



TUTA-GW2
3G VIDEO ALARM CAMERA

User Manual

TUTA-GW2 3G video alarm camera

The TUTA 3G camera. This camera is a GSM/WCDMA device and uses SIM/USIM card. It is a remote controlled image-capturing device consisting of a microphone, infrared lights and a high quality 300,000-pixel camera lens. The TUTA 3G 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 TUTA 3G camera also supports WCDMA network. You can call the camera and watch the video of monitoring area directly with your WCDMA video-call supported mobile phone. The built-in high-light infrared LED's allows the camera to capture clear images, even in dark environment. If users select the TUTA 3G camera with memory card, the images and video can be stored in the camera. When the users want to check images or video, they can connect the camera with computer via USB cable.

The TUTA 3G 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, video calls or E-mail.

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

This brochure suits for TUTA-GW2 model.

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WARNING

1. Purchase a **SIM/USIM** card (mobile phone card) from 3G network service and install it in the camera. This **SIM/USIM** card number is referred as camera number on this brochure.
2. User should activate the **MMS** function and **Caller ID Presentation** function of **SIM/USIM** card, and deactivate **PIN** code of the **SIM/USIM** card. Contact your **SIM/USIM** card provider for more information.
3. Change the original password at the beginning use. Be sure to keep the password and **SIM/USIM** 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 3G alarm 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.

Declaration of conformity

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.i-tuta.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.
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Chapter 1 Features and accessories

1.1 Main functions

- Multi-mode alarm: Camera can send alarm notification in 4 ways – send to mobile phone by SMS, MMS and video phone-call (Need 3G network support), also can send photos to E-mail address.
- Send photos at anytime to mobile phone or to E-mail address: The camera sends images to MMS enabled mobile phones or to E-mail address with color display for you to watch anytime and anywhere GSM network coverage and MMS service coverage.
- Infrared light: The built-in high-light infrared LED's allows the camera to capture clear images in dark environments.
- Built-in microphone: User can listen in the monitoring area via mobile phone by calling the camera.
- Check on-spot video: Any WCDMA mobile phone can call the camera and watch the on-spot video.
- Built-in infrared body heat detector.
- Built-in memory card: Alarm images or video can be stored.
- Preset one phone number to receive alarm messages.
- Remote control: Control and configure the camera with SMS commands from a mobile phone.
- Easy installation: Wireless connection.
- Built-in Lithium battery: Rechargeable battery ensures operation of camera amid external power failures.

1.2 Package contents

- | | |
|-------------------------------------|------|
| 1. Camera host(including 1 TF card) | 1 pc |
| 2. Power adapter | 1 pc |
| 3. USB cable | 1 pc |
| 4. User manual | 1 pc |
| 5. Soft disc | 1 pc |

1.3 TUTA-GW2 host instruction

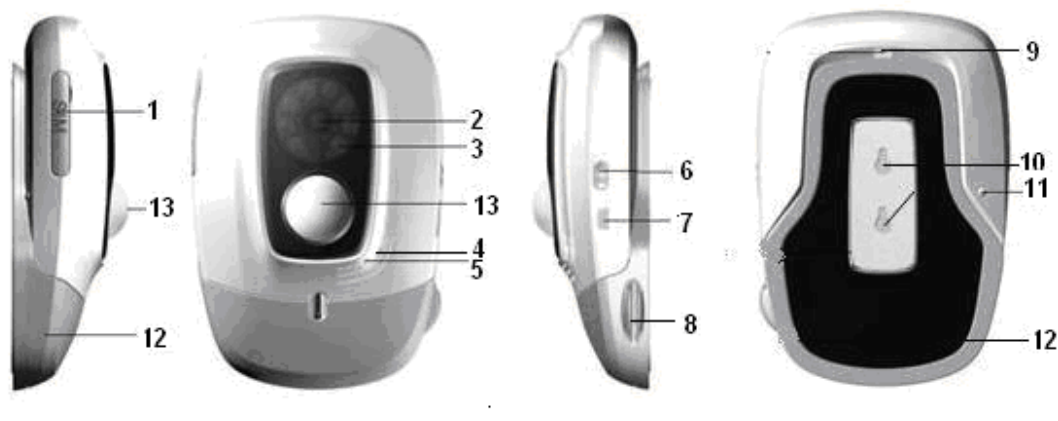


Figure 1: TUTA-GW2 camera Instructions

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

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

1.4 Light indicator

| Color | Action | Status |
|-------|----------------|--|
| Red | Flash slowly | Searching the network. |
| | Flash quickly | motion detection alarm or Infrared body detects alarm |
| | Constant Light | Not installed SIM/USIM card, or the remote camera damaged. |
| Green | Constant Light | Defense status, Activating the auto-alarm function. |
| | Flash slowly | Cancel defense status. Canceling the auto-alarm function. |
| | Flash quickly | Data processing during sending alarm or in standby status or voice call. |

| Color | Action | Status |
|-------|-------------------|-------------------------------------|
| | Light two seconds | Successfully reset factory setting. |

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

2. Under normal working conditions, the indicator can be closed absolutely: Under normal working conditions, press SET key for 5-10 seconds, the indicator will open/close. A “DI” tone can be heard after setting successfully.

3. If you press SET key for more than 10 seconds, the camera will be reset.

Chapter 2 Installation

2.1 Install the SIM/USIM card

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

2.2 Extending the camera's base board

- Hold the base of the camera 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 the camera 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 camera .(See Figure 1)
- 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 cut. The device is operating 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, i.e.” The device is now

resuming the use of external power source.”

- **Low battery:** The configure setting can not be saved when the camera is operating on low battery.

2.4 Mount the camera

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

2.5 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/WCDMA network's signal strength may affect the image, live voice, video 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.

2.6 Power ON/OFF

Power on:

| Operation | Indicator light | Status |
|---|---|-----------------------------------|
| Turn the power switch to “On” position. | Red light flashing slowly | |
| | Green light flashing slowly, or green light be on constantly. | The camera is disarmed, or armed. |
| | A “Beep...” tone will be heard. | |

Power off:

Turn the power switch to downside “Off” position.

The battery will be charged if external power is not cut off.

Chapter 3 Define the user

3.1 User Authorization level

- There are two levels, each with a different password and authorization level, namely **Administrator** and **Operators**. Both's authority is realized by password.
- Default password for **operators** is 1234, for **administrator** is 5678.
- Furthermore, the camera can preset one **alarm number** to receive alarm. Every time the camera sends alarm, the alarm number will receive.

Table 3.1 the difference in authority for users:

| <div>User Type</div> <div>Function</div> | Administrator | Operators | Alarm number |
|---|---------------|------------|--------------|
| Receive alarm | No | No | Yes |
| Listen to the monitoring area | No | Yes | No |
| Set alarm number, E-mail address,time,MMS parameters,data account | No | Yes | No |
| Arm/Disarm the camera | No | Yes | No |
| Check status, receive images by mobile phone or E-mail | No | Yes | No |
| Set alarm-mode | No | Yes | No |
| Change password | Yes | No | No |
| Reset the camera | Yes | No | No |

Note:

1. Any MMS enabled mobile phone can receive the images captured by the camera by sending SMS command with password.
2. Any SMS enabled mobile phone can control the camera with the password command.
3. Any WCDMA supported mobile phone can check on-spot video with the password command.

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

About the SMS command:

1. All the SMS commands are composed with password and words, password must be input before the words for each command. Different passwords have different authority.(See Appendix: SMS command list).
2. **Administrator** and **operator** users' SMS command format: password commands
3. The password must be a four-digit number.
4. The original password for operators is 1234, while for administrator is 5678.
5. The maximum digits that are allows for the phone number is 16.
6. The camera will reply to the user after it receives the SMS command.

Note:

For SMS commands, between not only password and word but also word and word must have one space character.

3.2 Define alarm number

& Description

If the camera is being used for the first time, or it has been reset, the **alarm number** must be programmed into the camera, in order to ensure activation.

I Method

The user must edit and send the following SMS to device via mobile phone in order to:

Add/Modify the alarm number to the camera: (1)

PSWD phone number **alarm number**

- The **PSWD** is a four digit number password. The original password is 1234.
- The **alarm number** is a mobile phone number. Only one **alarm number** can be stored on one camera. The last setting is available.
- For example, to set 18700000000 as alarm number, the command is
1234 phone number 18700000000

3.3 Change password

& Description

In order to ensure your privacy and safety during the use of this device, change the password once the camera is being used. Any mobile phone can send following commands to the camera to change the password.

I Method

The user sends following SMS message in order to:

Change the administrator password: (2)

OldAdminPswd change admin passcode ***NewAdminPswd***

Change the operator password: (3)

OldOprtPswd change password ***NewOprtPswd***

- The ***NewAdminPswd*** and ***NewOprtPswd*** are four digit numbers.
- The original ***OldAdminPswd*** is 5678.
- The original ***OldOprtPswd*** is 1234.
- For example, to change administrator password to 9123, the command is:
5678 change admin passcode 9123

Chapter 4 Basic use and settings

4.1 The regulation of camera time

If the camera is being used for the first time, or the camera has been reset, the user must regulate the camera time according to the current date.

I Method

The user sends following SMS message in order to:

Regulate the camera time: PSWD set time DD/MM/YYYY (4)

- The ***PSWD*** is four digit numbers password.
- The ***DD/MM/YYYY*** is current date.
- For example, to set system time as 31st March, 2010, the command is:
1234 set time 31/03/2010

4.2 Network parameter settings

% 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/WCDMA 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/WCDMA provider's MMS parameter must be added onto the camera.

I Method

Set MMS parameters:

(5)

PSWD MMS param URL,ConnectionType,Proxy,Port,DataAccountID

For example: 1234 MMS param <http://mmsc.monternet.com>,1,10.0.0.172,80,0

- The **URL** should be the MMS center URL address of GSM/WCDMA provider.
- **ConnectionType** should be the code of connection type when sending MMS message:
 - 0--- Sending MMS via HTTP (no proxy)
 - 1--- Sending MMS via HTTP (have proxy)
 - 2--- Sending MMS via WEB
- **DataAccountID** should be the code of connection type when sending MMS message.

Set data account parameters:

(6)

PSWD data account DataAccountID,APN,AuthorType,UserName,Password

- Parameters **UserName**, **Password** can be empty. **DataAccountID** number is from 0 to 9;
- **Author type**: Authentication type for a PDP context
 - 0---No authentication
 - 1---PAP authentication
 - 2---CHAP authentication
- Data account default APN is: 0-cmwap, 1-cmnet, 2-3gnet, all author types are 0, user name and password are empty.
- All parameters need to have comma in between, if comma is forgotten to add, the camera will remind reset the parameters.
- Please contact product supplier if other data account is needed.

4.3 E-mail settings

% Note

This setting is necessary only if the user want to see image by E-mail.

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 for receiving image

& Description

- Only one E-mail address can be set as receiving address.

- If the user wishes receiving image by an appointed E-mail address when needed, see 4.4.2 send image to E-mail address.
- If the user wishes the camera sending the alarm image to appointed E-mail address, see 5.1.10 MMS notification to pre-set E-mail address.

I Method

The user sends following SMS message in order to:

Add/modify a receiving E-mail address: (7)

password email address Email

- **Email** should be the E-mail address which the user appointed to receive image.
- For example: password email address xmyouthnet@gmail.com

4.3.2 Add/ modify an E-mail address for sending image

I Method

The user sends following SMS message in order to:

Add/modify a sending E-mail address: (8)

password email param AccountName, AccountAddress, UserName, Password, ReceiveServer, SendServer, ReceivePort, SendPort, DataAccountID

- **AccountName, AccountAddress, UserName, Password, ReceiveServer, SendServer, ReceivePort, SendPort, DataAccountID** should be the E-mail parameters which offered by network server.
- All parameters need to have a comma in between; parameters should be set completely so that the images can be received.

4.4 Send image

Authority:

Any mobile phone can send SMS command to the camera to get the MMS image(s) or send the image(s) to an appointed E-mail address.

4.4.1 Send image to user's mobile

I Method

The user sends following SMS message in order to:

Send one on-spot image to the user mobile: PSWD send mms (9)

Send storage images to the user mobile: PSWD send mms ImageQuantity (10)

- The **PSWD** should be four digit numbers password.

- **ImageQuantity** should be in the range of 1-6. But the actual images quantity depends on the history image quantity stored on the camera TF memory card, because the camera can send maximum all history images on memory card and one on-spot image to email box.
- The image size is 640×480. Each image file is within 100KB.
- For example: 1234 send mms 2

4.4.2 Send image to E-mail address

The E-mail address must be set at first. See chapter 4.2 E-mail settings for more information regarding this function.

I Method

The user sends following SMS message in order to:

Send one on-spot image to an E-mail address: PSWD send Email (11)

Send storage images to an E-mail address: (12)

PSWD send Email ImageQuantity

- The **PSWD** should be four digit numbers password.
- **ImageQuantity** should be in the range of 1-6. But the actual images quantity depends on the history image quantity stored on the camera TF memory card, because the camera can send maximum all history images on memory card and one on-spot image to email box.
- The on-spot image size is 640×480, within 100KB. The other image size is depends on the history images on camera storage.
- For example: 1234 send email 2

4.5 Check on-spot video

& Description

Make a video call to the camera, after connecting with the camera, input 4 digits valid password (default user password 1234), users can watch the on-spot video on mobile phone.

I Method

How to set up video monitoring:

1. **Make a video call:** Use a WCDMA supported mobile phone to make a video call to the camera.

2. **Type in the password:** After connecting with the camera, your mobile phone will show password dialog box (see following picture), 4 digits valid password must be input for continuing.



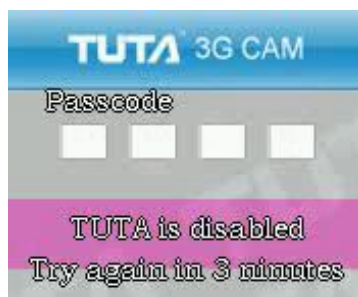
Mobile phone keys of the video calling menu are as bellows:

| DTMF(KEY) | Function |
|---------------------|---|
| 0,1,2,3,4,5,6,7,8,9 | 0,1,2,3,4,5,6,7,8,9 |
| # | Delete one character or return to previous menu |
| * | Yes or enter next menu |

If the password is wrong, it will indicate:



If you input 5 times incorrect password, you have to ring off and redial the camera after 3 minutes. If the camera is dialed within 3 minutes, it will show not available and ring off. See bellowing interface:



% Note

For any interface, if you don't input within 30 seconds, camera will ring off automatically.

3. **Watch the on-spot vide:** If the input password is verified correctly, users can watch and control the on-spot video through following keys on mobile phone:

| DTMF(KEY) | Functions for video calling |
|--|-----------------------------|
| 3 | Reduce |
| 1 | Enlarge |
| 0 | Enter menu |
| 2 | Motor turns upward |
| 8 | Motor turns on left* |
| 4 | Motor turns on right* |
| Remark: Functions with * need hardware supporting. | |

Main menu:

Main menu interface:



Main menu keys functions list:

| DTMF(KEY) | Function |
|-----------|--|
| 0 | |
| 1 | Set and cancel defense switch |
| 2 | Open/Close video calling beep |
| 3 | Open/Close 3G network |
| 4 | Enter modifying alarm number interface |
| 5 | Enter modifying users password interface |

Modifying alarm number interface:



Modifying user's password interface:



4.6 Listen in the monitoring area

4.6.1 Call the camera and listen in

I Method

The user calls the camera with any mobile phone after which it will beep for inputting password. If the input password is verified correctly, users can listen to the on-spot monitoring area.

- If you don't input the 4-digit password within 30 seconds, camera will ring off automatically.
- If the input password is wrong, the camera will remind to input again.
- If you input 5 times incorrect password, you have to ring off and redial the camera after 3 minutes. If the camera is dialed within 3 minutes, it will show not available and ring off.

4.6.2 Listening in 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 5.1.8 Call notification upon alarm for more details) a call will automatically go through to the preset alarm number when the camera alarms. The user can communicate with the monitoring area by

answering the call.

- If the **alarm number** user does not answer the call, the camera will redial the for two times.

4.7 Infrared body detector

& Description

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

I Method

The user sends following SMS message in order to:

Activate infrared body detector (default): **PSWD** ir alarm on (13)

Deactivate infrared body detector: **PSWD** ir alarm off (14)

- The **PSWD** should be four digit numbers password.
- For example: 1234 ir alarm off

% Note

When the camera is operating on low battery, it'll send SMS message to notify "low voltage". The infrared body detector will be deactivated and the configure setting can not be saved.

4.8 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 the camera is armed and motion detection is activated.

% Note

- If the 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 the camera is operating in low battery.

I Method

The user sends following SMS message in order to:

Deactivate motion detection (default setting): **PSWD** motion off (15)

Activate motion detection: **PSWD** motion on (16)

- The **PSWD** should be four digit numbers password.
- For example: 1234 motion on

4.9 Arming or disarming the camera

4.9.1 Arming the camera

& Description

- When the camera is arming, the built-in infrared body detector is in work status. The camera will automatically send alarm message by preset way once it is triggered.
- When the indicator light on the camera slowly flashes green, it shows that the camera is disarmed. Use following methods to arm the camera:

I Method

The user sends following SMS message in order to:

Arming the camera: **PSWD** arm (17)

- The **PSWD** is four digit numbers password.
- For example: 1234 arm

4.9.2 Disarming the camera

& Description

When the camera is working under disarmed mode, integrated infrared body detector could not work.

I Method

Disarming the camera: **PSWD** disarm (18)

- The **PSWD** is four digit numbers password.
- For example: 1234 disarm

4.10 Check status

& Description

The user can check camera memory card by computer, check camera working status by mobile phone.

I Method

Check memory card by computer:

Connect the camera with computer via USB cable; make sure the camera is in turn-on status. Computer will recognize the removable disk; there is one media file when you open the removable disk. Under the media file, there are many sub files named by recording time, including video and images.

Check camera working status by mobile phone:

Use any mobile phone sends following commands to the camera in order to:

Check the present settings and work status of the camera: (19)

PSWD status

J Successful reply

The replying contents will be shown as actual status:

```
Smart sensor Status [[DD/MM/yyyy hh:mm:ss]
3G:y [where y=0-5 = 3G reception 0= none, 1=poor-5 best]
2G:y [where y=0-5= 2G reception 0= none, 1=poor-5 best]
[Armed/Disarmed]
Ext power on/ Ext power off
Battery:[yy]%
Call number:[ 123456789/not set]
Call on alarm:[on/off]
SMS on alarm:[on/off]
MMS on alarm:[on/off]
Email on alarm:[on/off]
Motion detection: [on/off]
Beep:[on/off]
IR DETECT: [on/off]
```

4.11 Resetting the camera

& Description

- If the remote camera setting is wrong, or fail to work even after restarting the camera, the following operation will enable the remote camera restore to the

factory setting (clear of all users' setting), and resume to regular work status.

- After the camera is reset, it will need to reset the **alarm number**. Refer to chapter 3.2 Define alarm number.

% Note

This function needs to be used carefully as it also erases the setting values.

Method

Method 1: Reset via the camera

- Turn the power switch to “Off” position. It must remain off for a minimum of 20 seconds.
- Turn on the camera, press and hold the reset key at the rear of camera for more than 10 seconds.
- Release the reset key when a “Beep...” tone can be heard, at the same time, the indicator will light in green for 2 seconds, which means restoring factory setting successfully. The indicator will restore to original status after resetting the camera.

Method 2: Reset via SMS command

Any mobile phone sends following SMS command to camera in order to:

Reset the camera: *PSWD* reset (20)

- The **PSWD** is four digit numbers password.
- For example: 5678 reset
- After receiving the command, camera will send out reminding message to indicate resetting successfully.

Chapter 5 Advanced settings

5.1 Alarm settings

& Description

The camera will enter auto-alarm mode and send notification messages to the previously set **alarm number** or E-mail addresses once the built-in sensor is detected.

Any mobile phone can send following commands to the camera to set alarm ways.

The **PSWD** on the command is four digit numbers password:

5.1.1 Warning tone upon alarm triggering (Default)

PSWD beep on

(21)

- For example: 1234 beep on
- After successful set, the camera will sound “Di...” tone when alarming. If warning tone and phone call are set at the same time, warning tone will close once the phone goes through.

5.1.2 No warning tone upon alarm

PSWD beep off

(22)

- For example: 1234 beep off
- The camera will not emit “Beep ...” tone upon alarm activation.

5.1.3 No SMS notification upon alarm

PSWD send sms off

(23)

- For example: 1234 send sms off

5.1.4 SMS notification upon alarm (Default)

PSWD send sms on

(24)

- For example: 1234 send sms on

5.1.5 No MMS notification upon alarm

PSWD send mms off

(25)

- For example: 1234 send mms off

5.1.6 MMS notification upon alarm (Default)

PSWD send mms on

(26)

- For example: 1234 send mms on

5.1.7 No call notification upon alarm

PSWD make call off

(27)

- For example: 1234 make call off

5.1.8 Call notification upon alarm (Default)

PSWD make call on (28)

- For example: 1234 make call on
- **Note:** The camera will make video call first to alarm number, if video call doesn't work, it will make voice call. If the video call function is closed, the camera will make voice call directly.

5.1.9 No MMS notification to pre-set E-mail address

PSWD send email off (29)

- For example: 1234 send email off

5.1.10 MMS notification to pre-set E-mail address (Default)

PSWD send email on (30)

- For example: 1234 send email on.

5.1.11 No 3G video call notification upon alarm

PSWD 3g call off (31)

- For example: 1234 3g call off

5.1.12 3G video call notification upon alarm (Default)

PSWD 3g call on (32)

- For example: 1234 3g call on.

5.1.13 Need password verification when receiving alarm

PSWD outgoing call verification on (33)

- For example: 1234 outgoing call verification on.

5.1.14 No need password verification when receiving alarm (Default)

PSWD outgoing call verification off (34)

- For example: 1234 outgoing call verification off.

5.2 Recording function

& Description

The camera must be with TF card to realize this function.

When the recording function is set, camera will save the images and video in TF card to users to check the on-spot recording. Image and video can't be taken simultaneously. Illustrations of recording function are as bellows:

5.2.1 Record images

- A new file will be set up automatically for root directory media of TF card before taking images every time. The camera will take 60 images for one file; frequency is 1 image per second. This kind of file is called "Video Byte", the name of this file is VB_MMDDHHMMSS_NUM. For example, VB_0701082921_01 means date 1st July, time is 08:29:21, 01 stands for the first file set up at this time. When sending alarm, the camera will take 60 images continuously, the previous 5 images size are 320*240 pixels, the rest 55 images size are 640*480 pixels, and the photoing frequency is 1 image per second. If you send command to ask the camera to send images, the camera will send 1 image with size 640*480 each time.
- During the process of capturing images, if a video call is made, the camera will stop taking images. The video or images will be saved in a update "Video Byte" file if the video call is ended or file space is full. If there is no "Video Byte" file under the root directory media, the camera will set up one automatically.
- Normal telephone call won't affect images taking.
- If the free space is not enough, the oldest "Video Byte" will be deleted.
- If the "Video Byte" file recording is begun, new triggered recording conditions won't effect until the recording is finished.

5.2.2 Triggered conditions of recording function

- Trigged effective alarm
- Video call (Refer to Chapter 4.5. Check on-spot video for more details)
- Capture on-spot images

5.2.3 Check the recording files

Check the recording files by computer:

- A Driver Program needs to be installed on computer before you check the recording. Installing instructions please refer to the attached disk.
- After the driver software is installed, connect the camera with computer via USB cable (make sure the camera is turned on), after several seconds, your computer will detect removable disk automatically, click the disk to check recording images and video.

Note: Under the removable disk mode, all the images and video won't be saved in TF card. When you finish checking the recording, the camera must be disconnected with computer, turned off the power switch, and turned on again to restore the TF card recording function.

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

Chapter 7 General troubleshooting

| No. | General Trouble | Possible Reason | Solution |
|-----|------------------------------|--|--|
| 1 | Camera can't send MMS images | MMS functions of the SIM/USIM card do not active, insufficient fee of the SIM/USIM card, wrong MMS | Contact network provider to active SIM card function. Pay for the card. Ask network provider to offer correct MMS parameters |

| No. | General Trouble | Possible Reason | Solution |
|-----|---|--|--|
| | | parameters setting. | and set the parameters according to SMS commands list. |
| 2 | Camera can't connect video call | Camera or operating mobile phone is not with WCDMA card; insufficient fee of the SIM card; calling type is not video call. | Contact network provider to active SIM card function. Pay for the card. Choose the right calling type (Video call) when operate your mobile phone. |
| 3 | Camera didn't response of any operation. | Camera works abnormally. | Switch off the power, check SIM card, or reset factory setting. |
| 4 | 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. |
| 5 | Email can't receive images | Email address is not preset or email address parameters are not set correctly. | Set correct email address parameters according to SMS commands list. |
| 6 | Can't find the removable disk when checking the recording | Camera is not turned on or connected with computer incorrectly; the Driver Program is not installed correctly. | Turn on the camera; check the connection with computer; install the Driver Program software. |

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

Appendix: SMS commands list

| Category | Function | Command | User |
|---------------------|---|---|----------|
| Define alarm number | Add/Modify the alarm number to the device | (1) <u>PSWD phone number alarm number</u> | Operator |
| Change password | Change the administrator password | (2) <u>OldAdminPswd change admin passcode NewAdminPswd</u> | Admin |
| | Change the operator password | (3) <u>OldOpptPswd change password NewOpptPswd</u> | |
| Time | Regulate the camera time | (4) <u>PSWD set time DD/MM/YYYY</u> | Operator |
| MMS parameters | Set MMS parameters | (5) <u>PSWD MMS param URL, ConnectionType, Proxy, Port, DataAccountID</u> | Operator |

| Category | Function | Command | User |
|------------------------|--|---|----------|
| Data account | Set data account | (6) <u>PSWD</u> data account <u>DataAccountID,APN,AuthorType,UserName,Password</u> | Operator |
| E-mail settings | Add/modify a receiving E-mail address | (7) <u>password</u> email address <u>Email</u> | Operator |
| | Add/modify a sending E-mail address | (8) <u>password</u> email param <u>AccountName, AccountAddress, UserName, Password, ReceiveServer, SendServer, ReceivePort, SendPort, DataAccountID</u> | Operator |
| Send on-spot image | Send one on-spot image to the user mobile | (9) <u>PSWD</u> send mms | Operator |
| | Send images to the user mobile | (10) <u>PSWD</u> send mms <u>ImageQuantity</u> | Operator |
| | Send one on-spot image to an E-mail address | (11) <u>PSWD</u> send Email | Operator |
| | Send images to an E-mail address | (12) <u>PSWD</u> send Email <u>ImageQuantity</u> | Operator |
| Infrared body detector | Activate infrared body detector (default) | (13) <u>PSWD</u> ir alarm on | Operator |
| | Deactivate infrared body detector | (14) <u>PSWD</u> ir alarm off | Operator |
| Motion detection | Deactivate motion detection (default setting) | (15) <u>PSWD</u> motion off | Operator |
| | Activate motion detection | (16) <u>PSWD</u> motion on | Operator |
| Arm/Disarm the camera | Arming the camera | (17) <u>PSWD</u> arm | Operator |
| | Disarming the camera | (18) <u>PSWD</u> disarm | Operator |
| Check status | Check the present settings and work status of the camera | (19) <u>PSWD</u> status | Operator |
| Reset | Reset the camera | (20) <u>PSWD</u> reset | Admin |
| Alarm settings | Warning tone upon alarm triggering (Default) | (21) <u>PSWD</u> beep on | Operator |
| | No warning tone upon alarm | (22) <u>PSWD</u> beep off | Operator |

| Category | Function | Command | User |
|------------------------|--|--|----------|
| | No SMS notification upon alarm | (23) <u>PSWD send sms off</u> | Operator |
| | SMS notification upon alarm (Default) | (24) <u>PSWD send sms on</u> | Operator |
| | No MMS notification upon alarm | (25) <u>PSWD send mms off</u> | Operator |
| | MMS notification upon alarm (Default) | (26) <u>PSWD send mms on</u> | Operator |
| | No call notification upon alarm | (27) <u>PSWD make call off</u> | Operator |
| | Call notification upon alarm (Default) | (28) <u>PSWD make call on</u> | Operator |
| | No MMS notification to pre-set E-mail address | (29) <u>PSWD send email off</u> | Operator |
| | MMS notification to pre-set E-mail address (Default) | (30) <u>PSWD send email on</u> | Operator |
| | No 3G video call notification upon alarm | (31) <u>PSWD 3g call off</u> | Operator |
| | 3G video call notification upon alarm (Default) | (32) <u>PSWD 3g call on</u> | Operator |
| Receive alarm settings | Need password verification when receiving alarm | (33) <u>PSWD outgoing call verification on</u> | Operator |
| | No need password verification when receiving alarm | (34) <u>PSWD outgoing call verification off</u> | Operator |

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