Thank you for purchasing the Camera. This camera is a remote controlled image-capturing device consisting of a microphone, infrared lights and a high quality 300,000-pixel camera lens. The Camera can capture images according to a pre-programmed remote command and then send it to your multimedia messaging (MMS) enabled mobile phone with color display, or to an e-mail address. You can control and change the camera settings via SMS command.

The MMS sent by the Camera can be viewed by using your mobile phone. You also can opt to view a slide of consecutive photos taken by the GSM Remote camera.

The built-in high-light infrared LED's allows the camera to capture clear images, even in dark environment.

The Camera is compatible with standard 433MHZ/315MHZ wireless sensors such as PIR, door magnet- and smoking sensors.

As soon as the wireless sensor triggers the camera alarm, you or your families and/or your guards can thus receive the alarm message via SMS, MMS or standard calls, according to the pre-programmed.

However, the camera can perform its duty well without any wireless sensor too. The camera has a motion detective function and an integrated infrared body detector. It will therefore detect any unauthorized entry into your house and notify you via SMS, MMS, standard calls or E-mail.

All services and functions need to be supported by the GSM network and a SIM card.

Details of the functioning and advanced operation of this camera are described in this instruction manual.
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GSM REMOTE CAMERA USER MANUAL

1. Purchase a GSM SIM card (mobile phone card) from GSM network service and install it in the camera. This SIM card number is referred as camera number on this brochure.

2. The user needs to activate the MMS function and Caller ID Presentation function of SIM card, and deactivate PIN code of the SIM. Contact with GSM network service for support.

3. Change the original password at the beginning use. Be sure to keep the password and SIM card number secret. Do not disclose this information to anyone other than the authorized users in order to ensure your safety.

For your safety
- This product is a wireless signal transmission device. Keep it away from electronic equipment likely to interfere with the wireless signals, in order to avoid signals interference.
- Switch off your camera and mobile phone when entering areas marked "Explosive", "Might explode", "Closed wireless transceiver devices" etc.
- Do not cast this product in a fire, as this may cause the battery to explode.
- This product should only be operated from power approved by the product manufacturer. The use of any other types of power may damage the product.
- Keep the product and its accessories out of the children reach.

Chapter 1 Features and accessories

1.1 Main function
- This product uses a GSM SIM card. It can send multimedia messaging (MMS) images to MMS enabled mobile phones with color display or to an E-mail address.
- Remote control: Control and configure the camera with short messages (SMS) commands from a mobile phone.
- Real time audio: call the camera number (SIM card) to listen in live voice.
- Motion detection: Detect and notify authorized users of any motion in the monitoring area(s).
- Integrated infrared body detector.

Exception clause
1. We operate on a policy of continuous development. We reserve the right to make changes and improvements to any of the products described in this document without prior notice.
2. We don't guarantee for the document veracity, reliability or any content except regulate in proper laws. Including no guarantee for product suitable market or suitable area promise.
3. Use only this product according to the law. Respect one another's privacy. Neither monitor another's home nor private. We hold no responsibility for the illegal use of this product.
4. We hold no responsibility for any loss of data or income; or any special, incidental, consequential or indirect damages howsoever caused.
5. The contents of this document are provided "as is". Except as required by applicable law, no warranties of any kind, either expressed or implied, including, but not limited to the accuracy, reliability or contents of this document. We reserve the right to revise this document or withdraw it at any time without prior notice.
- Sensor detection: Allowed to load up to 25 sensors such as door magnet sensor, infrared body sensor, smoke sensor, gas sensors, etc. Any activated sensor will notify the authorized users via SMS.
- Infrared light: The built-in high-light infrared LED's allows the camera to capture clear images, even in dark environments or areas with insufficient lighting.
- High quality camera: 300,000 pixel CMOS camera in order to obtain a clear image via MMS.
- Send images to mobile: The camera will send MMS images to your mobile. Therefore you can check on the monitored areas at any time and anywhere GSM/GPRS network coverage and MMS service coverage.
- Send images to E-mail: The camera can send images to preset available E-mail address.
- Multi-mode alarm: The camera can send alarm messages via SMS, MMS, E-mail or standard phone call.
- Fixed time monitor: The monitoring schedule can be set with multiple time intervals.
- Easy installation: Wireless connection. The camera can be installed at any place required by the authorized user.
- Accessories: Includes 2 remote controls each consisting of a panic button as well as buttons to arm or disarm the camera.
- Built-in lithium battery: Rechargeable battery ensures operation of camera amid external power failures.
- Downloadable user manual: This manual can be downloaded at any time via SMS command.

1.2 Package contents

- Remote camera 1 unit
- Power adapter 1 unit
- Remote control 2 units
- User manual 1 unit
- Base board 1 set
1.3 Products features

- **Reset key**
- **Base board**
- **Power switch**
- **Base board installing hole**
- **Speaker**
- **Light sensor**
- **Camera**
- **Infrared lights (6 pcs)**
- **Indicator light**
- **PIR sensor**
- **Microphone**
- **Battery holder**
- **Power interface (Mini USB)**
- **Base board connecting slot**

**Figure 1: Host instruction**

**Tip:** Keep the camera lens clean to insure best imaging quality.

---

**Battery:**
There is battery holder on the rear of the remote control. It needs one 27A/12V battery. When this battery is running out of power, camera will emit "Beep, beep" warning tone and then send a SMS notification message to Master user.

**Figure 2: Remote control Instruction**
1.4 Light indicator

<table>
<thead>
<tr>
<th>Color</th>
<th>Action</th>
<th>Status</th>
</tr>
</thead>
<tbody>
<tr>
<td>Red</td>
<td>Flash slowly</td>
<td>Searching the network.</td>
</tr>
<tr>
<td></td>
<td>Flash quickly</td>
<td>Sensor alarm, motion detection alarm, infrared body detector alarm.</td>
</tr>
<tr>
<td></td>
<td>Constant Light</td>
<td>Not installed SIM card, or the remote camera damaged.</td>
</tr>
<tr>
<td></td>
<td>Constant Light</td>
<td>Armed status.</td>
</tr>
<tr>
<td></td>
<td>Flash twice per 2 seconds</td>
<td>Arming command received. Camera will enter arming mode after 20 seconds.</td>
</tr>
<tr>
<td>Green</td>
<td>Flash slowly</td>
<td>Disarmed status.</td>
</tr>
<tr>
<td></td>
<td>Flash quickly</td>
<td>Processing data.</td>
</tr>
<tr>
<td></td>
<td>Light 2 seconds</td>
<td>Successfully reset factory setting, or loading sensor.</td>
</tr>
<tr>
<td>Orange</td>
<td>Flash</td>
<td>Loading remote control status.</td>
</tr>
<tr>
<td>Red and</td>
<td>Two color lights alternately</td>
<td>Loading sensor</td>
</tr>
<tr>
<td>Green</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

⚠️ Note:  
Slow flash 1 time per second, quick flash 2 times per second.

Chapter 2 Installation

2.1 Install the SIM card

Push downwards the battery cover from the rear of host by loosening the screw, take out the battery. Find the SIM card slot in the middle, insert the SIM card with the direction as the mark, and then place back the battery and host battery cover.

2.2 Host base board application

Figure 3: Base board instruction
2.3 Mount the camera

Camera can be mounted on a wall or put down on any suitable horizontal surface.
- According to base board installing hole space, make holes on the wall with a power drill.
- Insert expanding tube into the drilling hole, lock base board on the wall with self-drilling screws.
- Fix base board with the host by connecting slot.
- Host can turn around by base board’s axe.

2.4 Choose the installing place

- In order to capture better image quality, avoid any areas where bright light will be irradiated directly into the lens of the camera on the camera.
- In order to avoid backlighting photography, it is suggested that the camera is located at the place where can look down the monitoring place with the minimum angel 30°.
- The GSM network’s signal strength may affect the image, live voice quality and MMS transmission speed. Therefore, upon installation, the user should ensure that the camera is located in an area with a strong network signal.
- After installation, the user should perform a test-run by taking several images and sending it to the user’s mobile phone. This allows the user to check the image quality of the camera. The position of the camera can then be adjusted until a satisfactory image quality level is reached.

2.5 Connect external power

- Connect the power adapter to an AC power, and connect the plug to the power interface of the host.
- The camera has a built-in rechargeable Lithium battery. The camera will notify the user when the power changes. For example, if the power adapter is disconnected or failure of the AC power occurs, the camera will notify the user “External power – ceased. Running on battery.”
- If the camera is again connected to the external power, or the AC power is available again, the notification will be sent to the user, “External power – resumed.”
- Users can set the camera whether sending SMS message when the power supply changes. Refer to 5.4 SMS notification upon the power supply changing.

2.6 Power on/ off

**Power on:**
- Turn the power switch to up Position. A “Beep...” tone will be heard. Green light flash slowly, or Green light is on constantly. Camera is disarmed or armed.

**Power off:**
- Turn the power switch to down position. Then take off the power adapter.

Chapter 3 Define the user

3.1 User authorization level

There are three levels, each with a different authorization level, namely
Master, Families and Guest.

Table 3.1 the difference in authority for Master, Families and Guests users:

<table>
<thead>
<tr>
<th>Functions</th>
<th>User Type</th>
<th>Master</th>
<th>Families</th>
<th>Guests</th>
</tr>
</thead>
<tbody>
<tr>
<td>Change authority, password</td>
<td>YES</td>
<td>NO</td>
<td>NO</td>
<td></td>
</tr>
<tr>
<td>Automatic Alarm</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Receive SMS</td>
<td>YES</td>
<td>NO</td>
<td>NO</td>
<td></td>
</tr>
<tr>
<td>Receive MMS</td>
<td>YES</td>
<td>NO</td>
<td>NO</td>
<td></td>
</tr>
<tr>
<td>Receive alarm calling</td>
<td>YES</td>
<td>YES</td>
<td>NO</td>
<td></td>
</tr>
<tr>
<td>Get images by E-mail</td>
<td>YES</td>
<td>NO</td>
<td>NO</td>
<td></td>
</tr>
<tr>
<td>Emergency alarm</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Receive SMS</td>
<td>YES</td>
<td>NO</td>
<td>NO</td>
<td></td>
</tr>
<tr>
<td>Receive MMS</td>
<td>YES</td>
<td>NO</td>
<td>NO</td>
<td></td>
</tr>
<tr>
<td>Receive emergency calling</td>
<td>YES</td>
<td>YES</td>
<td>(Only emergency number)</td>
<td></td>
</tr>
<tr>
<td>Call the camera to listen in live voice</td>
<td>YES</td>
<td>YES</td>
<td>NO</td>
<td></td>
</tr>
<tr>
<td>Get work status, images, help and</td>
<td>YES</td>
<td>YES</td>
<td>YES</td>
<td></td>
</tr>
<tr>
<td>instruction by sending SMS command</td>
<td></td>
<td></td>
<td>(Password)</td>
<td></td>
</tr>
<tr>
<td>Get images by E-mail</td>
<td>YES</td>
<td>YES</td>
<td>NO</td>
<td></td>
</tr>
<tr>
<td>Set remote camera by SMS command</td>
<td>YES</td>
<td>YES</td>
<td>NO</td>
<td></td>
</tr>
<tr>
<td>Add, modify or delete sensor</td>
<td>YES</td>
<td>YES</td>
<td>NO</td>
<td></td>
</tr>
<tr>
<td>Camera language setting</td>
<td>YES</td>
<td>NO</td>
<td>NO</td>
<td></td>
</tr>
<tr>
<td>Set infrared body detect function</td>
<td>YES</td>
<td>YES</td>
<td>NO</td>
<td></td>
</tr>
</tbody>
</table>

Note:
- Any MMS enabled mobile phone can receive the images captured by camera by sending SMS command with password.
- Any SMS enabled mobile phone can control camera with the password command.

All the settings of camera can be set or adjusted via a SMS command.

About the SMS Command:
1. Master and families users’ SMS command format: #code#content#.
2. Guest users’ SMS command format: #code#password#content#.
3. The password must be a four-digit number.
4. The original password is 1234.
5. The maximum digits that are allows for the phone number is sixteen.

Camera will reply to the user after it receives the SMS command.

Note:
- The “#” symbol must not be ignored when typing an SMS command.
- No allow any space within the commands.

3.2 Switching on/off the socket output manually

In order to enable all the functions on the camera, the Master user must store his/her mobile number in the camera’s memory. Only one Master’s mobile number (Master number) is allowed for a camera.

3.2.1 Add a master number to the camera

Authority: Master user.

Description
If the camera is being used for the first time, or it has been reset, the master user’s number must be programmed into the camera, in order to ensure activation. The following methods can be used:

Method
The user must edit and send the following SMS to camera via his/her mobile phone (the phone number will be the Master number) in order to: Add a master number to the camera:

Reply SMS:
Welcome to the GSM Remote Camera. Your password is ‘1234’.
SIM: *****

Activate Successfully
Reply SMS:  *Invalid command format

Activate Fail: User tries to activate a camera which has Master phone number already.
3.2.2 Change the master number

Authority: Master user.

Method
The user sends following SMS message in order to:
Change the master user’s number: #14#NewMasterNumber# (2)

Successful SMS reply
New master-phone-number is ****
Then the old master user’s number will not be able to control camera anymore.

3.2.3 Change password

Authority: Master user.

Description
In order to ensure your privacy and safety during the use of this camera, change the password once camera is being used.

Method
The user sends following SMS message in order to:
Change the password: #04#oldpassword#newpassword# (3)
The password is a four digit number.
The original password is 1234.

Successful SMS reply
The password successfully changed to ****.

Failed SMS reply
If a user, other than the master user, attempts to change the password, a notification message will be sent via SMS: “Sorry, you are not authorized to use this command”

3.3 Define family user

Family users have the authority to listen in on the camera, receive images, load the sensors and remote controls to the camera, and receive notification when motion detection activated. The family user’s mobile numbers are set by the Master user. The family users should remember and safeguard the camera’s SIM number.

3.3.1 Add a family number

Authority: Master user.

Method
The user sends following SMS message in order to:
Add a family number: #06#FamilyNumber# (4)
Add several family numbers:
#06#FamilyNumber#...#Family Number# (5)
Up to 10 family users’ number can be stored on one camera.

Successful SMS reply
Family Number
The Associate-phone-number has been added successfully.

3.3.2 Check family user’s number

Refer to Chapter 4.15 Check status.

3.3.3 Delete family number

Authority: Master user.

Method
The user sends following SMS message in order to:
Delete a family number: #113#FamilyNumber# (6)
Delete several family numbers simultaneously:
#113#FamilyNumber#...#Family Number# (7)
Delete all family numbers: #113#

Successful SMS reply
Family number Associate-phone-number-deleted.

Failed SMS reply
Associate-phone-number does not exist.
When user type the wrong phone number (not exited in device) to delete, SMS: Family number Associate-phone-number-deletion failed.

3.4 Define Guest user

Any selected person can operate in the Guest category if they know the password and the SIM number. The Guest user(s) can then use their mobile phones to send a SMS command including password to camera in order to obtain an MMS image.

3.5 Define emergency number

The Emergency Number is the phone numbers which camera will dial when the emergency button of the remote control is pressed. Emergency numbers could be the telephone numbers of guards, family numbers, police etc.

3.5.1 Add emergency number

Authority: Master user.

Description
- The master user's number default to be emergency number.
- When the Emergency button is pressed, camera will automatically dial the Master user's number, followed by the other pre-set emergency numbers (the default mode is dial phone mode).
- Each camera can have up to 9 emergency numbers. (Not including the Master user's number).

Method
- The user sends following SMS message in order to:
  - Add single emergency number on the camera: #106#EmergencyNumber# (9)
  - Add several emergency numbers on the camera: #106#EmergencyNumber#...#EmergencyNumber# (10)
- The EmergencyNumber is the phone numbers.

Up to 9 emergency numbers can be stored on one camera.

○ Successful SMS reply
  - Emergency Number
    - Add emergency-phone-number successful

○ Failed SMS reply
  - If 9 emergency numbers (the maximum amount per camera) are used on camera and the master user attempts to add another one, the following notification message will be sent via SMS: "Emergency-phone-number list is full. Please delete old number(s)."
  - If an existing number is being added again, the following notification message will be sent via SMS: "Emergency-phone-number already exists."

3.5.2 Delete emergency number

Authority: Master user.

Method
- The user sends following SMS message in order to:
  - Delete an emergency number: #107#EmergencyNumber# (11)
  - Delete several emergency numbers:
    - #107#EmergencyNumber#...#EmergencyNumber# (12)
  - Delete all emergency numbers: #107# (13)
- Successful SMS reply
  - Emergency-phone-number is deleted successfully

3.5.3 Check emergency number

Refer to Chapter 4.15 Check status.

Chapter 4 Basic use and settings

4.1 Network parameter settings
Note
In general, the user does not need to set the network parameter before use. The connect parameters have been set by the manufacturers according to every country's respective GSM provider. If the camera is unable to send MMS messages continually, the user can attempt to do these settings.

Description
If the camera is unable to send MMS messages continually, The GSM provider's MMS parameter must be added onto the camera by using command 14, 16, 17(for WAP) or 15,16,17(for HTTP).

Method
The user sends following SMS message in order to:
Set sending MMS message via WAP: #148#0# (14)
Successful SMS reply: Send MMS using WAP protocol
Sending MMS message via HTTP: #148#1# (15)
Successful SMS reply: Send MMS using HTTP protocol
Set MMS center: #124#MMScenter# (16)
• The MMS center should be the MMS center address of GSM provider. For example: #124#http://mmsc.monternet.com#

Successful SMS reply: PAR: ****

4.2.1 Capture one image and send to the user mobile
Authority: Master, family and guest users.
Method
Method 1:
• Master or family user calls the camera and hand up upon hearing the ringing tone (within 20 seconds).
• Camera will reply SMS notification: “Image capturing request received. The camera is busy sending the MMS messages.”

Successful SMS reply
Your request received, device is sending the MMS image
• The user will then receive the MMS message momentarily.
• The guest users are unable to capture an image by using method 1. If the guest users call the camera, it will neither send a notification message nor an MMS message.

Method 2:
The user sends following SMS message in order to:
Capture one image and send to the user mobile:
For master and family users: #03#
For guest users: #03#password# (19)

4.2.2 Capture images and send to the user's mobile
Authority: Master, family and guest users.
Method
The user sends following SMS message in order to:
Capture images and send to the user mobile:
For master and family users: #03#imageQuantity# (20)
For guest users: #03#Password#imageQuantity# (21)

Image quantity should be in the range of 1-8 when the image size is set at 160x128 or 320x240 (See 5.1.1 image size.) The default
image size is 320×240(QVGA).

- **Image quantity** should be in the range of 1-2 when the image size is set at 640×480.

😊 **Successful SMS reply**
Your request received, device is sending the MMS image.

- The user will then receive the MMS message momentarily.
- The file format of the sent MMS images is: "Time.jpg". For example, a file with name of 094843.jpg means the image is captured with at 9:48:43AM.
- If a sent MMS file has several sequential pictures, the size of the pictures is pre-set by user (See 5.1.1 image size.). The interval between the pictures is default 0.5s and can be pre-set by user (See 5.1.3 image interval).

4.2.3 Capture images and send to user’s E-mail address

Authority: Master and family users.

🔍 **Description**
If the master or family user wishes to send the images to his/her E-mail address, the E-mail address must be set at first. See chapter 4.3 E-mail settings for more information regarding this function.

🔍 **Method**
The user sends following SMS message in order to:
Capture image(s) and send to pre-set E-mail:

```
#03#ImageQuantity##1#
```

- **Image quantity** should be in the range of 1-8 when the image size is set at 160×128 or 320×240.
- **Image quantity** should be in the range of 1-2 when the image size is set at 640×480.

😊 **Successful SMS reply**
Your request received, device is sending the MMS image.

4.2.4 Capture images and send to an appointed mobile or E-mail address

Authority: Master, family and guest users.

🔍 **Method**
The user sends the following SMS message in order to:
Capture image(s) and send to appointed mobile or E-mail address:
For Master and family user:
```
#30#NumberOrEmail##ImageQuantity#
```

For Guest user:
```
#30#Password##NumberOrEmail##ImageQuantity#
```

- **NumberOrEmail** should be the mobile phone number or E-mail address which the user appointed to send image.
- Image quantity should be in the range of 1-8 when the image size is set at 160×128 or 320×240(The default image size). See 5.1.1 image size.
- Image quantity should be in the range of 1-2 when the image size is set at 640×480.

😊 **Successful SMS reply**
Request received, Sending to "***" images

- The file format of the sent MMS images is: "Time.jpg". For example, a file with name of 094843.jpg means the image is captured with a camera at 9:48:43AM.
- If a sent MMS file has several sequential pictures, the size of the pictures is pre-set by user (See 5.1.1 image size). The interval between the pictures is default 0.5s and can be pre-set by user (See 5.1.3 image intervals).

4.3 E-mail settings

🔍 **Note**
This function should be supported by the local network provider. Please contact your local network provider for the details concerning this function.
4.3.1 Add/modify an E-mail address

Authority: Master and family users.

Description
- Each user number can be set only one E-mail address. If more than one E-mail address is set onto one user number, camera will only recognize the E-mail address put in the last.
- If the user wishes capturing an image and sending to his/her E-mail address, see 4.2.3 capture images and send to user’s E-mail address.
- If the user wishes camera sending the alarm image to his/her E-mail address, see 5.2.10 MMS notification to pre-set E-mail address.

Method
The user sends following SMS message in order to:
Add/modify an E-mail address: @106#EmailAddress#
Successful SMS reply
Current alarm notification E-mail address is *****

4.3.2 Delete E-mail address

Authority: Master user.

Method
The user sends following SMS message in order to:
Delete all E-mail address: @109#
Successful SMS reply
E-mail address-deleted

4.4 Timing send images to mobile

Authority: Master user.

4.4.1 Enable timing sends MMS images

Method

The user sends following SMS message in order to:
Enable timing sends MMS images: #115#1#
Successful SMS reply
Periodic sending of images-activated

4.4.2 Set time period to send MMS images

Method
The user sends following SMS message in order to:
Set time period to auto-send MMS image:
#116#WorkDay#StartTime1#EndTime1#IntervalTime1...#StartTime3#EndTime3#IntervalTime3#

- Max allow 3 periods per workday. Each period time should set by start time, end time and interval.
- Workday: one digit, the values lie in the range of ‘0’ to ‘9’.
- The following table contains the descriptions of each value:

<table>
<thead>
<tr>
<th>Value</th>
<th>Corresponding day</th>
</tr>
</thead>
<tbody>
<tr>
<td>0</td>
<td>Sunday</td>
</tr>
<tr>
<td>1</td>
<td>Monday</td>
</tr>
<tr>
<td>2</td>
<td>Tuesday</td>
</tr>
<tr>
<td>3</td>
<td>Wednesday</td>
</tr>
<tr>
<td>4</td>
<td>Thursday</td>
</tr>
<tr>
<td>5</td>
<td>Friday</td>
</tr>
<tr>
<td>6</td>
<td>Saturday</td>
</tr>
<tr>
<td>7</td>
<td>Everyday</td>
</tr>
<tr>
<td>8</td>
<td>Monday to Friday</td>
</tr>
<tr>
<td>9</td>
<td>Monday to Saturday</td>
</tr>
</tbody>
</table>

- Start Time and End Time: Be consists of 4 digits (hh:mm) and works on a 24 hour clock. For example: 0000 means time 00:00(hh:mm), 2359 means time 23:59(hh:mm). The Start Time and End Time should be in the same day, and the End Time must be later than Start Time.
- Interval Time: This consists of 2 or 3 digits and has values in the
4.4.3 Disable timing send MMS image

**Method**
The user sends following SMS message in order to:

**Disable timing send MMS image:** #115#0# (29)

**Successful SMS reply**
Periodic sending of images parameter: ****

4.5 Remote control

4.5.1 Add remote control(s) to the camera

**Description**
When a remote control is added to a camera, it can control the camera. A camera can be added up to 5 remote controls.

**Method**

<table>
<thead>
<tr>
<th>Indicator</th>
<th>Operations</th>
<th>Status</th>
</tr>
</thead>
<tbody>
<tr>
<td>Green, flashing or constant light</td>
<td>1. Press and hold the Reset key for 2 seconds</td>
<td>Indicator light turns to orange (Learning mode)</td>
</tr>
<tr>
<td>Orange, flashing</td>
<td>2. Press any button on the remote control (with battery inside) to send a signal to Camera.</td>
<td>Camera will emit a &quot;Beep&quot; tone and indicator will turn green for 2S. (Added successfully.)</td>
</tr>
<tr>
<td>Orange, flashing</td>
<td>3. Repeat step 2 to load another new remote control.</td>
<td></td>
</tr>
<tr>
<td>Orange, flashing</td>
<td>4. Press the Reset key to exit the learning mode or waiting for 15 seconds to auto-exit.</td>
<td>Indicator light turns green, flashing or constantly light. (Exit learning mode)</td>
</tr>
</tbody>
</table>

**Note**
During the process of learning new remote control, if the battery of remote control runs out, camera will emit three "Beep..." tones and exit learning mode. You need to replace the battery and try learning process again.

4.5.2 Remote control instruction

There are three buttons on the remote control:

A. **Arm the camera**
   - When is pressed, the indicator light on Camera will turn green. This indicates that Camera is in armed mode.
   - Any motion detected by Camera as well as any activation of added wireless detector will trigger the camera alarm and a SMS/MMS or phone calling notification will be sent to the preset numbers.

B. **Disarm the camera**
   - When is pressed, the indicator light on camera will slowly flash green. This indicates that camera is in disarmed mode.
   - Camera will not detect any motion or receive sensor alarm signal.

C. **Emergency button**
   - When is pressed, the indicator light on camera will rapidly flash green. Then camera will dial the master user's number. Live audio stream can be heard upon answering the emergency call.
   - If the master user does not answer the call, camera will then dial the other emergency numbers as preset order, until someone answers the call.
   - The master user's number as well as the emergency numbers will be called a maximum three times. If it is still no one answers the call, camera will then exit dialing mode automatically.
   - When is pressed, camera could send a notification via SMS and MMS instead of making phone calls. This all depends on the setting. Refer to 4.6 Emergency alarms.
4.5.3 Arming or disarming SMS notification

Authority: Master and family users.

Method
The user sends following SMS message in order to set:

No SMS notification message upon arming or disarming camera via remote control: #137#0# (30)

_successful SMS reply
SMS upon status change by remote control — disabled.

Send SMS notification message upon arming or disarming camera via remote control: #137#1# (31)

_successful SMS reply
SMS upon status change by remote control-enabled

Press Arm the camera button on remote controller, user will receive
SMS: Defense mode is activated

Press Disarm the camera button on remote controller, user will receive
SMS: Defense mode is de-activated

4.5.4 Remove remote control from the camera

Authority: Master and family users.

Method
The user sends following SMS message in order to:

Remove all remote controls from the camera: #111# (32)

_successful SMS reply
All remote controls-deleted.

4.6 Emergency Alarms

Authority: Master and family users.

Description
- When the wireless panic button or button on the remote camera is pressed, camera will go into emergency mode to alarm. The wireless panic button and remote control need to be loaded onto pre-set emergency numbers.

Camera before use. (Refer to chapter 4.10.1 and 4.5.1 for details)
There are two modes of the emergency alarm could be set on the camera:

Emergency Mode1 (Default): To dial the master user’s number as well as the pre-set emergency numbers. When the emergency button is pressed on the remote control, camera will dial the master user’s number as well as the pre-set emergency numbers. Camera will repeat this process 3 times, until someone answers. If, after 3 attempts, there is no answer, camera will automatically stop dialing and revert to its preset mode. In the case of someone answers, he/she will be able to listen in the live audio.

Emergency Mode2: To send a notification via SMS and MMS to the master user as well as the pre-set emergency numbers. When the emergency button is pressed on the remote control, camera will send the notification via SMS and MMS to the master user as well as the pre-set emergency numbers.

Method
The user sends following SMS message in order to set:

Emergency Mode1 (To dial the master user’s number as well as the pre-set emergency numbers): #39#0# (33)

_successful SMS reply
Voice call to preset number upon emergency alarm — enabled.

Emergency Mode2 (To send a notification via SMS and MMS to the master user as well as the pre-set emergency numbers): #39#1# (34)

_successful SMS reply
SMS and MMS notification upon emergency alarm — enabled.

Press Emergency button on remote controller, user will receive SMS and MMS
SMS: Receive emergency alarm
MMS (Picture title): HH:MM:SS (Emergency alarm)
4.7 Listening in and talking

4.7.1 Call the camera to listen in and talk

Authority: Master and family users.

Method
The user calls camera after which it will answer automatically. The user can then listen in the live audio in the monitoring area. Only one line can be connected to camera at a time.

4.7.2 Listening in and talking upon emergency alarm

Description
- Whether camera is in arm or disarm status, it will automatically dial the Master user's phone number if the emergency button is pressed. The Master user can listen in by answering the call.
- If the Master user does not answer the call, camera will automatically dial the other emergency numbers sequentially. This notification process will repeat three times and if still unanswered, camera will automatically exit the dialing mode.

4.7.3 Listening in and talking upon automatically alarm

Description
- When the camera is in armed status and if the user preset the auto-alarm way as calling the user (Refer to chapter 5.2.g Call notification upon alarm for the details of preset alarm) a call will automatically go through to the Master user's preset numbers when the camera alarms. The user can communicate with the monitoring area by answering the call.

4.8 Infrared body detector

Authority: Master and family users.

Description
When camera is working under arming mode, if someone approaches to the detecting area, the built-in infrared body detector will trigger the camera alarm.

Method
The user sends following SMS message in order to:
Activate infrared body detector (default): 
Deactivate infrared body detector:

Successful SMS reply
Infrared body detector - activated
Infrared body detector - deactivated

- When the infrared body detection alarms, the notification pictures will be sent on one message via MMS. The default quality of individual picture is 5 and the size is 320x240 pixels. In order to change the setting, see chapter 5.1.1 Image size and chapter 5.1.2 Image quantity when alarm.
Enhanced Application of Infrared body detector link motion detection

at some special situation, only both of Infrared body detector and motion detector were actived with 10 seconds, the device send motion detection alarm. Such case will be avoid the lighting changing or falling leave / small flying insects cause wrong alarm.

Infrared body detector link motion detector:

Combined motion detection and infrared sensor - activated

4.9 Motion detection

Description

• The motion detection feature is based on image frame compare technology. The firmware will compare front and after images which capture from camera and therefore detect motion.
• The motion detection feature only functions when camera is armed. i.e., arming camera enables the motion.
• The motion detection feature is also functional when camera is in its default setting.
• When the motion detection alarms, the notification pictures will be sent on one message via MMS. The default quality of individual picture is 5 and the size is 320×240 pixels. In order to change the setting, see chapter 5.1.1 Image size and chapter 5.1.2 Image quantity when alarm.

Note

• If camera faces an object that moves constantly, such as a tree shaking in the wind, it will send alarm message constantly. Recommend to use the camera in a still place.
• Low battery: The motion detection function will be deactivated and the configure setting can not be saved when camera is operating in low battery.

4.9.1 Activate/Deactivate motion detection

Authority: Master and family users.

Method

The user sends following SMS message in order to:

Deactivate motion detection (default): #22#0#

Successful SMS reply

Motion detection is de-activated

Activate motion detection:

#22#1#

Successful SMS reply

Motion detection is activated

4.9.2 Send five images upon motion detection alarm

Authority: Master and family users.

Description

Camera will send out 5 images with fixed size of 160×128 pixels when motion is detected.

Method

The user sends following SMS message:

Send five images upon motion detection alarm: #142#1#

Cancel send five images of motion detection alarm: #142#0#

4.10 Wireless sensor(s)

Authority: Master and family users.

Description

Any 433MHZ/315MHZ wireless sensor, such as infrared body sensor,
wireless door magnet, wireless smoke detector etc. can be set as an alarm sensor of the camera.

4.10.1 Load a wireless sensor or a panic button onto the camera

Authority: Master and family users.

Description
- Up to 25 wireless sensors and panic buttons can be loaded onto one camera.

Method
1. Power on the wireless sensor.
2. The user sends following SMS message to:

Make camera enter loading mode and set corresponding alarm mode:

$\text{#05#SensorDescription}#$ (42)

Successful SMS reply
Device is ready to load wireless sensor. Activate the sensor immediately.

After Sensor Description was actived, device will receive SMS
$\text{**** sensor successfully loaded.}$

Make camera enter loading the “wireless panic button” mode:

$\text{#196#PanicDescription}#$ (43)

Successful SMS reply
Ready to load panic button. Activate panic button NOW.

After Panic Description was actived, device will receive SMS
$\text{**** sensor successfully loaded.}$

- Sensor Description and Panic Description is used for identify different sensors affiliated with each camera. It can be numbers and letters.
- Sensor Description could be empty. If SMS command is only $\text{#05#}$, camera will recognize the sensors in number order been added to the camera. For example, Sensor1, Sensor2, Sensor3. When a sensor triggers camera alarm, camera will default send out SMS alarm message only.
- Panic Description could be empty. If SMS command is only $\text{#196#}$, camera will recognize the panic button in number order been added to the camera. For example, SOS1, SOS2, SOS3. When a wireless panic button triggers camera alarm, camera will send out emergency alarm (Refer to chapter 4.6 Emergency Alarms).
- Up to 9 characters can be typed in Sensor Description and Panic Description.

Set the wireless sensor alarm mode:
- If you add * at front of Sensor Description, Camera will send out MMS and SMS alarm message.
  - E.g. $\text{#05#*door2#}$ when “door2” sensor triggers camera alarm, Camera will send out SMS and MMS alarm messages.
- Otherwise, if the first character of Sensor Description without *, camera will send via SMS only.
  - E.g. $\text{#05#door1#}$ when “door1” sensor triggers camera alarm, Camera will send out SMS alarm message only.
- If the sensor is set “send alarm via SMS only when it alarm” by this command successfully, the user can not use command 81, 82, 83 and 84 to change alarm way of the sensor.

3. When camera has received the SMS command, it will emit a “Beep...” tone and the indicator will flash red and green alternately. Camera will then send a notification message via SMS to the user(s): Device is ready to load wireless sensor. Activate the sensor immediately.
4. The user needs to make the sensor work and transmit signal to be studied by camera.
  - E.g. For a wireless door magnet, open and close the door once to send the signal to the camera.
5. When camera receives the sensor signal, it will emit a “Beep...” tone and send a notification message via SMS to the user(s) stating “**** sensor successfully loaded.”
6. To exit the loading mode manually, press the Reset key of the camera, camera will emit a “Beep...” tone and exit the loading mode.
Failed SMS reply

- If Camera failed to load the sensor, the indicator light on camera will flash red and green alternately for approximately 60 seconds, camera will revert back to the preset armed/diarmed mode.
- When the maximum amount of sensors is already loaded, if a user attempts to load one more sensor onto the camera, camera will send a SMS message “Sensor list is full. Please delete old sensor at first.”
- Camera will emit “Beep, Beep….” tone if the user want to load an existed sensor which has been loaded onto camera.

4.10.2 Remove wireless sensor

Authority: Master and family users.

Method

The user sends following SMS message in order to:

Remove a wireless sensor:

\[ \text{Sensor description} \]

\[ \text{#112#SensorDescription#...#SensorDescription#} \]  (44)

- \text{Sensor description} should be the existing sensor which the user wants to remove.

Successful SMS reply

\[ \text{All sensors - deleted, ***} \]

Remove all wireless sensors:

\[ \text{#112#} \]  (45)

Successful SMS reply

\[ \text{All sensors - delete} \]

Enhanced Application of wireless sensor link motion detection

At some special situation, Only both of wireless sensor and motion detector were actived with 20 seconds, the device send motion detection alarm. Such case will be avoid the lighting changing or falling leave / Small flying insects cause wrong alarm

Wireless sensor link motion detector:

\[ \#166\#2\#SensorDescription\#1\# \]  (46)

User can repeat upper command to link more wireless sensor

Wireless sensor dislink motion detector:

\[ \#166\#2\#SensorDescription\#0\# \]  (47)

User can dislink appointed wireless sensor, all sensors

Combined motion detection and sensor – deactived

(Including built-in PIR sensor) \[ \#166\#0\# \]  (48)

4.11 Arming or disarming camera manually

4.11.1 Arming camera manually

Authority: Master and family users.

Description

- When camera is arming, it can be triggered by all loaded sensors, infrared body detector and motion detector. Camera will automatically send alarm message or making a phone call once it is triggered.
• Once camera alarms automatically, after it finish sending the alarm message, it will be at the alarm-suspension situation for default 1 minute, that is, the camera can not be triggered again within a period time (How to change alarm-suspension time period? Refer to chapter 5.2.11 for more details).

Method
Method 1:
The user sends following SMS message in order to:
Arming camera manually:  #01# (49)

Method 2:
Press 📷 on the remote control, whilst pointing it in the direction of camera. Camera will emit a “Beep” tone, to indicate that arming camera is successfully.

Successful SMS reply
Defense mode activated
The indicator light will flashing, and 20 seconds later turn green (no flashing).

4.11.2 Default arming mode
• In this mode, the infrared light will be on.
• When motion is detected, a notification will be sent via SMS to preset user numbers. Five notification pictures will be sent on one message via MMS. MMS image quality is 320×240(QVGA).
• When the integrated infrared body detector and loaded wireless sensor alarms camera, a notification will be sent via SMS to preset user numbers. Five notification pictures will be sent on one message via MMS. MMS image size is 320×240(QVGA).
• Once camera alarms, after it finish sending the alarm message, it will be at the alarm-suspension situation for default 1 minute.

4.11.3 Disarming camera manually
Authority: Master and family users.

4.12 Timed arming the camera
Authority: Master and family users.

4.12.1 Enable timing arms the camera

Method
The user sends following SMS message in order to:
Enable timing arms the camera:  #128#1# (51)

Successful SMS reply
Periodic arming and disarming the device – activated. Then camera will arming automatically according to the settings.

4.12.2 Set time period to arm the camera

Method
The user sends following SMS message in order to:

**Set time period to arm the camera:**

```
#129#WorkDay#ArmTime1#DisarmTime1#...#ArmTime3#DisarmTime3#
```

- Up to 3 periods be allowed per workday. Each period time should set by **Arm Time, Disarm Time**.
- **Work Day:** one digit, the values lie in the range of "0" to "9".
- The following table contains the descriptions of each value:

<table>
<thead>
<tr>
<th>Value</th>
<th>Corresponding day</th>
</tr>
</thead>
<tbody>
<tr>
<td>0</td>
<td>Sunday</td>
</tr>
<tr>
<td>1</td>
<td>Monday</td>
</tr>
<tr>
<td>2</td>
<td>Tuesday</td>
</tr>
<tr>
<td>3</td>
<td>Wednesday</td>
</tr>
<tr>
<td>4</td>
<td>Thursday</td>
</tr>
<tr>
<td>5</td>
<td>Friday</td>
</tr>
<tr>
<td>6</td>
<td>Saturday</td>
</tr>
<tr>
<td>7</td>
<td>Everyday</td>
</tr>
<tr>
<td>8</td>
<td>Monday to Friday</td>
</tr>
<tr>
<td>9</td>
<td>Monday to Saturday</td>
</tr>
</tbody>
</table>

- **Arm Time and Disarm Time:** Be consists of 4 digits (hh:mm) and works on a 24 hour clock. For example: 0000 means time 00:00(hh:mm), 2359 means time 23:59(hh:mm). The Airtime and Disarm Time should be in the same day, and the Disarm Time must be later than Airtime during the same period.

**Successful SMS reply**

Periodic of arming and disarming parameter is: ****

4.12.3 Disable timing arm the camera

**Method**

The user sends following SMS message in order to:

Disable timing arm the camera: #128#0# (53)

**Successful SMS reply**

Periodic of arming and disarming the device - deactivated.

4.13 Auto-disarming the camera

**Description**

In order to avoid camera sending out alarm message all the time and out of **Master's** attention, camera can be set auto-disarm when it has been sent out alarms certain times (At least one alarm message should be sent via MMS). After the user set this function successfully, any alarm of camera will be counted in alarm times. When the user arms/disarms camera manually, the counted alarm time will be cleared to 0.

4.13.1 Activate auto-disarming the camera

**Authority:** Master and family users.

**Method**

The user sends following SMS message in order to:

Activate auto-disarming the camera: #136#1# (54)

**Successful SMS reply**

Disarm the device after several times alarm - activated

Set the value of alarm times when camera is auto-disarming:

```
#139#times#
```

- The times should be numbers.

**Successful SMS reply**

- Disarm the device after * times alarm
- When the alarm times reach to the times value setting, camera will be auto-disarmed and send SMS message" The device has been auto-disarmed."

4.13.2 Disable the function of auto-disarming the camera (default)

**Authority:** Master and family users.

**Method**
The user sends following SMS message in order to:

Disable the function of auto-disarming the camera: *!138#0#* (56)

成功的SMS reply
Disarm the device after several times alarm de-activated

4.14 Camera language setting

Authority: Master user.

Description
Camera supports both English and Spanish (or the user's first language) display.

Method
The user sends following SMS message in order to set:

English (default): *!127#1#* (57)
Russian: *!127#2#* (58)
Spanish: *!127#3#* (59)
France: *!127#4#* (60)

成功的SMS reply
Set **** version successfully

4.15 Check status

Authority: Master, family and guest users.

Method
The user sends following SMS message in order to:

Check the present settings and work status of camera:
- For master and family users: *!07#* (61)
- For guest users: *!07#password#* (62)

成功的SMS reply
- Camera will reply via MMS, depending on which status is currently set on. Such as:
  - (Dis) armed
  - SMS upon alarm
  - MMS upon alarm

4.16 Getting help

Authority: Master, family and guest user.

Description
The user can send SMS to camera in order to get the SMS command list which the command description as well as the codes will be supplied or get the MMS named "CAMERA user manual" on which all the command descriptions as well as the codes will be supplied. The list and the manual's contents can be view via the user's mobile phone.
Method
The user sends following SMS message in order to:

Getting normal command list via SMS:
- For master and family users: #09# (63)
- For guest users: #09#password# (64)

Getting detailed instruction via MMS:
- For master and family users: #09#1# (65)
- For guest users: #09#password#1# (66)

4.17 Resetting the camera

Authority: Master user.

Description
- This function resets all programmed settings to their original values.
- After camera is reset, it will need to be restarted. The remote control as well as the wireless sensor will also need to be reloaded. Refer to chapter 3.2 Define Master user to start the camera.
- After resetting the camera. However, if the MMS function does not work, the MMS parameter will need to be reset. Refer to chapter 4.1 Network parameter settings.

Note
This function needs to be used carefully as it also erases the values for the master number, the remote control as well as the wireless sensor(s).

Method
Method 1: Reset via the camera
- Switch camera off. It must remain off for a minimum of 20 seconds.
- Press and hold the Reset button and then switch camera back on.
- The indicator light will be green for 2-4 seconds after which it will flash red.
- If the resetting of camera is successful, a “Beep ...” tone will be emitted.

Method 2: Reset via SMS command
The user sends following SMS message to camera in order to:
Reset the camera: #08#password# (67)

Chapter 5 Advanced settings

5.1 Image settings

The user sends the following edit message via SMS to camera in order to configure the following settings:

5.1.1 Image size
- For master and family users: #32#value# (68)
- If the value is 1, the image size is 160 ×128(pixels). It’s for a standard small screen mobile phone. The size of one MMS image file is 4K.
- If the value is 2, the image size is 320×240(QVGA default). The size of one MMS image file is 9K.
- If the value is 3, the image size is 640 × 480 (VGA). The size of one MMS image file is 33K.

Successful SMS reply
Image size has been reset to.

5.1.2 Image quantity
- For master and family users: #33#quantity# (69)
- The default quantity value is 3, with the default image size 320×240 and the Image capturing interval time 0.5s.
- The quantity value should be in the range of 2-8.
- If the image size is 640×480, up to 2 image quantity can be used.
- The Image size and Image capturing interval time can be changed, see chapter 5.1.1 and 5.1.3.

Successful SMS reply
Number of Alarm images has been set to *.

MMS file name:
- For wireless sensor alarm: Time (Sensor name).
- For motion detection alarm: Time (Motion).

5.1.3 Image interval

- For master and family users: #103#time# (70)
- The Interval time values should be in the range from 3-10.
- Each unit constitutes 100ms.
- The default value is 5, i.e. 0.5 seconds.

成功的 SMS reply
Image capture interval has been set to *.

5.2 Automatic alarm settings

Description
Camera will enter auto-alarm mode and send notification messages (SMS and/or MMS) to the previously set numbers or e-mail addresses in one of the following two circumstances:
- When motion is detected or
- When the wireless sensors are triggered.

The user sends the following edit message via SMS to camera in order to activate the following functions:

5.2.1 Warning tone upon alarm triggering

- For master and family users: #130#1# (71)

成功的 SMS reply
Audio warning - activated
Camera will emit a "Beep ..." tone upon alarm activation.

5.2.2 No warning tone upon alarm (Default)

- For master and family users: #130#0# (72)

成功的 SMS reply
Audio warning - deactivated
Camera will not emit any tone upon alarm activation.

5.2.3 No SMS notification upon alarm

- For master and family users: #11#0# (73)

成功的 SMS reply
SMS notification upon Alarm - disabled.

5.2.4 SMS notification upon alarm (Default)

- For master and family users: #11#1# (74)

成功的 SMS reply
SMS notification upon Alarm - enabled.

5.2.5 No MMS notification upon alarm

- For master and family users: #12#0# (75)

成功的 SMS reply
MMS notification upon Alarm-disabled, alarm with SMS only

5.2.6 MMS notification upon alarm (Default)

- For master and family users: #12#1# (76)

成功的 SMS reply
MMS notification upon Alarm-enabled.

5.2.7 No call notification upon alarm (Default)

- For master and family users: #13#0# (77)

成功的 SMS reply
Call preset number upon Alarm - disabled.
5.2.8 Call notification upon alarm

- For master and family users: #13#1#
  
  **Successful SMS reply**
  Call preset number upon Alarm - enabled.
- If camera alarm automatically, it will dial the master user's number. Live audio stream can be heard upon answering the call.
- If the master user does not answer the call, camera will then dial the family user's numbers in the preset order, until someone answers the call.
- The master user's and the family user's numbers will be called a maximum three times. If it is still no one answers the call, camera will then exit dialing mode automatically.
- If SMS, MMS and calling notification are all activated, when camera alarm automatically, it will firstly send an SMS, secondly an MMS and thirdly a calling notification to preset users.

5.2.9 No MMS notification to pre-set E-mail address (Default)

- For master and family users: #110#0#
  
  **Successful SMS reply**
  Email notification upon alarm – disabled.

5.2.10 MMS notification to pre-set E-mail address

- For master and family users: #110#1#
  
  **Successful SMS reply**
  Email notification upon alarm – enabled.

5.2.11 The alarm-suspension time between two alarms

Once camera alarms automatically, after it finish sending the alarm message, it will be at the alarm-suspension situation for a period time, that is, the camera can not be triggered again within a period time.

The user sends following SMS message to camera in order to set:

**The alarm-suspension time between two alarms:**

#151#Minutes#

- The Minutes values should be in the range from 0-10 minute(s).
- 0 means no alarm-suspension between two alarms.
- Minutes value is default 1 minute.

**Successful SMS reply**

The time between two alarms is:

5.3 Turn on/off LED indicator on the camera

**Authority:** Master, family user.

**Description**

If the LED indicator is on, it will display in different ways to show the working status. If it turns off, it can make camera private and avoid to be found easily.

**Method**

The user sends following SMS message in order to:

- Turn off indicator: #143#0#
- Turn on indicator: #143#1#

**Successful indicator**

- Status LED - OFF
- Status LED - ON

5.4 SMS notification upon the power supply changing

**Authority:** Master and family user.

**Method**
The user sends following SMS message in order to set:

**SMS notification upon the power supply changing (Default):**

```
#144#1#
```

**SMS notification upon power source change - enabled**

User will receive SMS when power supply changing

When external power off, device was run by internal battery, user will receive SMS: *External power - ceased. Running on battery.*

When external AC power was on again, user will receive SMS:

```
No SMS notification upon the power supply changing:

#144#0#
```

**SMS notification upon power source change - disabled**

---

**Chapter 6 Maintenance**

- Store and use the remote camera in suitable temperature. Too high or too low temperature will likely to damage the camera.
- Try to keep the camera and all its accessories dry. Do not store and use it in the bathroom, or other place with high humidity. Do not allow pour water or other liquids into the camera, otherwise, it might cause malfunctions.
- Do not store and use the camera in dusty.
- Do not use alcohol, acetone and other similar solvents to clean it. Wipe it with soft-wet cloth.
- Do not attempt to open it except as instructed. If the camera does not work normally, try to resolve it as the guide of the "general troubleshooting", if to the problem can not be solved, contact with the dealer immediately.

---

**Chapter 7 General Troubleshooting**

<table>
<thead>
<tr>
<th>No.</th>
<th>General Trouble</th>
<th>Possible Reason</th>
<th>Solution</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Can’t start camera (Indicator is working)</td>
<td>Other master is already set in the camera.</td>
<td>Recover to factory default setting.</td>
</tr>
<tr>
<td>2</td>
<td>All functions disable (Indicator is working)</td>
<td>Caller ID presentation or MMS functions of the SIM card do not active, insufficient fee of the SIM card.</td>
<td>Contact network provider to active SIM card function. Pay for the card.</td>
</tr>
<tr>
<td>3</td>
<td>Indicator constant light in red color.</td>
<td>Can’t find or identify the SIM card.</td>
<td>SIM card no install properly: Power off the camera and check it again.</td>
</tr>
<tr>
<td>4</td>
<td>Camera didn’t response of any operation.</td>
<td>Camera work abnormally.</td>
<td>Switch off the power, check SIM card, or reset factory setting.</td>
</tr>
<tr>
<td>5</td>
<td>After starting the camera, indicator flashed in red color and can</td>
<td>Network signal weak or network busy.</td>
<td>Place the camera at other place with strong signal and try again.</td>
</tr>
</tbody>
</table>

---

To prolong the life-span of the battery, connect the camera to the power supply to charge the built-in Lithium battery for 4 hours every 3 months if the camera does not use for long time. Charge the battery at least 12 hours at the first time use to achieve the full performance of the battery.
### GSM REMOTE CAMERA USER MANUAL

#### Appendix 1: SMS command list

<table>
<thead>
<tr>
<th>Category</th>
<th>Function</th>
<th>Command</th>
<th>User</th>
</tr>
</thead>
<tbody>
<tr>
<td>Add a master number to the camera</td>
<td>#00#Device-phone-number#</td>
<td>Master</td>
<td></td>
</tr>
<tr>
<td>Change the master user's number</td>
<td>#14#NewMasterNumber#</td>
<td>Master</td>
<td></td>
</tr>
<tr>
<td>Change the password</td>
<td>#04#oldpassword#newpassword#</td>
<td>Master</td>
<td></td>
</tr>
<tr>
<td>Add a family number</td>
<td>#06#FamilyNumber#</td>
<td>Master</td>
<td></td>
</tr>
<tr>
<td>Add several family numbers</td>
<td>#06#FamilyNumber#...#FamilyNumber#</td>
<td>Master</td>
<td></td>
</tr>
<tr>
<td>Delete a family number</td>
<td>#113#FamilyNumber#</td>
<td>Master</td>
<td></td>
</tr>
<tr>
<td>Delete several family numbers simultaneously</td>
<td>#113#FamilyNumber#...#FamilyNumber#</td>
<td>Master</td>
<td></td>
</tr>
<tr>
<td>Delete all family numbers</td>
<td>#113#</td>
<td>Master</td>
<td></td>
</tr>
<tr>
<td>Add a single emergency number on the camera</td>
<td>#106#EmergencyNumber#</td>
<td>Master</td>
<td></td>
</tr>
<tr>
<td>Add several emergency numbers on the camera</td>
<td>#106#EmergencyNumber#...#EmergencyNumber#</td>
<td>Master</td>
<td></td>
</tr>
<tr>
<td>Delete an emergency number</td>
<td>#107#EmergencyNumber#</td>
<td>Master</td>
<td></td>
</tr>
<tr>
<td>Delete several emergency numbers</td>
<td>#107#EmergencyNumber#...#EmergencyNumber#</td>
<td>Master</td>
<td></td>
</tr>
<tr>
<td>Delete all emergency numbers</td>
<td>#107#</td>
<td>Master</td>
<td></td>
</tr>
</tbody>
</table>

**Note:**
If the problem can't be solved with above guidelines, contact to your local distributor or after service center.
<table>
<thead>
<tr>
<th>Category</th>
<th>Function</th>
<th>Command</th>
<th>User</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Network parameter settings</strong></td>
<td>Set sending MMS message via WAP</td>
<td>(14) #148#0#</td>
<td>Master</td>
</tr>
<tr>
<td></td>
<td>Set sending MMS message via WAP</td>
<td>(15) #148#1#</td>
<td>Master</td>
</tr>
<tr>
<td></td>
<td>Set MMS center</td>
<td>(16) #124#MMScenter#</td>
<td>Master</td>
</tr>
<tr>
<td></td>
<td>Set APN parameters</td>
<td>(17) #125#GatewayIP#WA$PGoatwayPort#HTTP GatewayPort#APN#APNusername#APNpassword#</td>
<td>Master</td>
</tr>
<tr>
<td></td>
<td>Clear existed Network parameter settings, and use SIM card default MMS</td>
<td>#54#</td>
<td>Master</td>
</tr>
<tr>
<td></td>
<td>parameter settings</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Check the current MMS parameter</td>
<td>#55#</td>
<td>Master</td>
</tr>
<tr>
<td></td>
<td>Capture one image and send to the user mobile</td>
<td>(18) #03#</td>
<td>Master Family</td>
</tr>
<tr>
<td></td>
<td>Capture more than one image and send to the user mobile</td>
<td>(19) #03#password#</td>
<td>Guest</td>
</tr>
<tr>
<td></td>
<td>Capture image(s) and send back to user’s pre-set E-mail address</td>
<td>(20) #03#imageQuantity#</td>
<td>Master Family</td>
</tr>
<tr>
<td></td>
<td></td>
<td>(21) #03#Password#ImageQuantity#</td>
<td>Guest</td>
</tr>
<tr>
<td></td>
<td>Capture image(s) and send to appointed mobile or E-mail address</td>
<td>(22) #03#ImageQuantity#1 #</td>
<td>Master Family</td>
</tr>
<tr>
<td></td>
<td></td>
<td>(23) #30#NumberEmailImageQuantity#</td>
<td>Master Family</td>
</tr>
<tr>
<td></td>
<td></td>
<td>(24) #30#Password#NumberEmailImageQuantity#</td>
<td>Guest</td>
</tr>
<tr>
<td></td>
<td><strong>capture images</strong></td>
<td><strong>The interval time for the images capture</strong></td>
<td><strong>Master Family</strong></td>
</tr>
<tr>
<td></td>
<td></td>
<td>#103#value#</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>Value: 3-10</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>Unit: 0.1 second</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>Default value: 5</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>(0.5 second)</td>
<td></td>
</tr>
<tr>
<td></td>
<td>E-mail settings</td>
<td>Add/modify an E-mail address</td>
<td>Master Family</td>
</tr>
<tr>
<td></td>
<td></td>
<td>(25) #108#EmailAddress#</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>Delete all E-mail address</td>
<td>Master</td>
</tr>
<tr>
<td></td>
<td></td>
<td>(26) #109#</td>
<td></td>
</tr>
<tr>
<td></td>
<td><strong>Timed imaging</strong></td>
<td>Enable timing sends MMS images</td>
<td>Master</td>
</tr>
<tr>
<td></td>
<td></td>
<td>(27) #115#1#</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>Set time period to auto-send MMS image</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>(28)#116#WorkDay#StartTime#EndTime#IntervalTime#&amp;Starftime#EndTime3#IntervelTime3#</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>Disable timing send MMS image</td>
<td>Master</td>
</tr>
<tr>
<td></td>
<td></td>
<td>(29) #115#0#</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Remote control</td>
<td>No SMS notification message upon arming or Disarming camera via remote control</td>
<td>Master Family</td>
</tr>
<tr>
<td></td>
<td></td>
<td>(30) #137#0#</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>Send SMS notification message upon arming or disarming camera via remote control</td>
<td>Master Family</td>
</tr>
<tr>
<td></td>
<td></td>
<td>(31) #137#1#</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>Remove all remote controls from the camera</td>
<td>Master</td>
</tr>
<tr>
<td></td>
<td></td>
<td>(32) #111#</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Emergency alarm</td>
<td>Emergency Mode1( to dial)</td>
<td>Master Family</td>
</tr>
<tr>
<td></td>
<td></td>
<td>(33) #39#0#</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>Emergency Mode2( to send SMS and MMS message)</td>
<td>Master Family</td>
</tr>
<tr>
<td></td>
<td></td>
<td>(34) #39#1#</td>
<td></td>
</tr>
<tr>
<td>Category</td>
<td>Function</td>
<td>Command</td>
<td>User</td>
</tr>
<tr>
<td>---------------------------</td>
<td>-----------------------------------------------</td>
<td>--------------------------------</td>
<td>---------------------</td>
</tr>
<tr>
<td>infrared body detector</td>
<td>Activate infrared body detector (default)</td>
<td>(35) #118#1#</td>
<td>Master Family</td>
</tr>
<tr>
<td></td>
<td>Deactivate infrared body detector</td>
<td>(36) #118#0#</td>
<td>Master Family</td>
</tr>
<tr>
<td></td>
<td>Internal infrared body detector link to motion detector</td>
<td>(37)#166#1#</td>
<td>Master Family</td>
</tr>
<tr>
<td>Motion detection</td>
<td>Deactivate motion detection (default)</td>
<td>(38) #22#0#</td>
<td>Master Family</td>
</tr>
<tr>
<td></td>
<td>Activate motion detection</td>
<td>(39) #22#1#</td>
<td>Master Family</td>
</tr>
<tr>
<td></td>
<td>Send five images upon motion detection alarm</td>
<td>(40) #142#1#</td>
<td>Master Family</td>
</tr>
<tr>
<td></td>
<td>Cancel send five images of motion detection alarm</td>
<td>(41) #142#0#</td>
<td>Master Family</td>
</tr>
<tr>
<td></td>
<td>Motion detection sensitivity</td>
<td>#36#value#</td>
<td>Master Family</td>
</tr>
<tr>
<td></td>
<td></td>
<td>value: 1, 2, 3, 4, 5</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>default value: 4</td>
<td></td>
</tr>
<tr>
<td>wireless sensor</td>
<td>Make camera enter loading mode and set corresponding alarm mode</td>
<td>(42) #05#SensorDescription#</td>
<td>Master Family</td>
</tr>
<tr>
<td></td>
<td>Make camera enter loading the “wireless panic button” mode</td>
<td>(43) #196#SensorDescription#</td>
<td>Master Family</td>
</tr>
<tr>
<td></td>
<td>Remove a wireless sensor</td>
<td>(44)#112#SensorDescription...SensorDescription#</td>
<td>Master Family</td>
</tr>
<tr>
<td></td>
<td>Remove all wireless sensors</td>
<td>(45) #112#</td>
<td>Master Family</td>
</tr>
<tr>
<td></td>
<td>All Sensors(include infrared body detector)dislink to motion detector</td>
<td>(47)#166#0#</td>
<td>Master Family</td>
</tr>
<tr>
<td></td>
<td>wireless sensor alarm without sending MMS</td>
<td>#40#0#</td>
<td>Master Family</td>
</tr>
<tr>
<td></td>
<td>wireless sensor alarm to send MMS</td>
<td>#40#1#</td>
<td>Master Family</td>
</tr>
<tr>
<td></td>
<td>Arming camera manually</td>
<td>(49) #01#</td>
<td>Master Family</td>
</tr>
<tr>
<td></td>
<td>Disarming camera manually</td>
<td>(50) #02#</td>
<td>Master Family</td>
</tr>
<tr>
<td></td>
<td>Enable timing arms the camera</td>
<td>(51) #128#1#</td>
<td>Master Family</td>
</tr>
<tr>
<td></td>
<td>Set time period to arm the camera</td>
<td>(52)#129#WorkDay ArmTime...DisarmTime#</td>
<td>Master Family</td>
</tr>
<tr>
<td></td>
<td>Disable timing arm the camera</td>
<td>(53) #128#0#</td>
<td>Master Family</td>
</tr>
<tr>
<td></td>
<td>Activate auto-disarming the camera</td>
<td>(54) #138#1#</td>
<td>Master Family</td>
</tr>
<tr>
<td></td>
<td>Set the value of alarm times when camera is auto-disarming</td>
<td>(55) #139#times#</td>
<td>Master Family</td>
</tr>
</tbody>
</table>

**Command Formatting:**
- **#05#**
- **#196#**
- **#112#**
- **#166#**
- **#142#**
- **#142#0#**
- **#36#value#**
- **#128#1#**
- **#128#0#**
- **#138#1#**
- **#139#times#**
<table>
<thead>
<tr>
<th>Category</th>
<th>Function</th>
<th>Command</th>
<th>User</th>
</tr>
</thead>
<tbody>
<tr>
<td>Arming or disarming camera</td>
<td>Disable the function of auto-disarming the camera</td>
<td>(56) #138#0#</td>
<td>Master Family</td>
</tr>
<tr>
<td></td>
<td>Alarm MMS send to Master and Family</td>
<td>#146#1#</td>
<td>Master</td>
</tr>
<tr>
<td></td>
<td>Alarm MMS send to master Only</td>
<td>#146#0#</td>
<td>Master</td>
</tr>
<tr>
<td></td>
<td>Alarm SMS send to Master and family</td>
<td>#147#1#</td>
<td>Master</td>
</tr>
<tr>
<td></td>
<td>Alarm SMS send to Master Only</td>
<td>#147#0#</td>
<td>Master</td>
</tr>
<tr>
<td></td>
<td>Alarm SMS to emergency number</td>
<td>#51#1#</td>
<td>Master</td>
</tr>
<tr>
<td></td>
<td>Alarm NO SMS to emergency number</td>
<td>#51#0#</td>
<td>Master</td>
</tr>
<tr>
<td></td>
<td>Alarm NO dial emergency number</td>
<td>#50#0#</td>
<td>Master</td>
</tr>
<tr>
<td></td>
<td>Alarm dial emergency number (No including Master number)</td>
<td>#50#1#</td>
<td>Master</td>
</tr>
<tr>
<td>Language setting</td>
<td>English (default)</td>
<td>(57) #127#1#</td>
<td>Master</td>
</tr>
<tr>
<td></td>
<td>Russian</td>
<td>(58) #127#2#</td>
<td>Master</td>
</tr>
<tr>
<td></td>
<td>Spanish</td>
<td>(59)#127#3#</td>
<td>Master</td>
</tr>
<tr>
<td></td>
<td>France</td>
<td>(60)#127#4#</td>
<td>Master</td>
</tr>
<tr>
<td>Check status</td>
<td>Check the present settings and work status of the camera</td>
<td>(61) #07#</td>
<td>Master Family</td>
</tr>
<tr>
<td></td>
<td></td>
<td>(62)#07#password#</td>
<td>Guest</td>
</tr>
<tr>
<td>Getting help</td>
<td>Getting normal command list via SMS</td>
<td>(63) #09#</td>
<td>Master Family</td>
</tr>
<tr>
<td></td>
<td></td>
<td>(64)#09#password#</td>
<td>Guest</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Category</th>
<th>Function</th>
<th>Command</th>
<th>User</th>
</tr>
</thead>
<tbody>
<tr>
<td>Getting help</td>
<td>Getting detailed instruction via MMS</td>
<td>(65) #09#1#</td>
<td>Master Family</td>
</tr>
<tr>
<td></td>
<td></td>
<td>(66) #09#password#1#</td>
<td>Guest</td>
</tr>
<tr>
<td>Reset</td>
<td>Reset the camera</td>
<td>(67) #08#password#</td>
<td>Master</td>
</tr>
<tr>
<td>Image settings</td>
<td>Image size</td>
<td>(68) #32#value#</td>
<td>Master Family</td>
</tr>
<tr>
<td></td>
<td>Value:1,2,3 Default:2</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Image quantity</td>
<td>(69) #33#quantity#</td>
<td>Master Family</td>
</tr>
<tr>
<td></td>
<td>Image interval</td>
<td>(70) #103#time#</td>
<td>Master Family</td>
</tr>
<tr>
<td></td>
<td>Image brightness</td>
<td>#34#value#</td>
<td>Master Family</td>
</tr>
<tr>
<td></td>
<td>Value:1,2,3,4,5 Default:4</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Image contrast</td>
<td>#38#value#</td>
<td>Master Family</td>
</tr>
<tr>
<td></td>
<td>Value:1,2,3,4,5 Default:4</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Image orientation</td>
<td>#35#value#</td>
<td>Master Family</td>
</tr>
<tr>
<td></td>
<td>value:1,2,3 1: Up / Down 2: Left / Right 3: default</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Automatic alarm settings</td>
<td>Warning tone upon alarm triggering</td>
<td>(71) #130#1#</td>
<td>Master Family</td>
</tr>
<tr>
<td></td>
<td>No warning tone upon alarm (Default)</td>
<td>(72) #130#0#</td>
<td>Master Family</td>
</tr>
<tr>
<td></td>
<td>No SMS notification upon alarm</td>
<td>(73) #11#0#</td>
<td>Master Family</td>
</tr>
<tr>
<td></td>
<td>SMS notification upon alarm (Default)</td>
<td>(74) #11#1#</td>
<td>Master Family</td>
</tr>
<tr>
<td></td>
<td>No MMS notification upon alarm</td>
<td>(75) #12#0#</td>
<td>Master Family</td>
</tr>
<tr>
<td></td>
<td>MMS notification upon alarm (Default)</td>
<td>(76) #12#1#</td>
<td>Master Family</td>
</tr>
</tbody>
</table>
### Appendix 2: Main Technical Parameters

<table>
<thead>
<tr>
<th>Category</th>
<th>Function</th>
<th>Command</th>
<th>User</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Automatic Alarm settings</strong></td>
<td>No call notification upon alarm (Default)</td>
<td>(77) #13#0#</td>
<td>Master Family</td>
</tr>
<tr>
<td></td>
<td>Call notification upon alarm</td>
<td>(78) #13#1#</td>
<td>Master Family</td>
</tr>
<tr>
<td></td>
<td>No MMS notification to pre-set E-mail address (Default)</td>
<td>(79) #110#0#</td>
<td>Master Family</td>
</tr>
<tr>
<td></td>
<td>MMS notification to pre-set E-mail address</td>
<td>(80) #110#1#</td>
<td>Master Family</td>
</tr>
<tr>
<td></td>
<td>The alarm-suspension time between two alarms</td>
<td>(81) #151#Minutes#</td>
<td>Master Family</td>
</tr>
<tr>
<td><strong>Lights</strong></td>
<td>Turn off indicator</td>
<td>(82) #143#0#</td>
<td>Master</td>
</tr>
<tr>
<td></td>
<td>Turn on indicator</td>
<td>(83) #143#1#</td>
<td>Master</td>
</tr>
<tr>
<td><strong>Speaker</strong></td>
<td>Speaker-turned ON</td>
<td>#164#1#</td>
<td>Master</td>
</tr>
<tr>
<td></td>
<td>Speaker-turned Off</td>
<td>#164#0#</td>
<td>Master</td>
</tr>
<tr>
<td><strong>Infrared lights</strong></td>
<td>Auto on when light is weak during image capture</td>
<td>#31#0#</td>
<td>Master Family</td>
</tr>
<tr>
<td></td>
<td>Always OFF</td>
<td>#31#2#</td>
<td>Master Family</td>
</tr>
<tr>
<td></td>
<td>Auto on by the site lightness (at the following condition, Motion detection on at arming.)</td>
<td>#31#1#</td>
<td>Master Family</td>
</tr>
<tr>
<td><strong>SMS notification and reply</strong></td>
<td>SMS notification upon the power supply changing (Default)</td>
<td>(84) #144#1#</td>
<td>Master Family</td>
</tr>
<tr>
<td></td>
<td>No SMS notification upon the power supply changing</td>
<td>(85) #144#0#</td>
<td>Master Family</td>
</tr>
</tbody>
</table>

| Power adaptor             | Input: 100V-240V AC 50-60HZ         |
|                          | Output: 5-5.5V DC 1-2A              |
| Work temperature         | -10°C ~ +45°C                       |
| Store temperature        | -20°C ~ +60°C                       |
| Relative Humidity        | 10 ~ 90% (without condensation)    |
| Work band                | EGSM900, DSC1800 (GSM850, PCS1900 Optional) |
| Communication protocols  | GSM PHASE 2/2+ (including data operation) |
| Wireless sensor receiving code | ASK                                |
| Wireless sensor receiving band | 433MHZ or 315MHZ                    |
| Max wireless sensor      | 25 units                             |
| Remote control receiving band | 433MHZ or 315MHZ                    |
| Effective distant of the remote control | 20 Meters (wide area)               |
| Image format             | JPEG                                 |
| Image resolution         | 160x128, QVGA 320x240, VGA 640x480  |
| Camera pixel             | 300K pixel                           |
| Camera Shooting angel    | 70' degree                           |
| Best shooting distance in night | ≤8 Meter                           |
| Lithium battery          | 800 mAh                              |
| Battery standby time     | 24 hours (Affected by network)       |