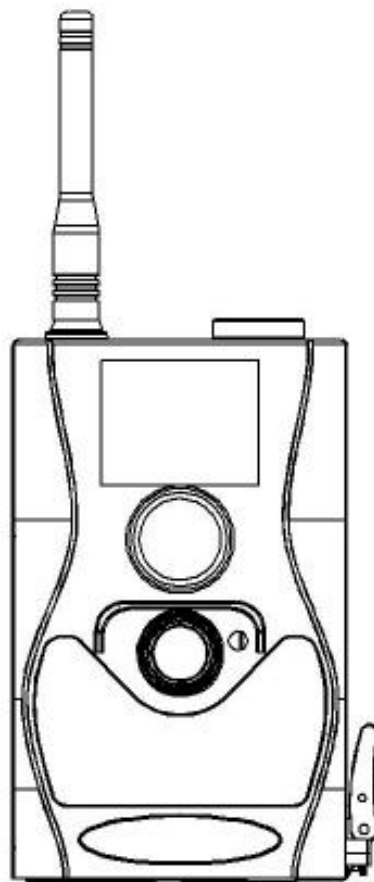


*Infrared Mobile Digital Scouting Camera*

***User Manual***

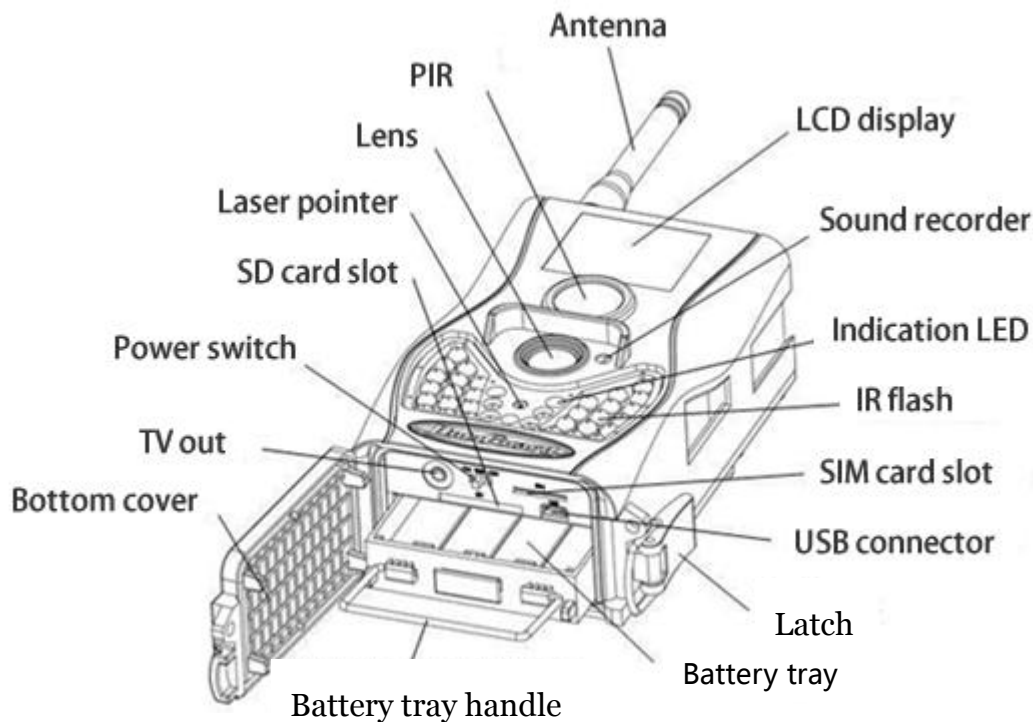
***BG584***



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# 1. Getting Started



BG584 is a digital infrared surveillance camera with 4G communication functionality. It has a high sensitive Passive Infrared (PIR) motion sensor which can be triggered by any human or animal movement. The camera takes color pictures and videos at daylight and uses built-in infrared LEDs to help to take clear black&white photos or videos at night.

There is a 1.44" color LCD display screen on the camera, and a laser pointer is used to help target the photo area of the camera.

## **2.Camera Operations**

### **2.1 Batteries/ Power Supply**

The camera uses four or eight AA batteries. High-density, high-performance alkaline, rechargeable alkaline, or NiMH batteries are recommended. When batteries are low, the indication LED will blink twice and the camera will automatically turn off, all batteries must be 1.5V.

A DC 6-Volt, 2 Amp external power supply adapter can also be used to power the camera (not included).

### **2.2 SD Card Information**

To take full advantage of the latest technologies, we recommend Class 10 SD cards or higher SD cards, which have fast transfer speeds and long durability for extensive shooting in the most extreme outdoor conditions. Secure Digital High Capacity (SDHC) PRO Cards work with SDHC compatible devices only. Please check your product is compatible with SDHC cards.

**• Insert the SD card into the camera before turning on the camera**

This camera supports up to a 32GB capacity SD

card and has no built-in internal memory. The camera will not function without the SD card properly inserted into the camera.

- **Make sure the SD card is unlocked before inserting the SD card into the camera**

The camera will power off with a locked SD card inserted.

- **If you experience any problems with an inserted SD card**

Try reformatting the SD card by using the camera's main settings option.

## **2.3 SIM Card Information**

- **Insert the SIM card into the camera before turning on the camera**

The camera SIM slot is sized for a standard SIM card. If you have a nano or micro size SIM card, please using a SIM card adapter (included with most of our cameras) will require to connect your camera to the cellular network.

Note: The camera will still function without a SIM card. The SIM card is only needed for wireless/cellular capabilities.

## 2.4 Camera Modes

The different modes accessed by sliding the power switch to the different modes marked on the camera.

### ●OFF Mode

Turn off the camera. The camera will slightly turn to the OFF mode. We recommend removing all the batteries if you do not use the camera for a long time.

### ●SETUP Mode [TEST Mode]

Customize the camera settings, or playback pictures and videos the camera has taken on the LCD display.

### ●ON Mode [Hunting Mode]

The camera will take pictures or video when motion is detected and/or at specific time intervals, according to the programmed settings. After switching the camera to the ON mode, the motion indicator LED (red) will blink for around 10 seconds and turn off. This preset time allows you to adjust the camera mode if it's needed before the camera becomes active.

## 2.5 Trigger Modes

There are 3 different trigger modes for the camera: PIR Trigger/Sensitivity, Time Lapse, and a

combined PIR/Time Lapse mode. These modes are activated by three different menu options (PIR Trigger/Sensitivity, PIR Interval, and Time Lapse).

**PIR Trigger/Sensitivity:** The camera will activate when motion is detected. If the PIR Trigger/Sensitivity option is set to OFF, the camera will not respond to any movement within the camera's range.

**Time Lapse:** The camera will activate at the set time interval regardless of motion detection. If the Time Lapse option set to OFF, this trigger function will disable.

**Combined PIR/Time Lapse:** For the combination of both PIR and Lapse triggering, the following settings must set correctly:

- PIR Trigger/Sensitivity must **NOT** set to OFF
- The Time Lapse interval must set to a non-zero value.

The camera will capture pictures or video when motion is detected and at the pre-set time, regardless of motion detection.

**Additional PIR settings to note:**

### **PIR Interval**

This setting indicates how long the PIR sensor will be disabled after each camera triggering. During this interval time, the camera will not react to any





## **2.8 Sending Images**

Images can be sent directly to your wireless device or email, based on the Send Mode settings. Email and wireless device information need to be set up while the camera is in TEST/SETUP Mode in the Menu options. Images can only be sent when a correctly setup SIM card is recognized, installed and the wireless signal strength is adequate.

Send Mode settings will dictate how often you want pictures sent to you, and the options “Daily Report” and “Instant” will only be active when the camera is in the ON mode.

## **2.9 Laser Pointer**

The laser light pointer beam can be activated to assist in the camera’s positioning by pressing \* on the remote control.

### **NOTE:**

Do not point the laser at people. There is a danger of physical harm if shined into the eyes.

## **2.10 Password Setup**

For encryption settings, enter your four-digit pre-set password to enter the camera. This function helps protect your privacy.

**This function is off by default. To use this**

## **function:**

**2.10.1** Press ▲/▼ to adjust the number from 0~9, and ◀/▶ to change the password.

**2.10.2** The same password must be entered twice in order to take effect.

**2.10.3** After the password is set up, you will be required to enter the same password on the next boot to enter the camera.

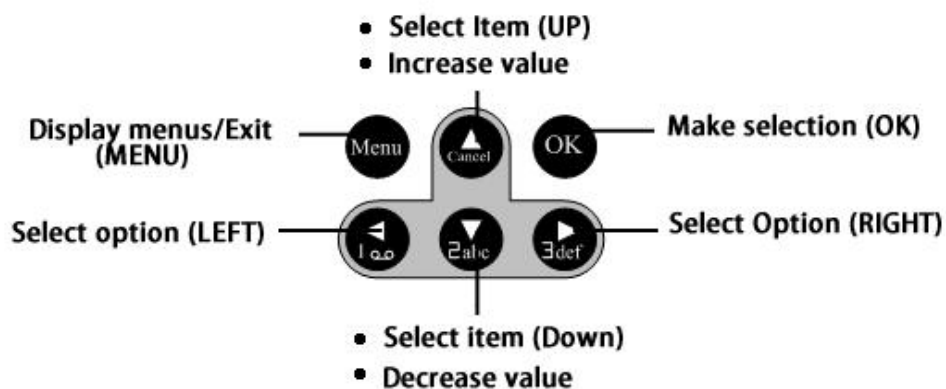
**If you forgot your password, please contact us for assistance**

## 3. Camera Setup Settings and Display

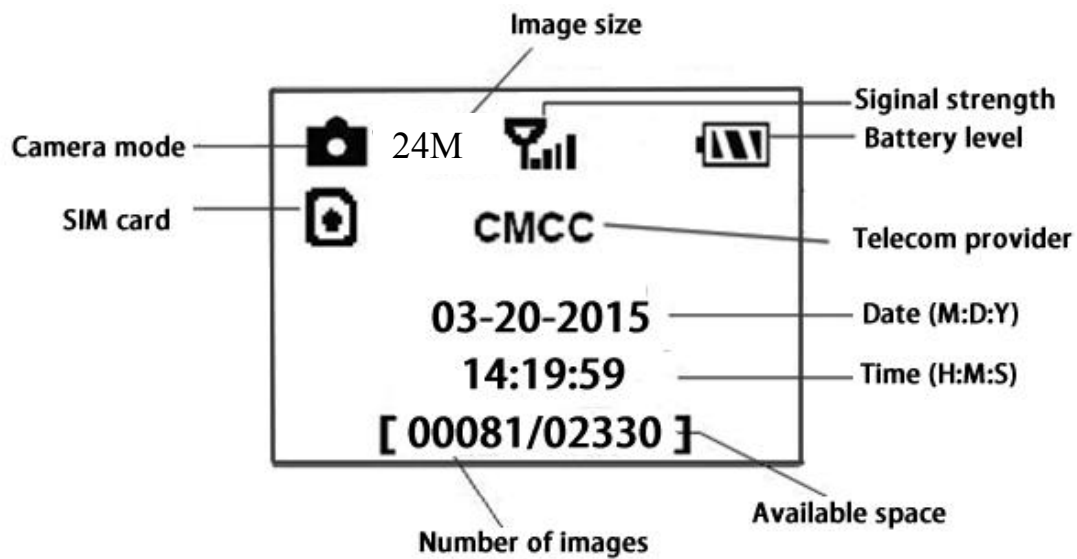
The remote control is required for the initial setup and changing any camera settings. When powering on the camera, please allow 10-20 seconds for the camera to recognize the remote. An icon on the LCD screen will appear once the camera has recognized the remote. The maximum detectable range for the remote is 30 feet. The remote will not work correctly without the antenna attached to the camera.

### 3.1 Settings Interface & Display

To update the camera settings, slide the power switch to the TEST/SETUP position.



When the camera is in TEST/SETUP Mode, the screen will activate and display the following:



## 3.2 Mobile Communication

The camera can receive and respond to commands sent via SMS, MMS, GRPS, Molnus, and the Apple or Android application, as long as the camera is correctly connecting to a wireless carrier.

Supported Wireless Carrier Bands:

- ✓ **GSM: B3/B8**
- ✓ **WCDMA: B1/B8**
- ✓ **LTE FDD: B1/B3/B7/B8/B20/B28A**

To enable the SMS functionality, use the mobile application, by completing the following steps:

- Place the camera in Test/Setup Mode and go into the menu Setup options
- Set SMS control to ON

For MMS/GPRS/Molnus functionality, the following menu Setup options will need to be set:

- “Send to” Camera Options
  - MMS network settings (varies depending on carrier)
  - GPRS network settings (varies depending on carrier)
  - Molnus (varies depending on carrier)

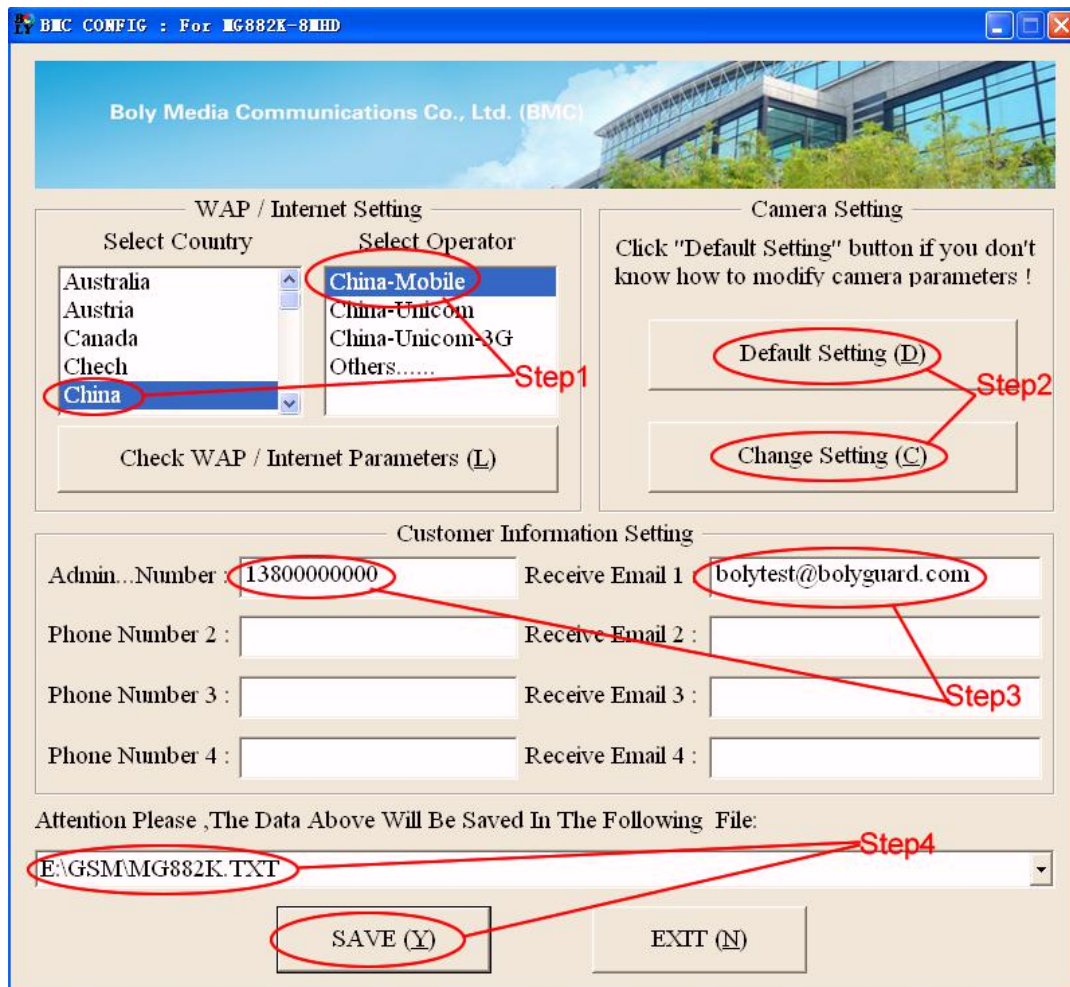
The settings for these options vary between service providers. You will need to contact your SIM service provider for specifics on these settings.

### 3.3 Camera Setup Software

For easier camera setup, download the camera setup application (BMC\_config.zip), follow the instructions from our website ([bolymedia.com](http://bolymedia.com))

Select the camera you are going to use through the drop-down window.





Step1: Select your country and carriers according to your SIM card.

Step2: To make any changes to settings, click “Change Setting”. For first time users, we suggest you use default settings.

Step3: Input your receiving phone number in “administrator number” and receiving e-mail address in “Receive Email 1.”

Step4: Save the txt file in the root directory of the GSM folder of your SD card after all settings are changed, the file will automatically disappear once the camera is turned on.

## 3.4 Cloud Service - Molnus

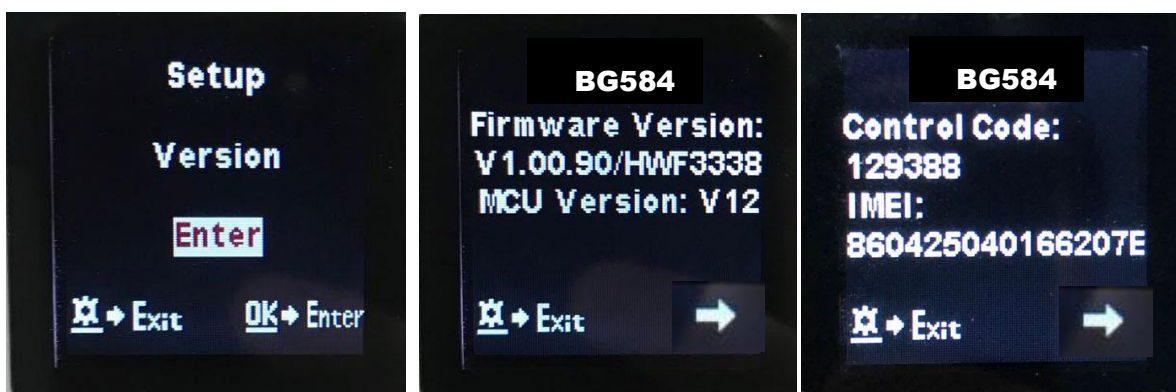
Molnus is a cloud service that allows users to access to transfer and store images taken through the cameras with the use of compatible devices or a computer.

To get started, you need to supply the camera with batteries and a SIM-card that has internet access.

You also need to have the phone number and the APN name to the SIM-card you will use for the camera.

**The APN name** is provided by the operator of the SIM card. Each operator has its own APN name. If not present in any documents sent along with the SIM-card, then please check the operator ' s homepage for APN settings.

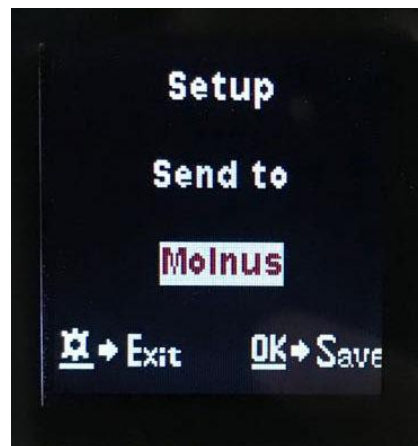
**IMEI, Control Code** can be found on your camera. You will need a SIM-card that has internet access. Start the camera in SETUP mode, look for the operator's name in camera display, then check the Version.



**Step1** Register your Molnus account. (In Molnus)

**Step2** Log in to your Molnus account and go to the My Cameras page. (In Molnus)

**Step3** Slide the functions switch to SETUP position on your camera, and make sure Send mode is “Molnus”. (On camera)



**Step4** Press the Register camera button to register your camera. (In Molnus)

**Step5** Slide the functions switch to ON position on your camera. Quickly place the device with the camera facing an area with no movement, for example against the wall. (On camera)

**Step6** Press the Register button in Molnus and wait for about 5 minutes. (In Molnus)

The registration should now be done, and the camera should now be able to upload images to Molnus.

Test the function by making a movement in front of the camera. Within a few seconds to a minute, the images will show up in the gallery in Molnus.

If you would like to use Molnus on your smartphone,



please download the app on Google Play or Apple's App Store. For more details please refer to the website:<https://www.molnus.com/>

## 3.5 Mobile Applications

When the camera is switched to the ON mode, you can change some of the basic camera settings through the mobile application.

The mobile application is currently supported by Android and Apple devices. Charges or fees may be incurred by your cellular provider when sending text messages to the camera.



### Android

You can download the application directly from our website:

<http://www.bolymedia.com/index/Support>

### Apple

Search “BGTools” in the official Apple Apps store.

## 3.6 SMS Command-List

We can change camera parameters or get some photos via SMS.

No.	Function	SMS Command
1	Set MMS Parameters	#m# <a href="http://mmsc.cingular.com">http://mmsc.cingular.com</a> #66.209.11.32#8080#wap.cingular#account#password# (The example parameters are for AT&T carriers)
2	Set GPRS Parameters	#s#bmc123@163.com#bmc123#25#cmnet#smtp.163.com#account#password# (The example parameters are for a 163 email)
3	Set Normal User's Phone	#n#13800138001#13800138002#13800138003#
4	Set Receive Email Address	#r#bmc1@sina.com#bmc2@sina.com#bmc3@bmc3@sina.com#
5	Get On Spot Photo	#t# (Send MMS to phone) #t#e# (Send a picture to Email by GPRS)
6	Check Camera Settings	#L#
7	Edit Work Parameters	#e#cp#s5#fh#b1#v60#t#l10m#pn#i5s#Hon08:30-20:30 (cp: camera mode, s5:photo size, fh: video size, b1:photo burst, V60: video length, t: set clock, l10m: time lapse, pn: pir trigger, i5s: PIR interval, mp: send to, Hon: work hour)
8	Format SD Card	#F#
9	Help	#H#

10	Change Password	#P#1234# (1234 New Password)
11	Query Attery Power	#C#

### 3.7 Camera Setup Options

To view the camera settings menu, press **MENU** in **TEST** mode. With the remote, use “▲” or “▼” key to select the sub-menu, use “◀” or “▶” key to select the different options. Press “OK” to save the settings.

**After changing EACH setting in the TEST menu, you must press “OK”, otherwise the camera will stay at the default settings.**

Setting Items	Description
<b>Language</b>	Choose desired language: English, Finnish, German, Swedish, Dansk, Spanish, French <b>Default: English</b>
<b>Camera Mode</b>	Choose to capture Photo, Video or Pic+Video. <b>Default: Photo</b>
<b>Set Clock</b>	Set camera date and time. You can change the date and time of the device by setting this parameter when necessary. The date format is <b>month/day/year</b> , the time format is <b>hour: minute: second</b> .

<b>Photo Size</b>	<p>Choose the image size.  24 MP Day - 18 MP Night  16 MP Day - 12 MP Night  10 MP Day - 8 MP Night  <b>Default: 24 MP Day - 18 MP Night</b></p>
<b>Photo Burst</b>	<p>Choose the number of photos taken after the camera is triggered: 1 Photo, 2 Photo, or 3 Photo. <i>If Pic+Video is selected, Photo burst defaults to 1 photo regardless of the entered value.</i>  <b>Default: 1 Photo</b></p>
<b>Video Size</b>	<p>Choose the video size: 1920x1080, 1280x720 or 640x480.  <b>Default:1920x1080</b></p>
<b>Video Length</b>	<p>Choose the duration of video recording. This parameter is effective and can be adjusted only when the device in the video mode under ON mode. Its value extends from 5-120 seconds. The default value is 10 seconds. Press <b>LEFT</b> or <b>RIGHT</b> to decrease or increase the value by 1 second.  <b>Default:10 sec</b></p>
<b>Time Lapse</b>	<p>Time-lapse means the camera can capture images or videos at a preset time interval regardless of whether motions are detected. The default parameter is Off, which means the timer function is disabled. Changing this parameter to a non-zero value turns on the Time Lapse mode, and the</p>

	<p>camera will take photos at given time intervals.</p> <p><b>Please note that if the PIR Trigger is set to Off, then the Time Lapse can't be set to Off.</b></p> <p><b>Default: Off</b></p>
<p><b>PIR Trigger</b></p>	<p>Choose the sensitivity of the PIR sensor.</p> <p>This parameter defines the sensitivity of the PIR. There are four sensitivity parameters: High, Normal, Low and Off. The default value is "Normal." The higher degree indicates that the camera is more easily triggered by motion, meaning more pictures captures and video recordings. It is recommended to use a high sensitivity setting in rooms or environments with little interference, and use lower sensitivity for outdoor or environment with lots of interference (e.g., wind, smoke, near the window.)</p> <p>Furthermore, the sensitivity of the PIR is strongly related to the temperature. Higher temperature leads to lower sensitivity. Therefore, it is suggested to set a higher sensitivity to the high-temperature environment.</p> <p><b>Please note that if the Time Lapse is set to Off, then the PIR Trigger can't be set to Off.</b></p>

	<b>Default: Normal</b>
<b>PIR Interval</b>	<p>This parameter indicates how long the PIR (Passive Infrared motion sensor) will be disabled after each triggering in ON mode. During this time, the PIR of the device will not react to any motion. The minimum interval is 0 second, meaning the PIR will work all the time. The maximum range is 1 hour, meaning the PIR will be disabled for 1 hour after each triggering. Press <b>LEFT</b> or <b>RIGHT</b> to decrease or increase the value.</p> <p><b>Default: 5 seconds</b></p>
<b>Work Hour</b>	<p>Choose a time of the day when the camera is working. The camera will be awake during working hours and sleeping during non-working hours. Setting Work Hour as off means the camera will be active all day.</p> <p><b>Default: off</b></p>
<b>Send Mode</b>	<p>There are 3 options for this setting: <b>Daily, Instant, OFF.</b></p> <ul style="list-style-type: none"> <li>● <b>Daily:</b> Only works in ON mode.</li> </ul> <ol style="list-style-type: none"> <li>1) <b>Photo Mode:</b> This setting will send summarized information and the last picture taken at the end of the time you had set.</li> <li>2) <b>Video Mode:</b> The summarized information will include how many videos were taken and the last video taken at the end of the time you had set (less than 10M).</li> </ol>

	<p>3) <b>Pic+Video Mode:</b> The summarized information will include how many videos and pictures were taken and the last picture taken at the end of the time you have set.</p> <ul style="list-style-type: none"> <li>● <b>Instant:</b> Only works in ON mode. The camera will send a message instantly after it captures a photo or video.</li> <li>● <b>OFF:</b> Disables all communication functions.</li> </ul> <p><i>NOTE: Some cellular carriers limit the size of files being sent. Some images and video files may be too large to send.</i></p> <p><b>Default: Instant</b></p>
<p style="text-align: center;"><b>Send To</b></p>	<p>Send the image to your phone or email options.</p> <ul style="list-style-type: none"> <li>● <b>Phone [MMS]:</b> Send the image to the cellular device via WAP.</li> <li>● <b>Email [MMS]:</b> Send the image to an email address via WAP.</li> <li>● <b>Email [GPRS]:</b> Send the image to an email address via SMTP.</li> <li>● <b>Molnus:</b> Send the image to Molnus via WAP.</li> </ul> <p><b>Default: Molnus</b></p>
<p style="text-align: center;"><b>Phone MMS</b></p>	<p>The camera sends images to a mobile phone. Required MMS settings: URL, APN, IP, Port, Account, and Password. Contact your cellular or network service provider if you are not familiar with the settings.</p> <p><b>“Phone1-Phone4”</b> stands for the receiving phone number.</p>

<p><b>Email MMS</b></p>	<p>The camera sends images to an email address via WAP. Required MMS settings: URL, APN, Account, Password, IP and Port. Contact your cellular service provider if you are not familiar with these settings.</p> <p><b>“Email1-Email4”</b> is for receiving an Email address. When you program the receiving emails, you can add up to 4.</p>
<p><b>Email GPRS</b></p>	<p>The camera sends images to your email address via the GPRS network with SMTP protocol. Required GPRS settings: APN, Account Password, Server, Port, SSL. Contact your cellular or network service provider if you are not familiar with the settings.</p> <p><b>“Email User and Email password”</b> is for sending email address and password.</p> <p><b>“Email1-Email4”</b> is for the receiving Email address.</p>
<p><b>Molnus</b></p>	<p>The camera sends images to an email address via WAP. Required settings: APN, Molnus Account/ Password, SIM IMEI &amp; Control Code.</p> <p>The APN name is provided by the operator of the SIM card. Molnus Account/Password: Register on the web by yourself.</p> <p>SIM IMEI &amp; Control Code: check the camera Version Enter. Insert the SIM card and get the network.</p>

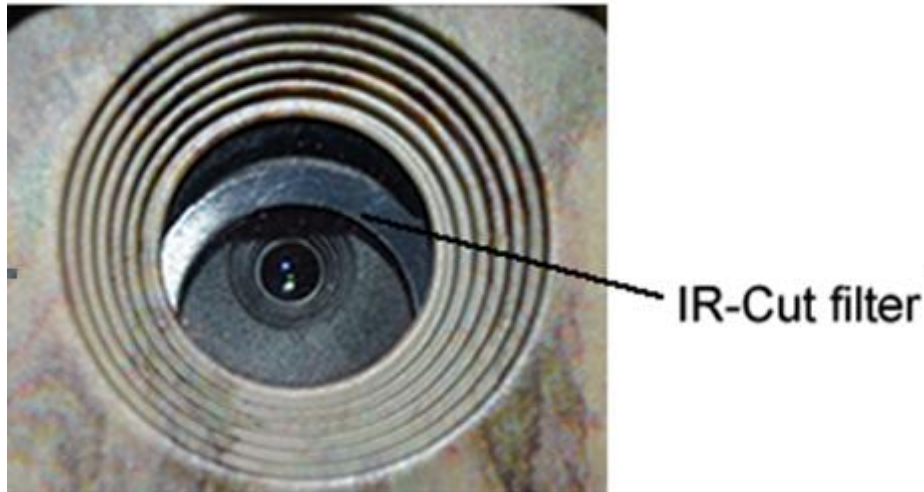


<p><b>SMS Control</b></p>	<p>SMS Control can enable two-way communication functionality. If <b>SMS Control</b> is <b>ON</b>, the camera can receive and respond to your SMS command. Live pictures can also be retrieved at any time, but power consumption will be a little more than normal hunting status.</p> <p><b>Default: Off</b></p>
<p><b>Camera Position</b></p>	<p>You can set the A-Z position for your camera in order to distinguish which photo is taken by which camera.</p> <p><b>Default: Off</b></p>
<p><b>Attachment Size</b></p>	<p>Setting the picture size which will be sent to your phone or email. There are 3 options for this setting.</p> <p><b>Low:</b> Sends a severely compressed picture.</p> <p><b>Normal:</b> Sends a slightly compressed picture.</p> <p><b>High:</b> Sends the original pictures.</p> <p><b>Default: Low</b></p>
<p><b>Recycle Storage</b></p>	<p>If the SD card is full in hunting mode, the first images or videos will be overridden by new pictures or videos. This only takes effect in hunting mode.</p> <p><b>Default: OFF</b></p>
<p><b>Password Set</b></p>	<p>Enter your four digits password to enter your camera when powering it on.</p> <p><b>Default: OFF</b></p>

<b>Version</b>	Shows the version of the camera.
<b>Format SD</b>	Deletes all images and videos on the SD card. Ensure to make a backup of important data before selecting this option.
<b>Default Settings</b>	Restores all customer settings to default values.

## 4. Troubleshooting

1 There is something in front of the camera lens. Is the camera broken?



A: The camera is not broken. It's an IR-cut filter. When the camera is powered on, the IR-cut will reset and cover the lens. Only when the camera is powered off will the IR-cut be at a random place.

2 The camera display screen is not working anymore.

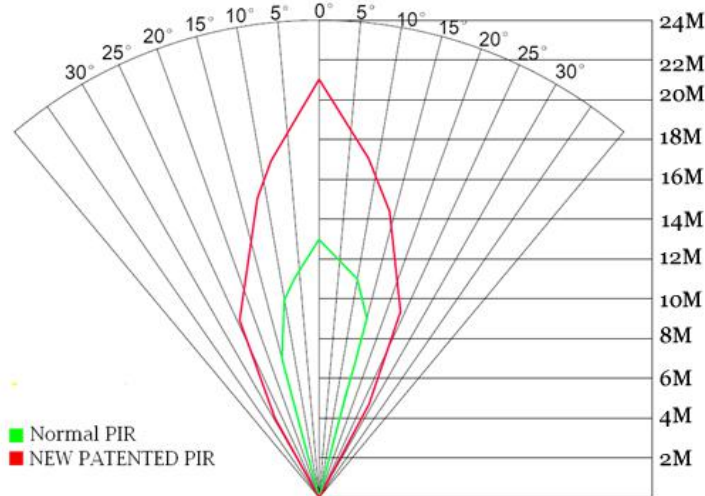
A: Most likely, an SD card was not inserted before turning the camera on. Please make sure a working SD card has been inserted in the camera before it is turned on.

3 Why can't my phone can't receive MMS?

A: MMS/GPRS function needs the SIM cards in both your camera and phone to have enough balance and to be opened to data exchange.

## 5. PIR Detection Zone

This camera has a new design of patented PIR with a detection range capable of reaching up to 90ft in good environments. The following picture shows the compared detection zone between normal PIR and the new patented PIR.



The PIR detection angle ( $\alpha$ ) is just smaller than the field of view (FOV) angle ( $\beta$ ). The advantage of this design is to reduce the empty picture rate and capture most, if not all, motions.

## **6. Technical Specifications**

<b>Image Sensor</b>	5MP Color CMOS
<b>Lens</b>	F/NO=2.4 FOV(Field of View)=57°
<b>LED Type</b>	940nm
<b>LED Number</b>	2pcs
<b>PIR Detection Range</b>	90ft.
<b>Illumination Distance</b>	90ft.
<b>Display Screen</b>	1.44" LCD
<b>Memory Card</b>	Up to 32 GB
<b>Picture Resolution</b>	24 MP Day - 18 MP Night 16 MP Day - 12 MP Night 10 MP Day - 8 MP Night
<b>Video Resolution</b>	1920x1080,1280x720,640x480
<b>PIR Sensitivity</b>	Adjustable (High/Normal/Low)
<b>Trigger Time</b>	1.2s
<b>Weight</b>	0.30 kg (without battery)
<b>Operation/Storage Temperature</b>	-20°C to +60°C / -30°C to +70°C
<b>Power Supply</b>	8*AA or 4*AA External DC 6V/2A
<b>Low Battery Alert</b>	LED Indicator
<b>Sound Recording</b>	Available
<b>Mounting</b>	Rope/Belt/Python lock
<b>Dimensions</b>	140*87*55 mm
<b>Operation Humidity</b>	5% - 90%
<b>Security Authentication</b>	FCC,CE,RoHS

## 7. Parts List

<b>Part Name</b>	<b>Quantity</b>
Digital Camera	1
Wireless Remote	1
USB Cable	1
Belt	1
User Manual	1
Enhanced Antenna	1

Version 1.1

# WARRANTY CARD

**Customer Name:** \_\_\_\_\_

**Contact Address:** \_\_\_\_\_

\_\_\_\_\_

**Date of Purchase:** \_\_\_\_\_

**Contact Tel:** \_\_\_\_\_

**Model No.:** \_\_\_\_\_

**Series No.:** \_\_\_\_\_

**Retailer:** \_\_\_\_\_

The camera manufacturer provides 12 months warranty for this product against manufacturing defective or malfunctions. If your camera fails to function under normal use within one year, the camera manufacturer will repair or replace the camera for free. This warranty does not cover improper use of the camera resulting in damage. The camera manufacturer can provide extra service for your camera after the warranty expiration, but the customer has to be responsible for additional charges on parts, labor, and shipping costs.

**Please contact your reseller for warranty service**