PIR Mode	Single selection	Main PIR	Only open Main PIR	
			Main&Side PIR	Open Main and side PIR	default
			OFF	All OFF	
	Sensitivity	Single selection	Auto	According to the environmental temperature automatic adjustment	default
	Interval	Number	Low	lowest	
			Normal	normal	
			High	highest	
0sec-59min			the interval of next trigger after the previous trigger.	One min	

## 4.7. Time and date

Set time and date, to be local time synchronization, in order to accurately capture the target activity time. So before use the camera, please set the time and date according to local accurate time and date.

**Manual setting:** The user can directly set the date and time in the menu. You can also set the date and time display format.

**Auto Acquisition Time & Date:** The camera automatically obtains the time and date via the Internet after each start. This function needs to set NTP parameters.

Time and Date	Time Format	Single selection	12hours	display: 6:42:54pm	
			24hours	display: 18:42:54	default
	Date Format	Single selection	YYYY-MM-DD	2014-11-6	
			MM/DD/YYYY	11/6/2014	default
			DD/MM/YYYY	6/11/2014	
	Setup Time	date and time	2014-11-6 18:42:54	If you need to manually set the date and time, please set Auto off.	



Automatic acquisition time and date is only for mms camera ERE-E1S

The date and time set manually will be lost when the battery taken out for 20 seconds.

## 4.8. Time lapse

This feature allows the camera automatically record images or videos at specified time intervals for a specified number of days and time periods. You can set three time periods per day and weekly repeat.

**Timed Trigger Shooting:** Users can set the time period to work every day after the timer shooting is started. Up to three time slots can be set per day, and week repeat can be selected. This setting will trigger and shooting only within the set time period.

**Automatic timer shooting:** In addition to setting the time period, you also need to open the shooting interval and set the interval time. In this setting, the camera will automatically take the image according to the shooting interval

Timer	timer	Single selection	ON	Start timer function	
			OFF	Close timer function	default
	Time Lapse	Time	0-60min	If the timer lapse is 0, it is PIR induction mode	
	Timer1	Time interval	00:00:00	start time	
			00:00:00	end time	
	Timer2	Time interval	00:00:00	start time	
			00:00:00	end time	
	Timer3	Time interval	00:00:00	start time	
			00:00:00	end time	
	Repeat	multiple selection	Monday	The selected effect	√
			Tuesday		√
		Wednesday	√		
		Thursday	√		
		Friday	√		
		Saturday	√		
		Sunday	√		



When time lapse is ON, The interval can't be set to "0" and PIR trigger is invalid.

## 4.9. Camera Name

This parameter is used to set the name of the camera, in order to accurately get the camera information. The name will be stamped on the photo and video.

Setting the camera name can help to mark the camera installation position.

Camera Name	character	24 characters	It is made up of Numbers, letters and characters.
-------------	-----------	---------------	---

## 4.10. Night lighting

This setting helps to improve the effect of insufficient light illumination change at sunrise and sunset. Correct setting of this parameter can improve the shooting effect. Here you can set the day/night automatic switching, night mode or day mode. In night mode, you can also set the light level to control the photo brightness.

We provide three different lighting source, the user can choose according to your need

**940nm invisible infrared light source:** high power invisible light source, ultra-low red exposure, night vision distance can reach up to 30 meters.

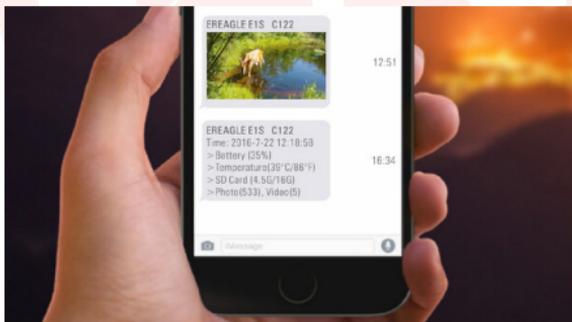
**850nm invisible infrared light source:** high power invisible light source, visible red exposure, night vision distance more than 40 meters.

**650nm visible white light source:** high-power white light source, visible white light, night vision distance more than 30 meters.

Night Vision	Night Vision Mode	Single selection	Auto	Auto detect day and night mode	Default
			Day	Always on day mode	
			Night	Always on night mode	
	Light Level	Single selection	Standard	The IR LED current to 900mA.	Default
Plus			The IR LED current to 1300mA.		

## 4.11. Telecommunications

When the PIR trigger shooting, the camera will automatically send SMS(short messages), MMS or e-mail to the specified recipient. Our camera supports 3 different transmission methods.



**SMS:** by sending text messages to the phone to notify the user.

**MMS:** by sending pictures to the phone to notify the user. You need to set the MMS parameters and receiver information correctly.

**GPRS:** by sending pictures to the mailbox to notify the user. You need to set the SMTP parameters and recipient information correctly.

**Off:** Close all communication related functions.

GSM Setting	Select Network Operators				
	Send Mode	single selection	MMS	Send by MMS	
			SMTP	Send by Email	
	Send Number	Digital	OFF	Turn off Communication	Default
			0~255	Limit the maximum number of messages sent per day. Bit 0 is not restricted.	10
	Daily Report	single selection	ON	Send 1 daily report per day	
			OFF	Don't send	Default
	MMS Parameter	It is used to Setting MMS related Parameter and receiver information.			
	SMTPS Parameter	It is used to Setting SMTP related Parameter and receiver information.			
	Remote control	Single selection	ON	support	
OFF			Not support	Default	

**Send Number:** This function is mainly used to limit the number of messages sent by the camera every day, which helps the user to control the cost. When the function is not set to 0, the interval is 10 minutes after each message is sent, and the message can not be sent again after the trigger shooting. To prevent duplication of information and waste the cost.

**Daily Report:** The camera send the current data report of the camera to the specified user as a text message every day. Including: power information, signal strength, temperature, storage capacity information, the number of photos and videos.

**MMS parameter:** It is used to Setting MMS related Parameter and receiver information.

**SMTP parameter:** It is used to Setting SMTP related Parameter and receiver information. Support SSL (Security socket Layer)

**Remote control:** not supported.



You must insert a valid SIM card when using the communication function.  
When communication function is open, you must use the PC-side MMS Set software correctly set the relevant parameters in order to ensure camera communication function works .

#### 4.12. User Interface Stamp

Open the User Interface Stamp, the camera ID, Shooting Date, Temperature and Moon phase will be displayed on the corresponding pictures taken.

User Interface Stamp	Single selection	ON	Stamp	Default
		OFF	No stamp	

#### 4.13. Password

Password protection is to increase security of camera parameters. You should input the correct password after you open the password protection function.

Password	Password	Single selection	ON	Open password protection	
			OFF	Close password protection	Default
	Password setup	digit	1111	Make up of four numbers from 0 to 9	1111

#### 4.14. TF Card Format

Format TF card.



This operation will lose the TF card, be careful.

## 4.15. TF Card Cycle

After starting the TF Card Cycle, when TF card memory is full, the new recorded file will automatically overwrite the old file.

## 4.16. Default Setup

For error of the parameter settings, the device will restore all settings to factory default settings.



This operation will make the camera automatically shut down, need to restart the camera to restore the factory Settings to take effect.

## 4.17. Software Version Information

Displays the camera's current firmware version number.

Camera data download, including instructions, PC-side software.



## 4.18. View, Delete the image and video

1. Press "VIEW" key to enter into view mode, the image and video thumbnails will be displayed on the screen.



2. Choose "UP", "DOWN" and "LEFT" "RIGHT" keys, then press "MENU" to display the selected picture or video in full screen.
3. In full screen, press the "LEFT" and "RIGHT" buttons to switch between the previous or next picture.
4. Press the "UP" key to return to the thumbnail display when full screen is displayed.
5. In full screen, press the "VIEW" button to display the deletion hunt. Press the "LEFT" and "RIGHT" key

to cancel delete or delete all options. Press the "MENU" key to confirm the operation.

6. Press the "MENU" button to enlarge the picture. You can press "UP", "DOWN", "LEFT" and "RIGHT" keys to zoom in to view the picture details.
7. For videos, press "LEFT" and "RIGHT" key to control the slow-forward and fast-forward speed; Press "DOWN" key to enter the reverse playback during playback, press "LEFT" and "RIGHT" key to control the slow retreat and rewind speed, press the "UP" key to return to the thumbnail display.

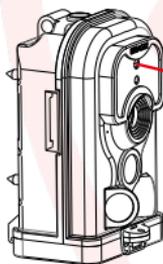
#### 4.19. Auto power off

When the user enters the test mode, the system will automatically power off without any operation within 120 S.

When the battery power is low, the camera will automatically power off.

#### 4.20. Laser positioning

When the user enters the test mode, press the "LEFT" button to turn on the laser light, then press the "LEFT" button to close.



#### 4.21. Quick setting Photo and video

When the user enters the test mode, press the "DOWN" button to switch to the camera mode, press the "UP" button to switch to the video mode; press the "RIGHT" button to shoot.

#### 4.22. Low power alert

If the camera battery power is less than 20%, when you enter the test interface, it will remind a low power alert, the speaker will give alarm, battery icon turns red.

When the battery voltage is less than 4.2 V, the camera will automatically turn off.

#### 4.23. Software version updates

User can view the current device model, code, and software version information in the version information in the menu.

If user wants to upgrade to the latest firmware version, you need to download the latest version of the corresponding software upgrade package from our official website. Then extract the firmware. bin file in the folder to the SD/TF card, insert the SD/TF card into the camera, and then switch to test mode. The camera will automatically enter the upgrade program, turn off the camera and remove the SD/TF card after finishing, and then change the SD/TF card without software upgrade package.



## 5. Other operation

### 5.1. Connection of external power

There is an external power input interface at the bottom of the camera, you can use the external power supply to charge. For example, solar battery, DC power supply, storage batteries and so on.

External power supply must be with DC 6V 2A

The bottom of the waterproof cover will be opened for external power supply, so the camera waterproof grade will be reduced. The camera can't be inverted installation, not even put in the water at this time.



Polarity of power interface

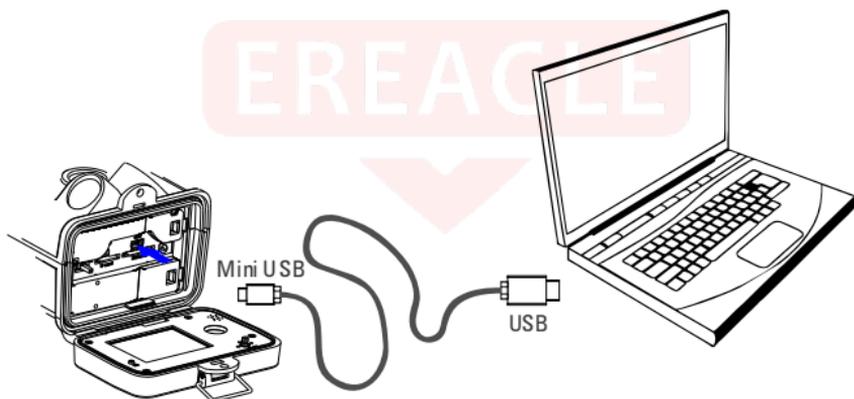


When purchasing power supply, please note that the rated voltage, current, power connector and polarity.

### 5.2 USB cable use

Connect the USB cable to the USB port on the PC, the PC will automatically recognize and install the camera driver. When the recognition is complete, the mobile disk will appear in the computer. At this point the user can copy file from the mobile disk and delete the file.

USB cable can be directly used for PC-side software to set the camera parameters.



### 5.3. TV Video Cable Use

The video cable is used to connect the camera to a TV or monitor, making it easy to view pictures or videos on a larger screen.

Plug the video RCA cable into the AV input of the TV or monitor, and connect the other end to the camera AV connector.

Switch the TV or monitor signal input to AV mode and turn on the camera to display live video or view pictures and videos on your TV.



Some cameras may need to be set to the TV mode to display the image.

Since the AV output quality is limited to 752 \* 576 pixels, play the videos and pictures It will be lower than the actual resolution while playing the video and photos. So please don't be mistaken for a lack of definition of the camera.



## 5.4. TF card capacity data sheet

Data sheet below will show you the capacity of different size of SD card. Then you will know which size of SD card fit your need.

Resolution	Pixel	File size	TF Card	Capacity	Picture amount
1M	1280×720	176K	4G	3.725G	21100
			8G	7.45G	42350
			16G	14.9G	84600
			32G	29.8G	169300
2M	1920×1080	384K	4G	3.725G	9700
			8G	7.45G	19400
			16G	14.9G	38800
			32G	29.8G	77600
3M	2048×1536	512K	4G	3.725G	7270
			8G	7.45G	14500
			16G	14.9G	29100
			32G	29.8G	58200
5M	2560×1920	896K	4G	3.725G	4150
			8G	7.45G	8300
			16G	14.9G	16600
			32G	29.8G	33200
8M	3624×2448	1408K	4G	3.725G	2640
			8G	7.45G	5290
			16G	14.9G	10580
			32G	29.8G	21160
12M	4608×2592	2176K	4G	3.725G	1710
			8G	7.45G	3420
			16G	14.9G	6840
			32G	29.8G	13690

Photo storage sheet

Resolution	Pixel	File size /Sec	TF Card	Capacity	Video length
480P	720×480 60FPS	1024K	4G	3.725G	60分 36秒
			8G	7.45G	121分 12秒
			16G	14.9G	242分 20秒
			32G	29.8G	485分 2秒
720P	1280×720 30FPS	1024K	4G	3.725G	60分 36秒
			8G	7.45G	121分 12秒
			16G	14.9G	242分 20秒
			32G	29.8G	485分 2秒
720P60	1280×720 60FPS	2048K	4G	3.725G	30分 18秒
			8G	7.45G	60分 36秒
			16G	14.9G	121分 13秒
			32G	29.8G	242分 30秒
1080P	1920×1080 30FPS	2048K	4G	3.725G	30分 18秒
			8G	7.45G	60分 36秒
			16G	14.9G	121分 13秒
			32G	29.8G	242分 30秒

Video storage sheet

## 6. Warranty Information

If the camera malfunction, please see the following guide operation, if the malfunction can't be solved, please contact our local distributor.

General malfunction	Self-test and solution
camera can't be open	Check whether the batteries are installed correctly, the external power whether open circuit or not, the SD card capacity size meets requirement, confirm the switch is not on OFF position.
Always black and white image	Check the camera setting is correct with the corresponding parameter's setting
Button doesn't work	Disconnect the power and restart the camera
The camera auto power off in test mode	Check whether the power supply is normal, or long time no operation on buttons
Abnormal display shows	Check whether screen surface is clean, if under the condition of low and high temperature, display screen shows may seem a bit dark, It can be automatically recover in normal temperature.
Image out of focus	Whether there is a big shake when shooting camera, you can fix the camera and see the effect.
SD card can not be stored	Check whether the SD card is write protected or damaged
Image not displayed when TV cable connect	Check whether the TV cable connect is correct or not, and check the TV cable is damage or not.
Password lost	Press "View" for 3 seconds and enter to set new password,then re-burning software.
Can not receive SMS, MMS, or mail	Check whether the parameters set by the PC software are correct.

The logo for EREAGLE features the brand name in a bold, white, sans-serif font, centered within a light pink, rounded rectangular shape. This shape is superimposed on a larger, faint pink eagle silhouette that has its wings spread, with the eagle's head pointing downwards.

## 7. Appendix Technical Specification

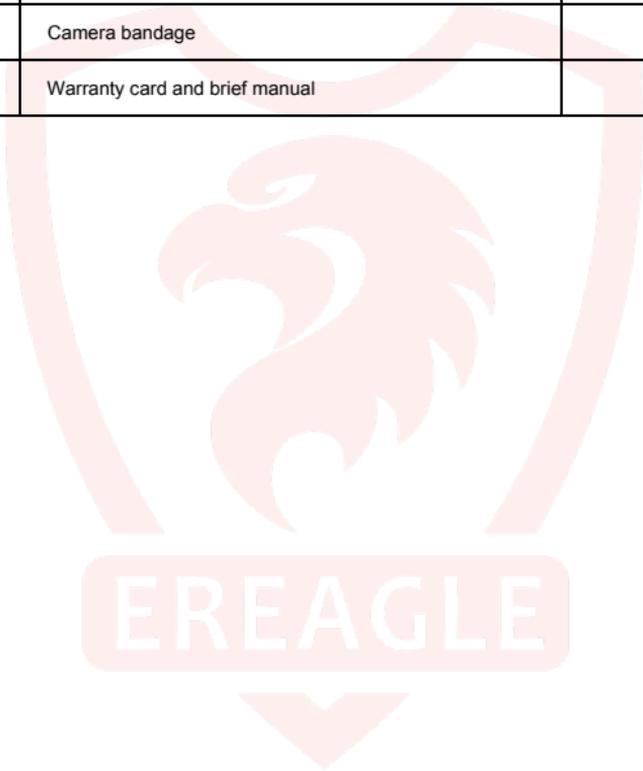
Model	ERE-E1B	ERE-E1C	ERE-E1S
<b>Photo and video</b>			
Image Sensor:	5Mega pixel 1/3 "HD color CMOS image sensor		
Sensitivity:	0.005 Lux / F1.2 / 30IRE (LED off)		
Effective pixels:	2560×1920 / 4915.2K		
Photo Definition:	12M/8M/5M/3M/2M/1M		
Shooting No.:	4608×2592/3624X2448/2560×1920/2048×1536/ 1920×1080/1280×720		
Shooting No.:	1-5		
Video Definition:	1920×1080/30 fps; 1280×720/60 fps; 1280×720/30 fps; 720×480/30 fps		
Video length:	1-120s		
Lens:	7.45mm HD Fixed Lens (H FOV=50°; F=3.0)		
Trigger Time:	< 0.8 Sec		
Photo+Video:	First photo, then video		
Max-Shooting (Per Day) :	Support, 0-255, 0 means no limit.		
View photo and video:	Support thumbnail, 16 times enlargement, support video playing, support advanceX2/X4, retreat X2/X4		
Display Screen:	2.0 "LCD Screen; definition: 960 × 480; 16.7M color		
<b>Audio</b>			
Microphone:	60dB High Sensitivity Sound Collection		
Loudspeaker:	0.5W (8Ω) Hi-Fi Loudspeaker		
Audio record:	ON/OFF		
Boot Sound:	ON/OFF		
Key Sound:	ON/OFF		
<b>PIR</b>			
PIR Sensing Angle:	Main PIR: 50°, 8 zone, each zone 10° Side PIR: Left and right light beams form an angle of 140°, left and right of the five zone, each zone 10°		
PIR Sensor Distance:	20M (at 25°C)		
PIR Mode:	Main PIR / Main PIR & Side PIR / OFF		
PIR Sensitivity:	Auto / low / normal / high		
Trigger Interval:	0-59sec, 1-59min Programmable		
<b>GSM; Support SSL(Security Socket Layer)</b>			
Frequency band:	No		850/900/1800/1900MHz
GSM Mode:	No		MMS/GPRS/OFF
MMS Photo Size:	No		960×540
Send Number:	No		0 to 255, 0: No limit
Daily Report:	No		ON/OFF
Remote Control:		No	
<b>Night Vision</b>			
Light source:	850nm or 940nm 2 / 4ea, IR H-LED	650nm, 2ea white LED	850nm or 940nm 2 / 4ea, IR H-LED
Night Vision Distance:	30M	30M	30M
Day/Night Mode:	Auto / Day / Night		
Light Level:	Standard(900mA) / Plus(1300mA)		
<b>User Interface Stamp:</b>	Shooting date, Moon phase, Camera ID and Temperature are optional: ON / OFF		
<b>Security Setting:</b>	Support 4 numbers, auto lock the camera if wrongly input the password for 6 times. Padlock installation. Anti-theft lock hole		
<b>Timer:</b>	Can set three period of time per day and weekly repetitions. Support automatic interval shooting and timer triggered shooting		

Storage, Power Supply and Power Consumption	
Memory:	4G-64G, TF Card, Class 10
SD Card Cycle Save:	ON/OFF
Power supply:	4A×AA/8A×AA/12×AA alkaline batteries or rechargeable batteries (1.2~3.7V)
Stand-by Time:	5~8 months (4A×AA ~ 12×AA)
External Power Input:	DC 6V / 2A
Auto Power OFF:	Auto power off in 120S while no keypad controlling
Low Power Alert:	Warning tone while less than 20% of the power, auto power off while voltage less than 4.2V
Standby Current:	400 uA (0.0004 A)
Power Current:	250 mA (550mA with LED)
Other	
Operation Control:	5 + 1 joystick button, support PC-side software quickly set
Interface:	DC input, SD/TF card, USB, CVBS, mode switch
Mounting:	Bandage, tripod nail
Operating Temperature and Humidity:	-30°C~+70°C / 30% ~ 90%RH
Storage Temperature and Humidity:	-40°C~+85°C / 0% ~ 90%RH
Waterproof Grade:	IP68(Dust proof /Submerging test)
Dimension:	145 x 91 x 78.5mm
Net Wight:	320g
Gross Weight:	520g
Certificate:	FCC, CE

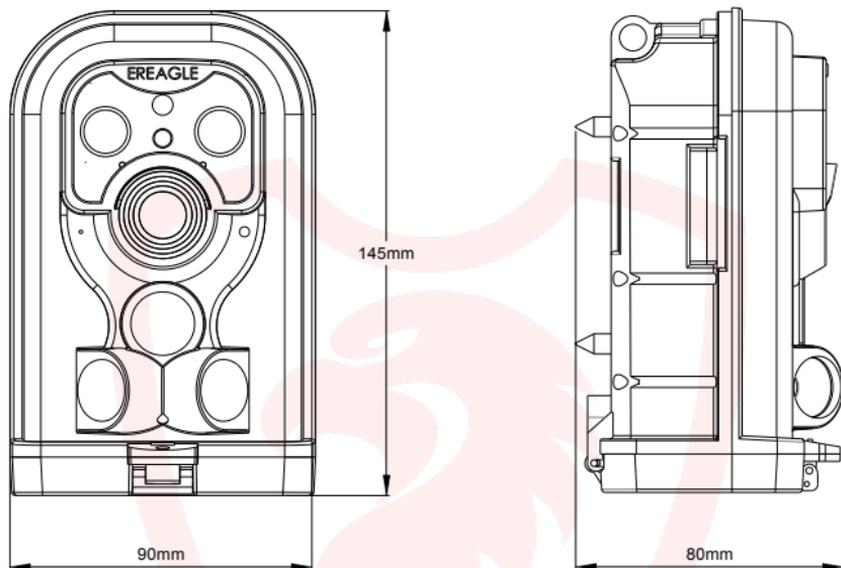
EREAGLE

## 8. Packing list

item	Accessories	Quantity
1	Camera unit	1
2	USB cable	1
3	Camera bandage	1
4	Warranty card and brief manual	1



## 9. Dimension



To protect the environment of earth, EREAGLE pay more attention to environment in the whole production process, and take various measures to provide customers with more environmentally and friendly product.

Item name	Toxic and harmful substance or elements					
	Lead (pb)	Mercury (Hg)	Cadmium (Cd)	Hexavalent Chromium (Cr6+)	polybrominated biphenyls (PBB)	polybrominated diphenyl ethers (PBDE)
Diode	X	o	o	o	o	o
Resistance	X	o	o	o	o	o
Rigid circuit board	X	o	o	o	o	o
LED	o	o	o	o	o	o
Integrated Circuit (IC)	o	o	o	o	o	o
Dynamic Random access memory (DRAM)	o	o	o	o	o	o
Capacitance	o	o	o	o	o	o
Filter capacitor	o	o	o	o	o	o
Filter	o	o	o	o	o	o
Socket	X	o	o	o	o	o
Light	o	X	o	o	o	o
Battery	o	o	o	o	o	o
Screw	o	o	o	o	o	o
Metal shaft	o	o	o	o	o	o
Cable	o	o	o	o	o	o
Flexible printed circuit	o	o	o	o	o	o
microphone	o	o	o	o	o	o
inductance	X	o	o	o	o	o
camera lens	o	o	o	o	o	o
label	o	o	o	o	o	o
carton	o	o	o	o	o	o
user manual	o	o	o	o	o	o
bubble pack	o	o	o	o	o	o
filer	o	o	o	o	o	o
rubber	o	o	o	o	o	o
keypad	o	o	o	o	o	o
electric wire	o	o	o	o	o	o
case	o	o	o	o	o	o
spring	o	o	o	o	o	o
crystal oscillator	o	o	o	o	o	o
IC amplifier	o	o	o	o	o	o
switch	o	o	o	o	o	o
CD	o	o	o	o	o	o

O:indicates that the content of the toxic and hazardous substances in all homogeneous materials of this part is below the limit specified by 11363-2003 SJ/T

X: indicates that the toxic and hazardous substances in at least one of the components of a homogeneous material exceeds the limited requirements specified by 11363-2003 SJ/T

Note: For the components of the exceed harmful substance, it can't be replaced as it cannot be achieved due to the global development level, but EREAGLE are making efforts for the development of alternative technologies.



(Applicable in the European Union and other European countries with separate collection system)

This marking shown on the product or its literature, indicates that it should not be disposed with other household wastes at the end of its working life.  
To prevent harm to the environment or human health from uncontrolled waste disposal, please separate and recycle it responsibly to promote the sustainable reuse of material resources.  
Household users should contact either the retailer where they purchased this product, or their local government office, for details on how they can take this item for environmentally safe recycling.  
Business users should contact their supplier and check the terms and conditions of the purchase contract.  
This product should not be mixed with other commercial wastes for disposal.

**Correct Disposal of This Product.  
(Waste Electrical & Electronic Equipment)**

other household wastes at the end of its working life.  
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Household users should contact either the retailer where they purchased this product, or their local government office, for details on how they can take this item for environmentally safe recycling.  
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