# GSM-SD REMOTE CAMERA

**MANNAL**

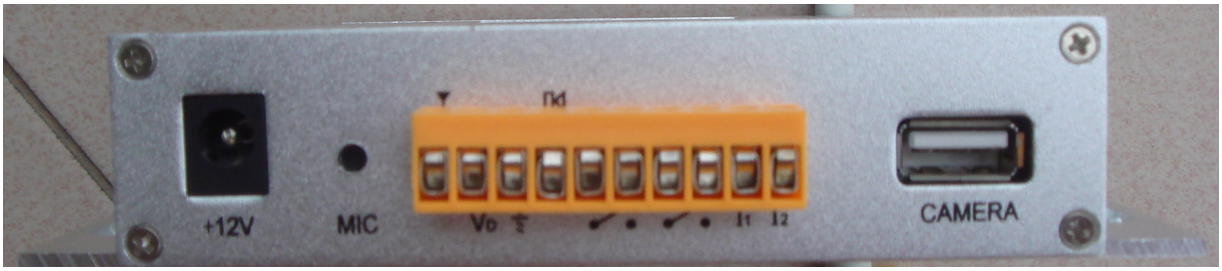

The Excellent GSM + Camera alarm system bases on the GSM network, integrates the communication technology, can automatic screen a photo with the intruder or burglar, and send it to cell phone. So the user can see who break into home or office or factory or shop and so on. This is the unique products of the security products!

# Users' Manual of GSM Home Alarm System with Photo-taken

## Features:

1. Adopt three bands, GSM 900Mhz, 1800Mhz and 1900Mhz, can alarm remotely without the limit of distance.
2. Support GSM/CDMA, and English and Chinese SMS to control system and motion detecting and arm/ disarm
3. Can capture thief 's photo and send to owner's cell phone or email box, which provides evidence for case.
4. Can support the function of motion detecting with alarm.
5. The picture to be transmitted can be adjusted to QCIF (160x128), CIF (320x240), VGA (640x480).
6. Can pre-set 5 groups of alarm Phone Numbers with room No., can call the owner, town police and monitoring center.
7. Listen-in function: Can clearly hear the voice, the sound of footstep, dug and safebreaker.
8. Can make sure the safety of your home with password operation and control the alarm system by remote controllers and SMS to make it arm, disarm, listen-in and photo-taking.
9. Can control the switch of light, air-condition and heater or cooker with the three Output ports by mobile phone or telephone.
10. Control panel has three input ports, which can be connected with three wired detectors.
11. There is a siren port for shift between silence and siren.
12. Can work with all kinds of wireless detectors or sensors, such as wireless PIR Sensors, beams, gas/smoke detectors, wireless panic buttons
13. All the alarm system is wireless, no need to set wire and easy for installation.
14. Special suitable for storeroom, garage and the places where there is no telephone line.

## How to identify the port of rear of control panel?




1. 10-pin ports: **ANT; Vd; GND; SPEAKER; RELAYa1; RELAYa2; RELAYb1; RELAYb2;L2; L1**

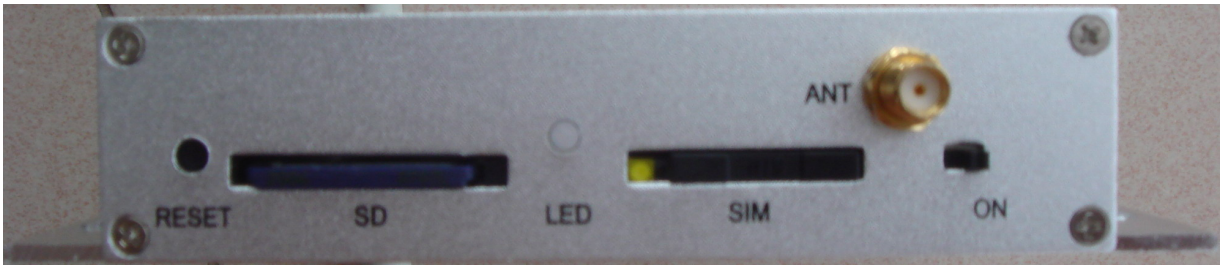
   The first port—Signal line,Enhanced wireless signal from the receiver;
   The second port—Power output:12V 300MAH;
   The third port—Ground line;
   The third and fourth port—siren, audio output, big wire siren;
   The fifth and sixth ports— output contro, Users can remotely control air-conditioning

switches, such as rice cookers;

The seventh and eighth ports---- It will keep closed for three minutes when alarming, it can connect power of video device;

The ninth and tenth ports----input for wired detectors.

2. Press the yellow point next to the SIM port, it will be out for the SIM Card out and input.
3. Reset key : The alarm system will come back to the original statement when keeping pressing the RESET and connecting the power supply at the same time. The original password is 123456. At this moment, all coded information has been deleted
4. Antenna: You should connect antenna before insert the power supply.




## How can I start the base?

1. Delete all telephone Numbers and messages in the SIM card memory or buy a new card.Insert SIM card into the base.
2. Connect CAMERA with the base. And connect antenna with the base.
3. Insert the power supply, The signal status LED turns to red and last for 20, and it will start to search GSM network. After 20 seconds, the signal status LED is flashing in orange and the alarm system begins to read the information of the SIM memory. It will enter into the status of disarm and indicator Signal LED is go still green. It will be turned to be green and flashing in the status of alarm when you use controller to set the base in alarming.

## How can I setup the alarm phone number and SMS?

1. you can send the message to the base to setup the 5 group alarm phone number and 6 kinds of SMS .The format:password #operation code # content #

   123456#51# 13905950001#. save first group alarm phone number into the base.

   123456#52# 13905950002#. save second group alarm phone number into the base.

   123456#53# 13905950003#. save third group alarm phone number into the base.

   123456#54# 13905950004#. save fourth group alarm phone number into the base.

   123456#55# 13905950005#. save fifth group alarm phone number into the base.
2. you can send the message to the base to setup 6 kinds of SMS

   The first three message are for wired port I1, I2. The fourth message is for picture-motion detecting alarm; the fifth message for wireless detectors (door sensors, PIR Sensors and remote controllers) activated alarm. The sixth is use controllor for emergency help. Every message cannot be more than 10 Chinese characters or 20 English characters. The over-characters will be deleted automatically. If no preset message or all message has been deleted, the base will use default message as follows:

   Port I 1 alarm, the message is: ZONE 1 Activated.

   Port I 2 alarms, the message is: ZONE 2 Activated.

Picture motion detecting alarm, it is: Image Activated.

Wireless detectors alarming, the message is: Wireless Activated.

Emergency help alarm, the message will be: Emergency call.(it cann't be changed)

You can rewrite it:

123456#81# Front door open #. save first group message into the base.

123456#82# middle door open#. save second group message into the base.

123456#83# Back door open#. save third group message into the base.

123456#84# Canera working#. save fourth group message into the base.

123456#85# Window open#. save fifth group message into the base.

## How can I test the base alarm out?

1. Under the arming state, with green LED on, any end of input (I1, I2) touches ground, or wireless detectors has been activated, the alarm system will send alarm information by SMS, MMS and dialing out stored telephone numbers.
2. It will send SMS and Pictures (MMS) before dial alarm phone numbers. If the SMS and MMS has been closed or limited, It can only dial out the preset telephone numbers. You can make them disarm with remote controllor
3. .When there is alarm, you can answer the phone for listen-in, remote control and press 3# 1# to make the base to play the siren and press 3# 0# to stop it for listen-in function. Note: please first enter the passwords (original password is 123456#) before you do it.

## How Can I control the base by calling the host phone number (SIM Card number)?

Call in the base and enter password 123456# ,then enter into the programming process of remote control, and then input the following command to set the base:

| Com | Function | Com | Function |
|---|---|---|---|
| 1#1# | Alarm | 1#0# | Disalarm * |
| 2#--# | Apply for pictures(1—20), take 2#1#, Apply for one picture | | |
| 3#1# | Sounder immediately | 3#0# | Stop Sounder |
| 4#1# | Start to listen-in | 4#0# | Stop to listen-in |
| 11#1# | Need siren sound when alarming * | 11#0# | No siren sound when alarming |
| 12#1# | Sending SMS when alarming * | 12#0# | No Send SMS when alarming |
| 13#1# | Sending MMS when alarming * | 13#0# | No Send MMS when alarming |
| 15#1# | Dial phone number when alarming * | 15#0# | Just alarm and no dialing |
| 21#--# | Set picture size(0—2), 0 --for160x128; 1*-- for 320x240; 2 --for 640x480 | | |
| 22#--# | How many of photo-taken when alarm(1—20), take 22#1#, send one pictures when alarm * | | |
| 23#1# | Set the IR back light on | 23#0# | Set the IR back light off * |
| 24#1# | Set Picture motion detect alarm on * | 23#0# | Set Picture motion detect alarm off |
| 27#--# | Set the sensitivity of camera(1—99),.1 is high sensitivity and 99 is low sensitivity, 15 * | | |
| 31#--# | Change password. Enter a new password (1—6 bit). | | |
| 32#1# | Set ENGLISH version | 32#0# | Set CHINESE version * |

| | | | |
|---|---|---|---|
| 40## | Show MMS setup in the base (41#----46#) | | |
| 41#--# | Set Access Point Node (APN): | | |
| 42#--# | Set MMS User name (User): | | |
| 43#--# | Set MMS Uesr Password (Pass): | | |
| 44#--# | Set IP Address (IP): | | |
| 45#--# | Set Port (Port): | | |
| 46#--# | Set MMS Homepage (MMS Home): | | |
| 51#--# | First group phone number(0—15bit) | 52#--# | Second group phone number(0—15bit) |
| 53#--# | Third group phone number(0—15bit) | 54#--# | fourth group phone number(0—15bit) |
| 55#--# | Fifth group phone number(0—15bit) | | |
| 60## | show Email address in the base | | |
| 61#--# | Set First Email address(0—31bit) | 62#--# | Set Second Email address(0—31bit) |
| 71#--# | Set PSTN monitoring center phone number. 71# center number # room No. # | | |
| 72#--# | Set Network monitoring center IP Address. 72# IP Address # Port No. # | | |
| 80## | show preset SMS in the base | | |
| 81#--# | First group Message(0—20bit) | 82#--# | Second group Message(0—20bit) |
| 84#--# | fourth group Message(0—20bit) | 85#--# | Fifth group Message(0—20bit) |
| 90## | show Output in the base | | |
| 92#1# | Set Output 2 to high | 92#0# | Set Output 2 to low |
| 94#1# | Set Output 4 to high(Relay close) | 94#0# | Set Output 4 to low(Relay open) |

**Note**:

1. above table, ' * ' stand for approves
2. In the above phone operation, one long beep shows successful, two short beeps shows failed, you should try again.
3. In the above table, some commond operation is suitable for SMS setting.

## How can I setup the Special function of the base by SMS?

You can send a SMS message to modify the base setting, its format is:
Password # Command order #Parameter#.

123456#1#1#", control the base to enter into arming state.
123456#21#2#, change the size of the picture to 640x480(big size)
123456#31#888888#", change the password into 888888.

1. Set Email address:
   123456#61# abcd@163.com # , First Email address: abcd@163.com
   123456# 62# efgh@hotmail.com # ,Second Email address: efgh@hotmail.com
2. Set PSTN monitoring center:
   You also can save: phone number # room No. #, it will dial the room number when alarming.(for the users whose alarm system is working with monitoring center)
   123456# 71# 88886666 # 0001 # , show monitoring center:88886666; room No.0001
3. Set Network monitoring center IP Address.
   72# IP Address # Port No. #: (fix IP Address)
   You also can save: IP Address # Port No. #, it will send the pictures to the computer

monitoring center when alarming.(for the users whose alarm system is working with my monitoring center)

123456# 71# 125.077.224.103 # 0900 # , show IP Address: 125.077.224.103; Port No. :0900

4. Set MMS parameter in the base.

As in **CHINA** ---- MMS settings :

Access Point Name(APN): CMWAP

Gateway IP (proxy) address(IP): 10.0.0.172

Username:

Password:

MMS Message (Relay) Server URL: http:/mms.monternet.com

| | |
|---|---|
| 123456#41# CMWAP # | Set GPRS Access point. |
| 123456#42# # | Set MMS Uesr name. (empty) |
| 123456#43# # | Set MMS Uesr Password. (empty) |
| 123456#44# 10.0.0.172 # | Set IP Address. |
| 123456#45#9201# | Set Port , |
| 123456#46#http:/mms.monternet.com # | Set MMS Homepage. |

5. The setting way is the same with telephone number setting. The base will reply you a message for confirmation when it carry out your application. So user will know the working state of the base.(arm, disarm or alarm)

You also can only send the password to check out the present state of control unit. The replied message as follows:

Disarm, Siren-ON, SMS-ON,MMS-ON,Phone-ON,Pic-Middle; Pic-1,Infraled-OFF, Pic-Moniter-ON, Cam-sensitivity15

## How can I add more detectors?

You can add new sensors or detectors, such as wireless door sensors, PIR Sensors, gas and smoke detectors when you push the reset key untill the LED change from green to red. You should trigger every sensor or detector, and the red LED will flash and shows successful every time you register one sensor or detector with control unit. After you finish doing it,you can push the reset key again or waitting 20 seconds, it ends and automatically enter into working state.(with green LED)

## How can I trigger the detectors?

I said the way of adding more detectors if needed, but how to trigger the detectors?

First, as we all know, every detector has its unique ID. It must be registered with the base so that it can be identified during working. When it detector detect something, it will send signal to base .If it did not register with base, the base would not identify it and could not receive the signal, so the alarm will be failed.

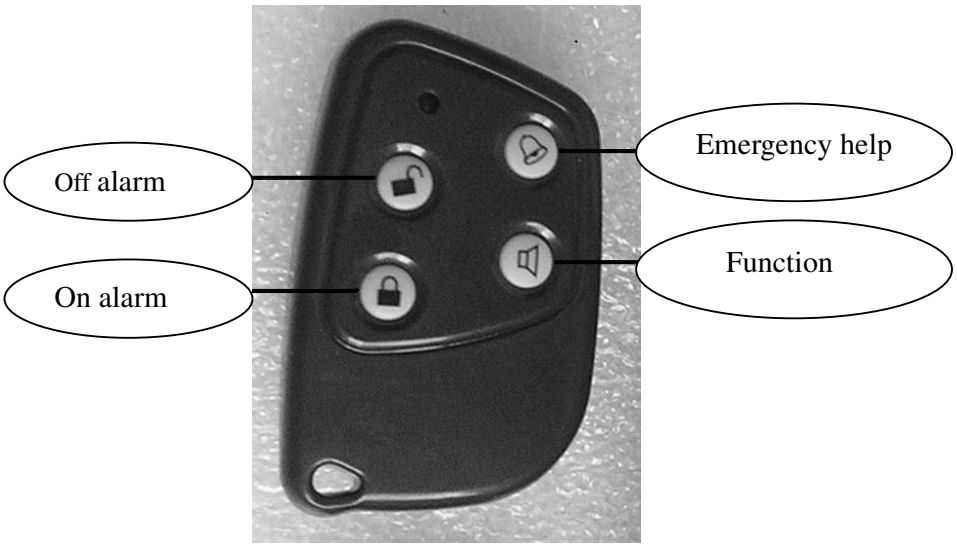
Before registering, please collect all detectors and make sure their battery inside and can work normally. When the base is ready ,LED will show green or flash green, you can push the reset key untill the LED change from green to red. This time you can start to register them. For, door sensor, just remove the two parts of door sensor and remove back, it will

beep or flash red which shows successful. And for PIR Sensors, you can turn the switch to “on” and the system will beep or flash red which shows successful and then turn it to “off” to avoid wrong alarm. For remote controllers, you can press Emergency call on its panel (four keys on it), and the system also beeps or flash red. For gas and smoke detectors, there is a black switch on the left side; you can press it to register it with base.

## How Can I cancel the lost detectors?

It often happens that some of coded detectors are lost. It is not safe for your home, but do not worry, you can cancel the coded information of this detector so that It can not control your alarm system. But how to do it? It is very simple, just reset the alarm system by keeping reset button and power the system and then beep or LED flashes, it shows reset is successful. All registered detector have been deleted. You can register them again with the above solution. But the SMS message was not changed.

## How to control the control unit with remote controllers?




There are four or three keys on its panel.( see the picture): arm, disalarm, emergency help, function.

1. When you press, “alarm”, the signal LED of the base will be turned green with flashing. It shows it is in arming status, at this moment, it will alarm and dial out when you remove the door sensor, switch PIR Sensor, go across from the front of camera and so on. The LED will turn to red, which shows it is alarming.
2. When you press, “disalarm”, signal LED of control unit will be turned green and does not flash. At this moment, It won’t alarm and dial out.

When you press “Emergency help”, it will alarm and send MMS and SMS no matter it is under arming status or disarming status. The Signal LED will be red with flashing, which means it is alarming. .

## How to Connect a sounder?

If you choose to use the internal sounder supplied then connect the black wire to the ground terminal and the red wire to the speaker terminal as indicated in the diagram below.
Please refer to separate instructions provided with your external sounder for connection details.

## How to Connect conventional wired devices?

The system has three input channels which are configured to monitor any conventional normally closed (NC) security products such as door contacts, PIR movement detectors etc. You may connect many devices to the inputs using parallel connections as indicated in the diagram below.
Bespoke applications can also be catered for such as machine monitoring by simply wiring a fault contact from your equipment to the monitoring inputs.
Typical examples of bespoke applications would be low fuel switch monitoring, heating failure or refrigeration failure. We would be happy to provide specialist advice for such applications.

## How to Connect switched output devices?

The system has three on-board outputs that can be controlled by your telephone. In the event of an alarm situation these devices can be activated. For example an additional sounder may be activated once you have established that the alarm is genuine by 'listening in' to the system on board microphone system.
It is also possible to simply control devices by telephone when you are away from your property. You may switch on or off a light, radio or heater. Switching of such devices requires a small relay. Please contact us for details and advice on your application. We would be only too happy to assist.
An on board relay is also provided again to allow your to remotely switch equipment via your telephone. This relay can be activated when the system is armed or disarmed.
Bespoke applications such as machine monitoring may utilize the on board relay to switch off plant in the event of a fault being detected.
An example of an output device connection is indicated below.

## Standard pack components

1 the alarm system
1 wireless infrared detector
1 wireless door magnet detector
1 internal alarm sounder
2 remote controllers,
1 12v dc power supply
1 232-port motion-detecting camera

1 instruction manual

## Additional products

PIR Detectors

Smoke Detectors

Break sensor

Door / Window Contacts

Remote Controls

LPG Gas Detector

## Technical Parameters

Operating voltage: DC6V
Average power: AC/DC exchanger 2A.
Wireless receiving distance: ≥ 100m
Operating Frequency: 315MHZ or 433.92, 900-1800MHZ Customized.
Operating voltage: 12V/220/110VAC
Wireless receiving distance: ≥ 100m-250m

Outer Alarm Siren Volume: 110 db
Working Condition: Temperature －10℃～+ 40℃
Humidity ≤ 90%
Capacity for Wireless Device: 32

Wireless Gap Detector
Power Supply: DC12V(inner 12V battery)
Static Current: ≤20 uA
Transmission Current: ≤15mA
Transmission Frequency: 315/433MHZ±0.5MHZ
Transmission Distance: No obstacle 80m
Interval Distance: 15 mm
Working Condition: Temperature －10℃～+ 40℃
Humidity ≤ 90%

Wireless P.IR Detector
Power Supply: DC9V (inner 9V battery)

Static Current: ≤100 uA
Transmission Current: ≤20mA
Transmission Frequency: 315/433MHZ±0.5MHZ
Transmission Distance: No obstacle 80m
Detective Speed: 0.3～3m/s
Detective Distance: 5～12m
Detective Range: Horizontal 110° Vertical 60°
Working Condition: Temperature －10℃～+ 40℃
Humidity ≤ 90

Remote Controller
Power Supply: DC12V (inner DC12V battery)
Static Current: 0
Transmission Current: ≤15mA
Transmission Frequency: 315/433MHZ±0.5MHZ
Transmission Distance: No obstacle 80m
Working Condition: Temperature －10℃～+ 40℃
Humidity ≤ 90

Basic component:1 Main Panel, 1 Wireless infrared detector，1 Wireless

Door magnet detector, 1 Alarm horn, 2 Remote controllers, 1 Power supply.

Chosen component: wireless gas detector, wireless smoke detector,

Panic button, signal transfer, baluster.

The specification of GSM Home Alarm with photo taking:
Stand-to current: 20mA.
Working volt. : 9V-12V
Working temperature: -40—85
Support GSM900, 1800, and 1900Mhz., three working modes.
Support PHASE 2/2 agreement (including data business)
Sending power: Class10 (2 w)/ EGSM900 and CLASS 1(1W)/GSM1800
Receiving code: ASK
Receiving frequency: 315 and 433Mhz.
Remote distance: 100 meters.