



V900 Series
GSM REMOTE CAMERA

User Manual

Manual version 1.9

V900 Series GSM Remote Camera

Thank you for purchasing the V900. 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 V900 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 V900 can be viewed either by using your mobile phone. You can also 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 or areas with insufficient lighting.

The V900 is compatible with standard 433MHz (or 315MHz) wireless sensors such as wireless infrared body-, door- 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 V900 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.

This brochure suits for V900-B1 model.

Details of the functioning and advanced operation of this device are described in this instruction manual.

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WARNING

1. Purchase a GSM SIM card (mobile phone card) from GSM network service and install it in the device. This SIM card number is referred as V900 device 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 V900 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.

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. For the latest product information, please visit: <http://www.vision900.com>. 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,

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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.
- Sensor detection: Allowed to load up to 15 sensors such as door magnet sensors, infrared body sensors, smoke sensors, 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 device.
- Built-in lithium battery: Rechargeable battery ensures operation of V900 device amid external power failures.
- Downloadable user manual: This manual can be downloaded at any time via SMS command.

1.2 Sales package contents

- | | |
|----------------------------|---------|
| 1. Remote camera | 1 unit |
| 2. Power adapter (5.5V/2A) | 1 unit |
| 3. Remote control | 2 units |
| 4. User manual | 1 unit |

1.3 Products features

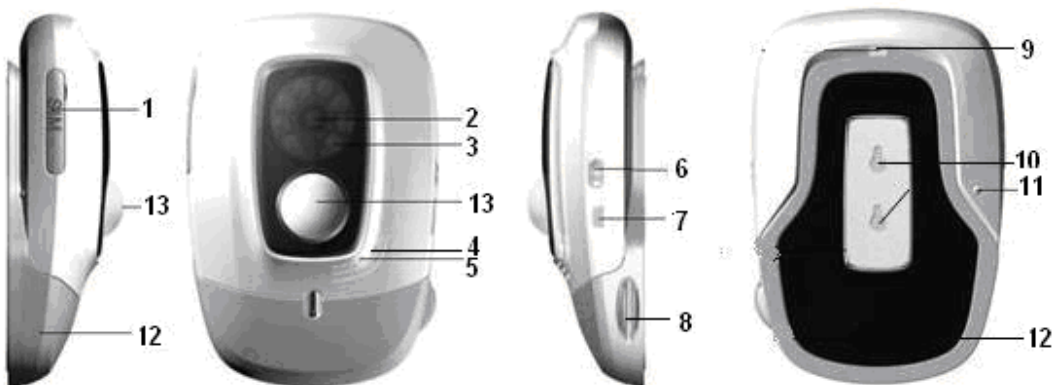


Figure 1: V900-B1 device Instructions

- | | |
|---------------------------------|-------------------------------|
| 1. SIM card Slot (rubber cover) | 7. Power Interface (Mini USB) |
| 2. Camera | 8. Line Holder |
| 3. Infrared lights (8 pcs) | 9. Slot buckle |
| 4. Micphone | 10. Hanging hole |
| 5. Indicator | 11. Setting key |
| 6. Power switch | 12. Base board |
| 13. Infrared body detector | |

Strong suggest: Keep the lens of the camera clean to insure best imaging quality.

1.4 Remote control Instruction

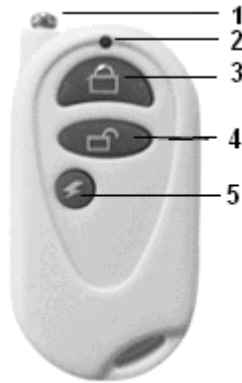


Figure 2: Remote control Instruction

- | | |
|-----------------------------|-----------------------------|
| 1. Antenna | 3. Arm the device button |
| 2. Remote control indicator | 4. Disarm the device button |
| 5. Emergency button | |

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, V900 device will emit “Beep, beep” warning tone and then send a SMS notification message to **Master** user.

1.5 Light indicator

Color	Action	Status
Red	Flash slowly	Searching the network.
	Flash quickly	Sensor alarm, motion detection alarm, infrared body detector alarm.
	Constant Light	Not installed SIM card, or the remote camera damaged.
Green	Constant Light	Armed status.
	Flash slowly	Disarmed status.
	Flash quickly	Processing data.
	Light 2 seconds	Successfully reset factory setting, or loading sensor.
Orange	Flash	Loading remote control status.
Red and Green	Two color lights alternately	Loading sensor

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

Chapter 2 Installation

2.1 Install the SIM card

- Remove the rubber cover from the left side of V900 device.
- Open the SIM card slot by pressing the small dot beside the SIM card slot with the tip of a pencil, and pop open the slot.
- Insert the SIM card into the slot.
- Push the slot back into place.
- Put the rubber cover back in its place.

2.2 Extending the device's base board

- Hold the base of V900 device and pull the top part and the bottom part (base) in opposite directions (i.e. away from each other).
- Then the slot buckle will be pulling open.
- The head of V900 device can now be moved freely and located at any direction.

2.3 Connecting to power adapter

- Connect the adapter to an AC power, and connect the mini-USB plug to the power interface of the V900 device .(See Figure 1 V900 device Instruction,7)
- This device 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, V900 device will notify the user “External power cut. The device is operating on battery.”
- If V900 device is again connected to the external power, or the AC power is available again, the notification will be sent to the user, i.e.” The device is now resuming the use of external power source.”
- **Low battery:** The configure setting can not be saved when V900 device is operating on low battery.

2.4 Mount the V900 device

V900 device can be mounted on a wall (vertically with the screws) or put down on any suitable horizontal surface.

How to 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 device.

- 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 V900 device 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 device. The position of V900 device can then be adjusted until a satisfactory image quality level is reached.

2.5 Power on/ off

Power on:

Operation	Indicator light	Status
Turn the power switch to “On” position.	Red light is on for 3-5 seconds.	
	Red light flashing slowly for about 35 seconds.	
	A “Beep...” tone will be heard.	
	Green light flash slowly, or green light be on constantly.	V900 device is disarmed, or armed.

Power off:

Turn the power switch to downside “Off” position.

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:

Functions		User Type	Master	Families	Guests
Change authority, password			YES	NO	NO
Automatic	Receive SMS		YES	NO	NO
Alarm	Receive MMS		YES	NO	NO

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User Type		Master	Families	Guests
Functions				
	Receive alarm calling	YES	YES	NO
	Get images by E-mail	YES	NO	NO
Emergency alarm	Receive SMS	YES	NO	NO
	Receive MMS	YES	NO	NO
	Receive emergency calling	YES	YES (Only emergency number)	
Call the camera to listen in live voice		YES	YES	NO
Get work status, images, help and instruction by sending SMS command		YES	YES	YES(Password)
Get images by E-mail		YES	YES	NO
Set remote camera by SMS command		YES	YES	NO
Add, modify or delete sensor		YES	YES	NO
Device language setting		YES	NO	NO
Set infrared body detect function		YES	YES	NO

Note

- Any MMS enable mobile phone can receive the images captured by V900 device by sending SMS command with password.
- Any SMS enable mobile phone can control V900 device with the password command.

All the settings of V900 device 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.
- 6) V900 device 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 Define Master user to start the device

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

3.2.1 Add a master number to the device

Authority: **Master** user.

Description

If V900 device is being used for the first time, or V900 device has been reset, the master user's number must be programmed into the device, in order to ensure activation. The following methods can be used:

Method

Method 1:

The user must call V900 device with his/her mobile phone. V900 device will notify the user that the number is currently busy and this indicates that the user's mobile number has been recognized as **Master** number.

Method 2:

The user must edit and send the following SMS to device via his/her mobile phone (the phone number will be the **Master** number) in order to:

Add a master number to the device: #00# (1)

Successful SMS reply

Welcome to the GSM Remote Camera. Your password is 1234.

Failed SMS reply

If a user tries to activate V900 device again, by using method 1, V900 device will hung up the call. No notification message (via SMS) will be sent to the user. By using method 2, V900 device will send a notification via SMS stating "Master user already exists."

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 number is *****.

Then the old master user's number will not be able to control V900 device anymore.

3.2.3 Change password

Authority: **Master** user.

📖 **Description**

In order to ensure your privacy and safety during the use of this device, change the password once V900 device 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 has been 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 device, receive images, load the sensors and remote controls to the device, 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 device's SIM number.

3.3.1 Add a family number

Authority: **Master** user.

✂ **Method**

The user sends following SMS message in order to:

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, V900 device 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 device: (9)
#106#**EmergencyNumber**#

Add several emergency numbers on the device: (10)
#106#**EmergencyNumber**#...#**EmergencyNumber**#

- The **EmergencyNumber** is the phone numbers.
- Up to 9 emergency numbers can be stored on one device.

Successful SMS reply

Added emergency number successfully.

Failed SMS reply

- If 9 emergency numbers (the maximum amount per device) are used on V900 device and the master user attempts to add another one, the following notification message will be sent via SMS: "The Emergency numbers are full. Please delete old numbers."
- If an existing number is being added again, the following notification message will be sent via SMS: "Emergency number already exist."

3.5.2 Delete emergency number

Authority: **Master** user.

Method

The user sends following SMS message in order to:

Delete an emergency number: (11)
#107#**EmergencyNumber**#

Delete several emergency numbers: (12)

#107#EmergencyNumber#...#EmergencyNumber#

Delete all emergency numbers: #107# (13)

☺ **Successful SMS reply**

Emergency number successfully deleted.

3.5.3 Check emergency number

Refer to Chapter 4.15 Check status.

Chapter 4 Basic use and settings

4.1 Network parameter settings

Authority: **Master** user.

Note

In general, the user does **not** need to set the network parameter before use. The correct parameters have been set by the manufacturers according to every country's respective GSM provider. If V900 device is unable to send MMS messages continually, the user can attempt to do the following settings:

4.1.1 Sending MMS message via WAP

Description

- There is a MMS center list on V900 device which including up to 9 GSM network providers in the country. Contact the dealer of device for detail operator list.
- If there are several GSM network providers in a country, in general, their MMS parameters have been preset on V900 device MMS center list. The user needs to choose the correct GSM provider according to the SIM card by using command 14.
- If the SIM card comes from a different GSM provider which is not on the MMS center list, the user must add the new GSM provider's MMS parameter onto the list and then choose it by using command 15, 16 and 17.

Method

The user sends following SMS message in order to:

Choose a network operator's MMS parameter from V900 device MMS list: (14)

#145#name#

- The **name** should be the name of GSM provider, such as Vodafone. For example: #145#vodafone#

Set sending MMS message via WAP: #148#0# (15)

Set MMS center for WAP: #124#MMScenter# (16)

- The **MMScenter** should be the MMS center address of GSM provider. For example: #124#http://mmsc.monternet.com#

Set APN parameters for WAP: (17)

#125#GatewayIP#GatewayPort#APN#APNusername#APNpassword#

For example: #125#10.0.0.172#9201#cmwap#wap#wap#

☺ **Successful SMS reply**

Para:*****.

4.1.2 Sending MMS message via HTTP

Description

- Only one HTTP MMS center can be set onto the device. In general, it has been preset on the device. Contact the dealer for details. The user needs to set the correct GSM provider according to the SIM card by using command 18.
- If the SIM card comes from a GSM provider which is different with the default MMS center, the user must add the new GSM provider's MMS parameter onto V900 device by using command 19 and 20.

Method

The user sends following SMS message in order to set:

Sending MMS message via HTTP: #148#1# (18)

Add a network provider's ISP and MMSC onto the list: (19)

#149#0#ISP#MMSC#

- **ISP** should be the GSM network provider's ISP name. Such as Vodafone or other characters you like. For example: #149#0#0#http://mms#
- **MMSC** should be the MMS center address. Such as MMS center in Russia: http://mmsc:8002

Add APN parameters onto the list: (20)

#150#0#GatewayIP#GatewayPort#APN#APNusername#APNpassword#

For example: #150#0#10.0.0.10#80#mms.t-mobile.cz#mms#mms#

4.2 To capture images

Authority:

Master/ family / guest send SMS to the camera to get the MMS image or send the image(s) to an appointed mobile or E-mail address.

Master/ family member call the camera to get the images.

Master/ family send SMS command to the camera to send MMS image to an E-mail address (Need to pre-set E-mail address).

4.2.1 To 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.
- V900 device will reply SMS notification: "Image capturing request received. The device is busy sending the MMS messages."
- 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 device, 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# (21)

For guest users: #03#password# (22)

4.2.2 To capture more than one image and send to the user's mobile

Authority: **Master**, **family** and **guest** users.

Method

The user sends following SMS message in order to:

Capture more than one image and send to the user mobile:

For **master** and **family** users: #03#ImageQuantity# (23)

For **guest** users: #03#Password#ImageQuantity# (24)

- **Image quantity** should be in the range of 1-8 when the image size is set at 160×128 or 320×240 (See 5.5.1 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, V900 is sending the MMS image.

- The user will then receive the MMS message momentarily.
- The file format of the sent MMS images is: “Model-Time.jpg”. For example, a file with name of V900-094843.jpg means the image is captured with a V900 device 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 5.1.8 image Interval).

4.2.3 To 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: (25)

#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, V900 is sending the MMS image.

4.2.4 To 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#** (26)

For **Guest** user: **#30#Password#NumberOrEmail#ImageQuantity#** (27)

- **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

Sending to **** with * pictures.

- The file format of the sent MMS images is: "Model-Time.jpg". For example, a file with name of V900-094843.jpg means the image is captured with a V900 device 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 5.1.8 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

The user sends following SMS message in order to:

Set time period to auto-send MMS image: (31)

**#116#WorkDay#StartTime1#EndTime1#IntervalTime1#...#StartTime3#EndTi
me3#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 “8”.

The following table contains the descriptions of each value:

Value	Corresponding day
0	Everyday
1	Monday
2	Tuesday
3	Wednesday
4	Thursday
5	Friday
6	Saturday
7	Sunday
8	Monday to Friday

- **StartTime and EndTime**: 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 StartTime and EndTime should be in the same day, and the EndTime must be later than StartTime.
- **IntervalTime**: This consists of 2 or 3 digits and has values in the range of “10” to “480” minutes.

☺ **Successful SMS reply**

Parameter of timing sends MMS is:*****

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# (32)

☺ **Successful SMS reply**

Timing sends image via MMS deactivated.

4.5 Remote control

4.5.1 Add remote control(s) to the device

Description

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

Method

Indicator	Operations	Status
Green, flashing or constantly light.	1. Press and hold the Set key for 2 seconds	Indicator light turns to orange (Learning mode)
Orange, flashing	2. Press any button on the remote control (with battery inside) to send a signal to V900.	V900 will emit a “Beep” tone and indicator will turn green for 2S. (Added successfully.)
Orange, flashing	3. Repeat step2 to load another new remote camera.	
Orange, flashing	4. Press the Set key to exit the learning mode or waiting for 15 seconds to auto-exit.	Indicator light turns green, flashing or constantly light. (Exit learning mode)


Note

During the process of learning new remote control, if the battery of remote control runs out, V900 device 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 V900 device

- When  is pressed, the indicator light on V900 device will turn green. This indicates that V900 device is in armed mode.
- Any motion detected by V900 device 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 V900 device

- When  is pressed, the indicator light on V900 device will slowly flash

4.6 Emergency Alarms

Authority: **Master** and **family** users.

Description

When the emergency button (panic button) on the remote camera is pressed, V900 device will go into emergency mode to alarm. There are two modes of the emergency alarm could be set on the device:

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, V900 device will dial the **master** user's number as well as the pre-set emergency numbers. V900 device will repeat this process 3 times, until someone answers. If, after 3 attempts, there is no answer, V900 device 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, V900 device 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# **(36)**

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

Successful SMS reply

Set emergency alarm notification by dialing successfully.

Set emergency alarm notification by SMS and MMS successfully.

4.7 Listen in live voice

4.7.1 Call the camera to listen in

Authority: **Master** and **family** users.

Method

The user calls V900 device 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 V900 device at a time.

4.7.2 Listening in upon emergency alarm

Description

- When V900 device 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, V900 device will automatically dial the other emergency numbers sequentially. This notification process will be repeated three times and if still unanswered, V900 device will automatically exit the dialing mode.

4.7.3 Listening in upon automatically alarm

Description

- When V900 device is in armed status and if the user preset the auto-alarm way as calling the user (Refer to chapter 5.2.12 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 listen in the monitoring area by answering the call.
- If the **Master** user does not answer the call, V900 device will dial the other pre-set **Family** number until the call is answered. This notification process will be repeated three times and if still unanswered, V900 device will automatically exit the dialing mode.

4.8 Infrared body detector

Authority: **Master** and **family** users.

Description

When V900 device is working under arming mode, if someone approach to the detecting area, the built-in infrared body detector will trigger the device alarm.

Method

The user sends following SMS message in order to:

Activate infrared body detector (default): #118#1#

(38)

Deactivate infrared body detector: #118#0# **(39)**

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 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

When the device is operating on low battery, the infrared body detector will be deactivated and the configure setting can not be saved.

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 V900 device is armed. i.e., arming V900 device enables the motion.
- The motion detection feature is also functional when V900 device 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 V900 device 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 V900 device 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 setting): #22#0# (40)

Activate motion detection: #22#1# (41)

Successful SMS reply

Motion detection de-activated.

Motion detection activated.

4.9.2 Sensitivity of motion detection

Authority: **Master** and **family** users.

Method

The user sends following SMS message to V900 device in order to set:

Motion detection sensitivity: #36#*grade*# (42)

- The ***grade*** should be in range of 1- 5. The larger the value, the stronger the sensitivity of the motion detection function is. The default value is 4. At this level (4), V900 device can detect human body motion.

Successful SMS reply

Motion detection sensitivity has been set successfully:

4.9.3 Condition of motion detection alarm

Authority: **Master** and **family** users.

Description

The user could set the condition of motion detection alarm. V900 device will keep detecting the motion every two seconds. V900 device could trigger motion detection alarm after it detects a certain times (the value of ***Detected Times***) motion during a certain minutes' period (the value of ***Time Period***).

Method

The user sends following SMS message in order to set:

Condition of motion detection: (43)

#141#***DetectedTimes#TimePeriod#***

- **Motion Times** should be in the range of 1-255 times.
- **Time Period** should be in the range of 1-255 minutes.

☺ **Successful SMS reply**

Set parameter successfully, quantity: **, time: ** minutes.

4.10 Wireless sensor(s)

Authority: **Master** and **family** users.

📖 **Description**

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

4.10.1 Add a wireless sensor and set corresponding alarm mode

Authority: **Master** and **family** users.

📖 **Description**

- Up to 15 wireless sensors can be loaded onto one V900 device.

🔪 **Method**

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

Make V900 device enter loading mode and set corresponding alarm mode:

#05#***SensorDescription#*** (44)

- **Sensor description** is used for identify different sensors affiliated with each device. It can be numbers and letters.
- **Sensor description** could be empty. If SMS command is only #05#, V900 device will recognize the sensors in number order been added to the device. For example, if V900 device has been added 2 wireless sensors, it can recognize a new sensor with a **sensor description** of 3 automatically. When the sensor triggers V900 device alarm, V900 device will send out SMS alarm message only.
- Up to 15 characters can be typed in **sensor description**.

Set the sensor alarm mode:

- If you add * at front of **sensor description**, V900 device will send out MMS and SMS alarm message.
E.g. #05#*door2# when “door2” sensor triggers V900 device alarm, V900 device will send out SMS and MMS alarm messages.
 - Otherwise, if the first character of **sensor description** is not *, V900 device will send via SMS only.
E.g. #05#door1# when “door1” sensor triggers V900 device alarm, V900 device will send out SMS alarm message only.
3. When V900 device has received the SMS command, it will emit a “Beep...” tone and the indicator will flash red and green alternately. V900 device will then send a notification message via SMS to the user(s) stating “Waiting to load wireless sensor, make the sensor work immediately.”
 4. The user needs to make the sensor work and transmit signal to be studied by V900 device.
E.g. For a wireless door magnet, open and close the door once to send the signal to the camera.
 5. When V900 device receives the sensor signal, it will emit a “Beep...” tone and send a notification message via SMS to the user(s) stating “*** has been successfully loaded”
 6. To exit the loading mode manually, press the **set** key of the device, V900 device will emit a “Beep...” tone and exit the loading mode.

☹ **Failed SMS reply**

- If V900 device failed to load the sensor, the indicator light on V900 device will flash red and green alternately for approximately 60 seconds, V900 device will revert back to the preset armed/disarmed mode.
- When the maximum amount of sensors is already loaded, if a user attempts to load one more sensor onto the device, V900 device will send a SMS message “Sensor list is full. Please delete old sensor at first.”

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: **(45)**

#112#**SensorDescription**#...#**SensorDescription**#

- **Sensor description** should be the existing sensor which the user wants to

remove.

Remove all wireless sensors: #112# **(46)**

☺ **Successful SMS reply**

Sensor deleted successfully.

4.11 Arming or disarming V900 device manually

4.11.1 Arming V900 device manually

Authority: **Master** and **family** users.

Description

- When V900 device is arming, all loaded sensors, infrared body detector and motion detector are in work status. V900 device will automatically send alarm message or making a phone call once it is triggered.
- When the indicator light on the device slowly flashes green, it shows that the device is disarmed. Use following methods to arm the device:


Method

Method 1:

The user sends following SMS message in order to:

Arming V900 device manually: #01# **(47)**

Method 2:

Press  on the remote control, whilst pointing it in the direction of V900 device. V900 device will emit a “Beep” tone, to indicate that arming V900 device is successfully.

☺ **Successful SMS reply**

Defense mode activated.

And the indicator light will 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


V900 device, 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).

4.11.3 Disarming V900 device manually

Authority: **Master** and **family** users.

Description

When V900 device is working under disarmed mode, all loaded wireless sensor, integrated infrared body detector and motion detection function could not work.

But it will send an SMS/MMS notification or make phone calls only when  button on remote control is pressed.


Method

Method 1:

The user sends following SMS message in order to:

Disarming V900 device manually: #02# (48)

Method 2:

- Slide antenna out the remote control.
- Press the  button on the remote control, whilst pointing it in the direction of the device.

Successful SMS reply

Defense mode de-activated.

V900 device will emit a “Beep...” tone, and the indicator light will flash green.

4.12 Timed arming the device

Authority: **Master** and **family** users.

4.12.1 Enable timing arms the device

Method

The user sends following SMS message in order to:

Enable timing arms the device: #128#1# (49)

Successful SMS reply

Timing defense activated.

Then V900 device will arming automatically according to the settings.

4.12.2 Set time period to arm the device

Method

The user sends following SMS message in order to:

Set time period to arm the device: (50)

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

- Up to 3 periods be allowed per workday. Each period time should set by **ArmTime, DisarmTime**.
- **WorkDay**: one digit, the values lie in the range of “0” to “8”.

The following table contains the descriptions of each value:

Value	Corresponding day
0	Everyday
1	Monday
2	Tuesday
3	Wednesday
4	Thursday
5	Friday
6	Saturday
7	Sunday
8	Monday to Friday

- **ArmTime and DisarmTime**: 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 ArmTime and DisarmTime should be in the same day, and the DisarmTime must be later than ArmTime during the same period.

Successful SMS reply

Set timing defense successfully, the parameter is:*****

4.12.3 Disable timing arm the device

Method

The user sends following SMS message in order to:

Disable timing arm the device: #128#0# (51)

Successful SMS reply

Timing defense de-activated.

4.14 Device language setting

Authority: **Master** user.

Description

V900 device supports both English and Spanish (or the user's first language) display.

Method

The user sends following SMS message in order to set:

The user's first language (or Spanish) version: #127#0# **(55)**

English version: #127#1# **(56)**

Successful 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 V900 device:

- For **master** and **family** users: #07# **(57)**

- For **guest** users: #07#**password**# **(58)**

Successful SMS reply

- V900 device will reply via MMS, depending on which status is currently set on. Such as:

Device (dis)armed.(No) SMS notification when alarm is triggered.(No) MMS notification when alarm is triggered.Motion detection (de)activated.Timing send MMS (de)activated.Infrared light on(off).Image size 160x128/ 320x240/ 640x480.Send image quantity when alarm.Image brightness.Image compressibility.Motion detection sensitivity.Master number.Master email.Family email.Wireless sensor.Emergency number. Language version.

4.16 Getting help

Authority: **Master**, **family** and **guest** user.

Description

The user can send SMS to V900 device 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 “V900 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# (59)
- For **guest** users: #09#password# (60)

Getting detailed instruction via MMS:

- For **master** and **family** users: #09#1# (61)
- For **guest** users: #09#password#1# (62)

4.17 Resetting the device

Authority: **Master** user.

Description

- This function resets all programmed settings to their original values.
- After V900 device 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 device.
- After resetting the device. 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 device

- Switch V900 device off. It must remain off for a minimum of 20 seconds.
- Press and hold the **set** button and then switch V900 device back on.
- The indicator light will be green for 2-4 seconds after which it will flash red.
- If the resetting of V900 device is successful, a “Beep ...” tone will be emitted.

Method 2: Reset via SMS command

V900-171154(Sensor 1).

- For motion detection alarm: Model-Time (Motion detection), such as V900-171154 (motion detection).

5.1.3 Image brightness

- For **master** and **family** users: #34#value# (66)
- The value should be in the range from 1-5. Value 1 is the darkest and value 5 is the brightest.
- The default value is 4.

☺ **Successful SMS reply**

Image brightness has been set successfully: *

🔔 **Note**

This function needs to be used carefully as it may lower the image quality.

5.1.4 Image direction

- For **master** and **family** users: #35#value# (67)
- The values below change the image orientation so if the camera is located upside down or sideways, then the image that you will see on the website is still the right way up.
- **Value 1** ($\overline{\text{E}}$) is to be used if the camera is fixed up side down with the stand fixed above the camera. E.g. stand is screwed to a ceiling, and the camera is 'hanging down'.
- **Value 2** ($\overline{\text{T}}$) means that the camera stand is sideways to the camera. For instance the stand is screwed to the wall and the camera is at right angle to the wall, and protrudes from the wall sideways.
- **Value 3**($\overline{\text{F}}$) means that the camera is fixed on a level surface like a table. Default value is 3.

☺ **Successful SMS reply**

Image direction has been set successfully: *

5.1.5 Image contrast

- For **master** and **family** users: #38#value# (68)

- The value should be in the range of 1-5.
- The default value is 4.

Successful SMS reply

Image contrast has been set successfully: *

Note

This function needs to be used carefully as it may lower the image quality.

5.1.6 Image compressibility

- For **master** and **family** users: #119#**value**# **(69)**
- The **value** should be in the range from 1- 4. The higher the value, the bigger the image files and the slower the image transfer speed.
- The default value is 1, means the image compressibility is 20 times.
- Value is 2, means the image compressibility is 14 times.
- Value is 3, means the image compressibility is 10 times.
- Value is 4, means the image compressibility is 5 times. (Invalid for 640×480).

Successful SMS reply

Set image compressibility successfully.

Note

This function needs to be used carefully as it may lower the image quality.

5.1.7 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.

Successful SMS reply

Capture image interval time has been set successfully: *

5.2 Automatic alarm settings

Description

V900 device 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 V900 device in order to activate the following functions:

5.2.1 Warning tone upon alarm triggering

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

☺ **Successful SMS reply**

Warn sound mode activated.

V900 device 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)

☺ **Successful SMS reply**

Warn sound mode de-activated.

V900 device will not emit any tone upon alarm activation.

5.2.3 No SMS notification upon alarm

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

☺ **Successful SMS reply**

Alarm set without SMS notification successfully.

5.2.4 SMS notification upon alarm (Default)

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

☺ **Successful SMS reply**

Alarm set with SMS notification successfully.

5.2.5 No MMS notification upon alarm

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

☺ **Successful SMS reply**

Alarm set without MMS notification successfully.

5.2.6 MMS notification upon alarm (Default)

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

☺ **Successful SMS reply**

Alarm set with MMS notification successfully.

5.2.7 No call notification upon alarm (Default)

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

☺ **Successful SMS reply**

Alarm set without calling notification successfully.

5.2.8 Call notification upon alarm

- For **master** and **family** users: #13#1# (78)

☺ **Successful SMS reply**

Alarm set with calling notification successfully.

- If V900 device 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, V900 device 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, V900 device will then exit dialing mode automatically.
- If SMS, MMS and calling notification are all activated, when V900 device 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# (79)

☺ **Successful SMS reply**

Alarm set without MMS notification to an E-mail address.

5.2.10 MMS notification to pre-set E-mail address

- For **master** and **family** users: #110#1# (80)

☺ Successful SMS reply

Alarm set with MMS notification to an E-mail address successfully.

- If the MMS notifications is set to be send to both a mobile phone number as well as to an e-mail address, the MMS image will firstly be sent to the mobile phone number and then to the E-mail address.

5.3 Turn on/off LED indicator on the device

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 V900 device private and avoid to be found easily. There are two methods to turn on/off the indicator light:

🔧 Method

- **Method 1:** If V900 device is in normal working status of arming or disarming, press the **set** key on the V900 device for more than 4 seconds, the indicator will be closed or opened.
- **Method 2:**

The user sends following SMS message in order to:

Turn off indicator: #143#0# (81)

Turn on indicator: #143#1# (82)

☺ Successful SMS reply

Status LED close.

Status LED open.

5.4 Turn on/off Infrared lights during arming the device

Authority: **Master** and **family** users.

📖 Description

- Infrared lights are default turned off. V900 device will not turn on the IR light when the environment lightness is not strong enough.
- Anyway, the infrared lights will turn on automatically when V900 device

captures image.

- If the infrared (IR) lights are turned on, V900 device can auto-control the IR lights according to the environment lightness when it works on arming mode. If the environment brightness is not strong enough, V900 device will turn on the IR light. Otherwise, it will turn off IR lights.

Method

The user sends following SMS message in order to:

Turn off infrared lights during arming the device: #31#0# **(83)**

Turn on infrared lights during arming the device: #31#1# **(84)**

Successful SMS reply

Infrared lights turned off.

Infrared lights activated. The device can auto-control the lights.

5.5 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# **(85)**

No SMS notification upon the power supply changing: #144#0# **(86)**

Successful SMS reply

(Not) Send SMS notification when power supply changed.

Chapter 6 Maintenance

- Store and use the remote camera in suitable temperature. Too high or too low temperature will likely to damage the device.
- Try to keep the V900 device 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.

- To prolong the life-span of the battery, connect the camera V900 device 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.

Chapter 7 General Troubleshooting

No.	General Trouble	Possible Reason	Solution
1	Can't start camera (Indicator is working)	Other master is already set in the camera.	Recover to factory default setting.
2	All functions disable (Indicator is working)	Caller ID presentation or MMS functions of the SIM card do not active, insufficient fee of the SIM card.	Contact network provider to active SIM card function. Pay for the card.
3	Indicator constant light in red color.	Can't find or identify the SIM card.	SIM card no install properly: Power off the camera and check it again.
4	Camera didn't response of any operation.	V900 device work abnormally.	Switch off the power, check SIM card, or reset factory setting.
5	After starting the camera, indicator flashed in red color and can not turn to green.	Network signal weak or network busy.	Place the camera at other place with strong signal and try again.
		SIM card PIN code actives.	Close the PIN code.
		SIM card invalid.	Contact with local operator to check of it.
6	Remote control can't work. Or action slowly. Or control distance range shortened.	Camera low power.	Connect external power to recharge the battery.
		Remote control low power.	Change remote control battery.
		Didn't pull out the antenna.	Pull out remote control antenna.
		Two remote control work simultaneously.	Try only one remote control.
7	Can't add new remote control or wireless sensor	The remote control or sensor already studies successfully.	Exit the loading status.
		The sensor quantity is already reaches its max number.	Delete old sensors before add new sensor.

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No.	General Trouble	Possible Reason	Solution
		Didn't set master user number	Set master number before add sensor.
8	Can't start the camera after long time supply with the battery.	Battery runs out of power.	Connect the camera to external AC power and charge for at least one hour, then, restart camera.

Note: If the problem can't be solved with above guidelines, contact to your local distributor or after service center.

Chapter 8 Main Technical Parameters

Power adaptor	Input: 100V~240V/50Hz	Output: 5.5V DC
Work temperature	-10°C~+45°C	
Store temperature	-20°C~+60°C	
Relative Humidity	10-90%, without condensation	
Working band	EGSM900、DCS1800 (GSM850、PCS1900 Optional)	
Communication protocols	GSM PHASE 2/2+ (including data operation)	
Wireless sensor receiving code	ASK	
Wireless sensor receiving band	433MHz or 315 MHz	
Max wireless sensor	15 units	
Remote control receiving band	433MHz or 315 MHz	
Effective distant of the remote control	10 meters (wide area)	
Image format	JPEG	
Image resolution	160×128、QVGA320×240、VGA640×480	
Camera pixel	300K pixel	
Camera Shooting angel	68 degree	
Best shooting distance at night	≤6 meters	
Lithium battery (Inner)	800mAh	
Battery standby time	24 hours (Affected by network)	

Appendix: SMS commands list

Category	Function	Command	User
Define the user	Add a master number to the device	(1) #00#	Master
	Change the master user's number	(2) #14# <i>NewMasterNumber</i> #	Master
	Change the password	(3) #04# <i>oldpassword</i> # <i>newpassword</i> #	Master

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Category	Function	Command	User
	Add a family number	(4) <u>#06#FamilyNumber#</u>	Master
	Add several family numbers	(5) <u>#06#FamilyNumber#...#FamilyNumber#</u>	Master
	Delete a family number	(6) <u>#113#FamilyNumber#</u>	Master
	Delete several family numbers simultaneously	(7) <u>#113#FamilyNumber#...#FamilyNumber#</u>	Master
	Delete all family numbers	(8) <u>#113#</u>	Master
	Add single emergency number on the device	(9) <u>#106#EmergencyNumber#</u>	Master
	Add several emergency numbers on the device	(10) <u>#106#EmergencyNumber#...#EmergencyNumber#</u>	Master
	Delete an emergency number	(11) <u>#107#EmergencyNumber#</u>	Master
	Delete several emergency numbers	(12) <u>#107#EmergencyNumber#...#EmergencyNumber#</u>	Master
	Delete all emergency numbers	(13) <u>#107#</u>	Master
	Network parameter settings	Choose a network operator's MMS parameter from V900 device MMS list	(14) <u>#145#wap#name#</u>
Set sending MMS message via WAP		(15) <u>#148#0#</u>	Master
Set MMS center for WAP		(16) <u>#124#MMScenter#</u>	Master
Set APN parameters for WAP		(17) <u>#125#GatewayIP#GatewayPort#APN#APNusername#APNpassword#</u>	Master
Sending MMS message via HTTP		(18) <u>#148#1#</u>	Master
Add a network provider's ISP and MMSC onto the list		(19) <u>#149#0#ISP#MMSC#</u>	Master
Add APN parameters onto the list		(20) <u>#150#0#GatewayIP#GatewayPort#APN#APNusername#APNpassword#</u>	Master
capture images	Capture one image and send to the user mobile	(21) <u>#03#</u>	Master Family
		(22) <u>#03#password#</u>	Guest
	Capture more than one image and send to the user mobile	(23) <u>#03#ImageQuantity#</u>	Master Family
		(24) <u>#03#Password#ImageQuantity#</u>	Guest
	Capture image(s) and send back to user's pre-set E-mail address	(25) <u>#03#ImageQuantity#1#</u>	Master Family
	Capture image(s) and send to appointed mobile or E-mail address	(26) <u>#30#NumberOrEmail#ImageQuantity#</u>	Master Family
		(27) <u>#30#Password#NumberOrEmail#ImageQuantity#</u>	Guest

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Category	Function	Command	User
		<u>antity#</u>	
E-mail settings	Add/modify an E-mail address	(28) <u>#108#EmailAddress#</u>	Master Family
	Delete all E-mail address	(29) <u>#109#</u>	Master
Timed imaging	Enable timing sends MMS images	(30) <u>#115#1#</u>	Master
	Set time period to auto-send MMS image	(31) <u>#116#WorkDay#StartTime1#EndTime1#IntervalTime1#...#StartTime3#EndTime3#IntervalTime3#</u>	Master
	Disable timing send MMS image	(32) <u>#115#0#</u>	Master
Remote control	No SMS notification message upon arming or disarming V900 device via remote control	(33) <u>#137#0#</u>	Master Family
	Send SMS notification message upon arming or disarming V900 device via remote control	(34) <u>#137#1#</u>	Master Family
	Remove all remote controls from the device	(35) <u>#111#</u>	Master Family
Emergency alarm	Emergency Mode1(to dial)	(36) <u>#39#0#</u>	Master Family
	Emergency Mode2(to send SMS and MMS message)	(37) <u>#39#1#</u>	Master Family
infrared body detector	Activate infrared body detector (default)	(38) <u>#118#1#</u>	Master Family
	Deactivate infrared body detector	(39) <u>#118#0#</u>	Master Family
Motion detection	Deactivate motion detection	(40) <u>#22#0#</u>	Master Family
	Activate motion detection (default)	(41) <u>#22#1#</u>	Master Family
	Motion detection sensitivity	(42) <u>#36#grade#</u>	Master Family
	Condition of motion detection	(43) <u>#141#DetectedTimes#TimePeriod#</u>	Master Family
wireless sensor	Make V900 device enter loading mode and set corresponding alarm mode	(44) <u>#05#SensorDescription#</u>	Master Family
	Remove a wireless sensor	(45) <u>#112#SensorDescription#...#SensorDescription#</u>	Master Family

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Category	Function	Command	User
	Remove all wireless sensors	(46) <u>#112#</u>	Master Family
Arming or disarming V900 device	Arming V900 device manually	(47) <u>#01#</u>	Master Family
	Disarming V900 device manually	(48) <u>#02#</u>	Master Family
	Enable timing arms the device	(49) <u>#128#1#</u>	Master Family
	Set time period to arm the device	(50) <u>#129#WorkDay#ArmTime1#DisarmTime1# ..#ArmTime3#DisarmTime3#</u>	Master Family
	Disable timing arm the device	(51) <u>#128#0#</u>	Master Family
	Activate auto-disarming the device	(52) <u>#138#1#</u>	Master Family
	Set the value of alarm times when V900 device is auto-disarming	(53) <u>#139#times#</u>	Master Family
	Disable the function of auto-disarming the device	(54) <u>#138#0#</u>	Master Family
language setting	The user's first language (or Spanish) version	(55) <u>#127#0#</u>	Master
	English version	(56) <u>#127#1#</u>	Master
Check status	Check the present settings and work status of the device	(57) <u>#07#</u>	Master Family
		(58) <u>#07#password#</u>	Guest
Getting help	Getting normal command list via SMS	(59) <u>#09#</u>	Master Family
		(60) <u>#09#password#</u>	Guest
	Getting detailed instruction via MMS	(61) <u>#09#1#</u>	Master Family
		(62) <u>#09#password#1#</u>	Guest
Reset	Reset the device	(63) <u>#08#password#</u>	Master
Image settings	Image size	(64) <u>#32#value#</u>	Master Family
	Image quantity	(65) <u>#33#quantity#</u>	Master Family
	Image brightness	(66) <u>#34#value#</u>	Master Family
	Image direction	(67) <u>#35#value#</u>	Master Family
	Image contrast	(68) <u>#38#value#</u>	Master Family

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Category	Function	Command	User
	Image compressibility	(69) <u>#119#value#</u>	Master Family
	Image Interval	(70) <u>#103#time#</u>	Master Family
Automatic alarm settings	Warning tone upon alarm triggering	(71) <u>#130#1#</u>	Master Family
	No warning tone upon alarm (Default)	(72) <u>#130#0#</u>	Master Family
	No SMS notification upon alarm	(73) <u>#11#0#</u>	Master Family
	SMS notification upon alarm (Default)	(74) <u>#11#1#</u>	Master Family
	No MMS notification upon alarm	(75) <u>#12#0#</u>	Master Family
	MMS notification upon alarm (Default)	(76) <u>#12#1#</u>	Master Family
	No call notification upon alarm (Default)	(77) <u>#13#0#</u>	Master Family
	Call notification upon alarm	(78) <u>#13#1#</u>	Master Family
	No MMS notification to pre-set E-mail address (Default)	(79) <u>#110#0#</u>	Master Family
	MMS notification to pre-set E-mail address	(80) <u>#110#1#</u>	Master Family
Lights	Turn off indicator	(81) <u>#143#0#</u>	Master Family
	Turn on indicator	(82) <u>#143#1#</u>	Master Family
	Turn off infrared lights during arming the device	(83) <u>#31#0#</u>	Master Family
	Turn on infrared lights during arming the device	(84) <u>#31#1#</u>	Master Family
SMS notification and reply	SMS notification upon the power supply changing (Default)	(85) <u>#144#1#</u>	Master Family
	No SMS notification upon the power supply changing	(86) <u>#144#0#</u>	Master Family
Temperature sensor	Get temperature and humidity from sensor	<u>#159#</u> V900 device will reply the environment temperature and humidity value via SMS to the user. If V900 device did not receive any	Master Family

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Category	Function	Command	User
		data from the sensor before, then it will reply 0,0.	
	Set temperature range to arm the temperature sensor	<p><u>#163#Data1#Data2#</u> Data1: the temperature low limit. It can not be under -40°C. Data2: the temperature upper limit. It can not be higher than 70°C. If the environment temperature is lower than data1 or higher than data2, V900 device will send the temperature value via SMS to the Master user and disarm the temperature sensor. It needs to arm the temperature sensor again.</p>	Master Family

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