

GSM / LED Wireless Alarm System

USER'S MANUAL



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I. Foreword






Thank you for purchasing and using GSM LED wireless alarm system. This is a Hi-tech household security product. It will make your life safer and colorful.

Please read the below information carefully before using for a proper usage.

II. Brief introduction of the Product

Product components: This product is composed of alarm host, basic accessories and optional accessories.

Table 1: Product components

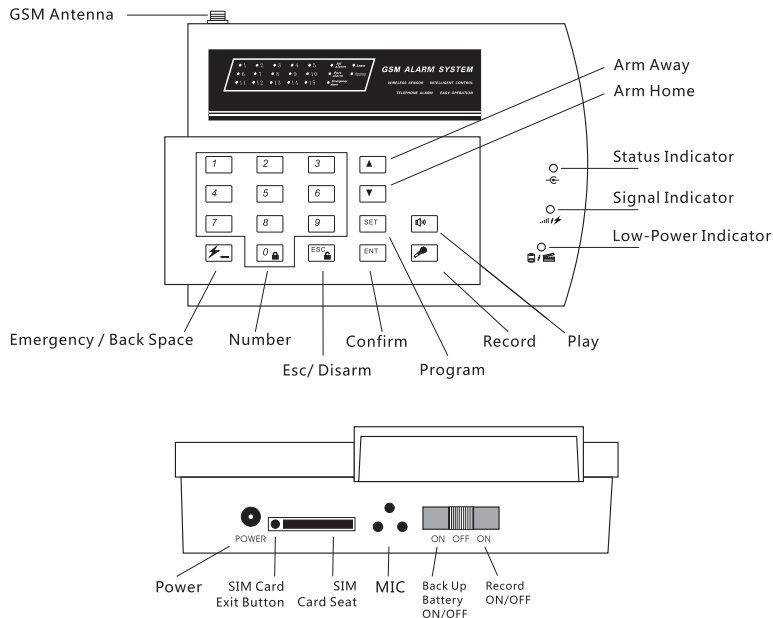
Alarm Host	Basic Accessories	Wireless Optional Accessories
 GSM LED Alarm Host	 Wireless remote  Wireless wide-angle PIR sensor  Wireless door sensor  Wired indoor siren	<ol style="list-style-type: none">1.Wireless Digital Sensor2.Wireless Motion Sensor3.Wireless Gas Alarm4.Smoke Alarm5.Wireless Indoor & Outdoor Siren6.Doorbell Bbutton7.Wireless LED Keypad8.Wireless LCD Keypad

III. Function Features

1. LED displays Date
2. GSM 2/4 Band Net trasmission,phone audible alarming and SMS alarming
3. 15 wireless zones (Each zone supports up to 4 sensors). Supports 8 more wired zones(Optional).
4. Can preset up to 6 phone numbers and dial in sequence.
5. Intelligent logic analysis technology, corresponding zone number can be ideitified from LED indicators.
6. Arm\ Disarm the system by 5 ways: SMS, Main Host(Keypad), Wireless Keypad, Keychain Remotes, or even remotely by phones.
7. Available in AC\DC with Low-voltage Indicators
8. Learning sensors to alarm host, very easy operation.
9. Non-volatile chip, information stored automatically when off power.
10. Check door>window status automatically
(This is when the system is disarmed only, if a door is opened, it will sound fast “bi bi bi”)
11. Support wireless “ding-dong” doorbell function (Optional)
12. Support CID uploading to CMS(Center monitoring Station) , can user our GSM CID connector to have this function.
13. Disconnection alarm, auto priority to occupy the telephone and monitoring function to hear what is happening.
14. Built-in Li-Ion backup battery, it will alert when low power or without external power supply.
15. Store up to 100 alarm records and 100 arm\disarm records

IV. Understanding of the Products

A. Understanding of the Alarm Host



1. Specifications:

- Working power: AC=100~230V, DC=12V 1A
- Static current:<50mA (when not charging) Alarm current:<500mA
- Built-in Li-Ion backup battery: 3.7V 800mAH(rechargeable),
- Standby: around 24 hours, Full charging time: 12 hours
- 2-Band GSM: GSM900/1800Mhz (4-Band is optional: 850/900/1800/1900Mhz)
- GSM transmit power: 2W
- Receiving and emitting frequency: 433MHz
- Working condition:
 - Temperature: -10°C ~ 50°C Humidity: <80%
- Product dimension:150×107×26(mm)

2. Zone types and definitions

- Zone types: Perimeter zone, Motion zone, Emergency zone
- Definitions:
 - Perimeter zone: Detecting the space like doors, windows, etc., generally use wireless door magnet sensors and wireless curtain PIR sensors
 - Motion zone: Detecting the space like living room, aisles and bedrooms, etc., generally use wireless wide-angle PIR sensors.
 - Emergency zone: Detecting the space like Emergency area (such as emergency distress, medical rescue, gas leakage and fire alarm, etc., this zone keep 24-hour monitoring status automatically. Generally use panic button, wireless gas sensors and wireless smoke sensors.

3. Modes of arming

- “Arm Away” mode : Once any detectors in perimeter zones or motion zones get triggered, the host will alarm immediately and meantime dial “#” automatically.
- “Arm Home” mode : Once any detectors in perimeter zones get triggered, the host will alarm immediately and meantime dial “#” automatically. It will not alarm after any detectors in the motion zone are triggered.

4. How to operate the alarm host?

4.1 Preparation

1. Insert SIM card properly.
2. Fix the antenna
3. Connect the telephone cable: connect the telephone cable of telecommunication to “Tel in” port on the alarm host, then use the telephone cable attached in the package to connect “Tel out” port and telephone set.
4. Connect power: connect the power adaptor to DC port of the alarm host first, then plug it to the AC socket.
5. Turn on the backup battery
6. Check and see if GSM signal is good enough

Type	GSM Signal OK	Signal is not normal or SIM card not inserted properly
2-Band (900/1800 MHZ)	Signal light keeps flash about every 2 seconds	Signal light keeps on
4-Band (850/900/1800/1900 MHZ)	Signal light keeps flash about every 3 seconds	Signal light keeps flash about every 1 seconds

4.2 Start to program

Note:

1. The host will exit programming mode if without any operation within 20 seconds
2. It will exit to the previous menu if press “ESC”
3. If operate incorrectly, host panel will sound "DIDI"; If successfully operation, it will sound "DIDI---"

4.2.1 Table 2: Program Setting

Classification (For users)	To be programmed	Code	Setting	Operation Instruction	Default Setting
Necessary to know	Start to program	--	SET + XXXXXX + ENT	"XXXXXX" :6-digit program password	8 8 8 8 8
	Input phone numbers	0	0 + X + ENT +Tel number+ ENT+ Y+ENT	"X" :Group number of telephone numbers,includes1~6. "1" for C ID protocol. "2" for XSJ protocol. "3~6" for personal.12 digits at most. "Y" : 0 or 1. "0" : phone alarm "1" : SMS alarm	No number
May know	Exit delay	1	1 + X + ENT	"X" : 0 or 1. "0" : 0 second; "1" : 15 seconds	0
	Entry delay	2	2 + X + ENT	"X" : 0 or 1. "0" : 0 second; "1" : 15 seconds	0
	Emergency alarm sound	3	3 + X + ENT	"X" : 0 or 1. "0" : silent ; "1" : audible ;	1
	Perimeter zone,motion zon alarm sound	4	4 + X + ENT	"X" : 0 or 1. "0" : silent ; "1" : audible	1
	Program wireless sensors	7	7 + X +ENT+ Y Y + ENT	"X" : 0 or 1. ("0" : add; "1" : delete) "YY" : Zone numbe. Includes "00~15"	No setting
	On/Off of door & window state check	9	9 + X + ENT	"X" : 0 or 1. "0" : closed; "1" : open	0
Unnecessary to know	If upload arm & disarm to management center	5	5 + X + ENT	"X" : 0 or 1. "0" : Not upload; "1" : Upload	0
	User Code	8	8 + 0 + ENT + X X X X + ENT	"X X X X" :4-digit user code	No code

Note: Press ESC to exit from the programming state after finishing programming.

4.3 How to change programming password (Users must know and operate)



In order to keep program password safe and to be easily remembered, users can change it via below setting:
【SET + 999999 + ENT + Six Digital New Programming Passwords + ENT + Six Digital New Programming Passwords + ENT】

Notes:


1. Press SET, then programming light on. After finishing setup, programming light off.
2. The sound “Di Di--” from the alarm host indicates successful operation, “Di Di” indicates failed operation

4.4 How to operate the Alarm Host? **(Necessary for users to know and operate)**

4.4.1 To record a voice message greeting:

Slide the switch on the left side of the alarm host to the RECORD ON, press and hold the Microphone  button, speak close into the rear side speaker of host, and then release the microphone  when finish with voice message greeting. Voice message greeting can be anywhere between 0~9 seconds long.

4.4.2 To Playback the recorded voice message greeting:

Slide the switch on the left side of the alarm host to DC ON, press and hold the playback  button to playback the recorded voice message greeting.

4.4.3 Arm :


BY wireless remote : press the corresponding arm button and the host will beep once to successfully complete the operation

By Host panel(Keypad): press “▲▼” to choose “armed away” or “armed home”

4.4.4 Disarm: By wireless remote: press the corresponding disarm button and the host will beep twice to successfully complete the operation

By Host panel(Keypad): 【ESC + master code + ENT】 →the host will beep twice to successfully complete the operation

4.4.5 Emergency: By wireless remote: Press Emergency key and the host will alarm immediately;

By host panel(Keypad): press  , and the host will alarm immediately.

4.4.6 Telephone alarm: After receiving the call, you will hear the recorded voice message immediately, it can be played for 30 seconds repeatedly, then follow the below instruction:

1. Input “8” to enter into the listening status for 20 seconds automatically, you can hear the alarming event sounds from phone. Each extra press of “8” can prolong 20 second listening in.
2. Input “#” to play the recorded voice message for one time automatically
3. Input “*” , the host will end the call and stop dialing any auto dialer#.
4. Directly hang off the telephone, the host will end the call and automatically dial the next auto dialer#.

4.4.7 SMS reporting: Mobile will get SMS like “ System Alarming XX, YYYY” , “XX” means zone number, “YYYY” means the detailed sensor.

4.4.8 Arm remotely by phone: 30 seconds after successfully dial the telephone number of host, enter the password of host after the beep---enter 1 after beep—the host will automatically hang up after beep to successfully complete the operation.

Notes: You can set “Armed Away” remotely by phone, but keep notes that you can’t set “Armed Home” by this way.

4.4.9 Disarm remotely by phone: 30 seconds after successfully dial the telephone number of host, enter the password of host after the beep---enter 0 after beep—the host will automatically hang up after beep to successfully complete the operation.

4.4.10 Arm by SMS: You can edit SMS "XXXXXXBF" to host panel, the host panel would arm automatically when getting this SMS, and also will message back to mobile "Arm successfully" .

Notes: Arm by SMS is only for "Armed away" !

4.4.11 Disarm by SMS: You can edit SMS "XXXXXXCF" to host panel, the host panel would disarm automatically when getting this SMS, and also will message back to mobile "Disarm successfully" .

4.5 How to use the extended functions

4.5.1 Separate arm and disarm of 8 wired zones: When the host is armed, press "1~8" number key can arm/disarm the cooresponding zone. Status light of the cooresponding zone on indicates armed, off indicates disarmed. Monitor open and closed states of door and window:
When the smart zone is ON, the arm operation is normal if all the doors or windows are closed.
But if any door or window is open, the host will sounds "Di Di Di" and at the same time the status light flashes frequently.

Note: 1. This function is available only with wireless intelligent door sensor programmed.
2. If arm by phone call, the operation is same as original.
3. If arm by remote controller or wireless keypad, it will arm successfully after two successive arm operation.

4.5.2 Wireless "Ding-Dong" doorbell: the alarm host will sounds "Ding Dong" three times after each press of the doorbell button.

Note: This is an optional function. To have this function, need to add and program a wireless doorbell button.

5. Cautions

5.1 Alarm processing mode: immediately after the system alarms, it starts to dial in sequence from the 1st group number to the 5th group number(skip empty numbers) automatically. It dials circularly for three times, the answered number and the numbers successfully received SMS will not dial repeatedly.

5.2 Alarm priority: 1. If the alarm host's own telephone line is occupied when it is alarming, it will cut it and make it unoccupied, at the same time dial out to report alarm event.
2. The alarm host's "Ding Dong" sound will switch to alarm sound and dial to report if it receives alarm signal when sounds "Ding Dong"

5.3 Lower voltage alert: Low-Power light on the host will be on when power gets very low.

Table 3:Wireless zones :

Zone Number	Sensor Type	Zone Type	Applicable sensor names	Notes
00	Wireless sensors	—	Wireless remote & Wireless Keypad	Supports upto 4 wireless sensors for each zone
01~05		Emergency zone	Wireless Smoke Alarm, Wireless Gas Alarm& Panic button etc.	
06~10		Perimeter zone	Wireless Door/Window Sensor & Wireless Curtain PIR etc.	
11~15		Motion zone	Wireless Wide-Angle PIR Motion Sensor etc.	

Table 4: Default set before shipment

Wireless Sensor Type	Keychain Remote	Wireless Door/Window Sensor	Wireless Wide-Angle PIR Sensor	Wireless (N/A)	Wireless Smoke Alarm
Zone Number	00	06	11	02	03

B. Understanding of Basic Accessories

1. Wireless Remote

1.1 Functions Features:

- To control the alarm host to arm and disarm.
- With the emergency key for urgent help.

1.2 Specifications:

- Operating power: 27A 12V alkaline battery
- Emitting distance: $\geq 100\text{m}$ (in open area)
- Service life: ≤ 1 years

1.3 Installation and Usage:

- For users to take along.
- Generally, press the "Away" key to arm before leaving home; press the "Disarm" key to disarm; press the "Home" is setting "Armed home", please take notes that "Arm Home" is only effective for sensors in Perimeter Zone (door sensor\curtain PIR sensor) and sensors in Emergency Zone (Like Gas sensor\Smoke sensor\Glass sensor\Emergency button), it is not effective all sensors in Motion zone(Like wide-angle PIR).
- Please replace the batteries after one year usage and when you feel shorter control distance.

1.4 How to program

A. Add 1.4.1 【Start to program】 (Please refer to Table 2)

1.4.2 【Wireless configuration】 : 【70 + ENT+ 00 + ENT】 (At this time, "Learn" light keep on) Press any key on remote controller twice successively, if you hear "Di----" form the alarm host and see the "Learn" light flashes five times and off, it indicates successfully added.

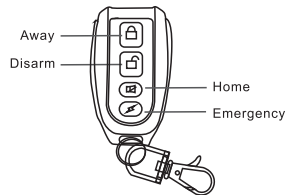
B. Delete 1.4.3 【Start to program】 (Please refer to Table 2)

1.4.4 【Wireless configuration】 : 【71 + ENT+ 00 + ENT】 if you hear "Di Di---" form the alarm host and see the "Learn" light flashes two times and off, it indicates successfully cancelled.

Notes: 1. You can only add 1 remote controller each time, totally 10 available to be added.

2. All the remote controllers are cancelled after your cancelling operation.

You have to do the adding operation if you need one or more.



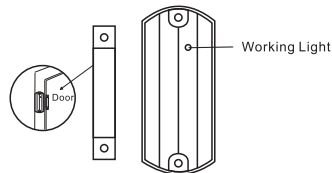
2. Wireless Door Sensor

2.1 Functions Features:

- Generally set as Perimeter zone.
- If any door or window is opened, it will transmit the alarm signals to the alarm host.

2.2 Specifications:

- Operating power: 23A 12V alkaline battery
- Frequency: 433MHZ
- Emitting distance: $\geq 100\text{m}$ (in open area)
- Service life: ≤ 1 year
- Alarm Distance: $< 4\text{cm}$



2.3 Installation and Usage:

- Fix the part of magnet onto the door frame in a position of 1.6m above the ground to prevent any children from bumping onto it
- Fix the part of emitting onto the door frame, make sure to keep the part of magnet and part of emitting in parallel, the space between the two parts shall be less than 10mm
- Upon the working light flashes frequently in blue, please replace the batteries

2.4 How to program

A. Add 2.4.1 【Start to program】 (Please refer to Table 2)

2.4.2 【Wireless configuration】 : 【70 + ENT+ XX + ENT】 (At this time, “Learn” light keep on)

Notes: “XX” indicates group number of defense zone, including 01~06. Trigger the door sensor twice successively, if you hear “Di---” form the alarm host and see the “Learn” light flashes five times and off, it indicates successfully added.

B. Delete 2.4.3 【Start to program】 (Please refer to Table 2)

2.4.4. 【Wireless configuration】 : 【71 + ENT+ XX + ENT】 if you hear “Di Di---” form the alarm host and see the “Learn” light flashes two times and off, it indicates successfully cancelled.

Notes: 1. You can only add 1 wireless door sensor each time. Each group is available to add 4 wireless door sensor

2. When exceeds 4, the latter added wireless door sensors will cover the former added one.

3. All the wireless door sensor in this group are cancelled after your cancelling operation for one group . You have to do the adding operation if you need one or more.

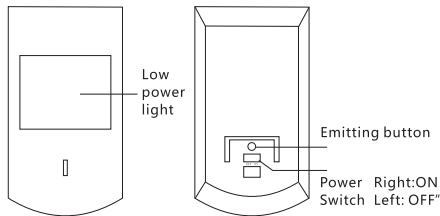
3. Wireless wide-angle PIR Sensor

4.1 Functions Features:

- Mainly monitor and control indoor space, generally set as Motion zone.
- When human body enters into detecting area, the sensor will transmit alarm signals to the alarm host.

4.2 Specifications:

- Operating power: 9V alkaline battery
- Emitting distance: $\geq 100\text{m}$ (in open area)
- Service life: ≤ 1 year
- Detecting distance: $110^\circ 10 \times 10\text{m}$



4.3 Installation and Usage:

- Fix the bracket on suitable wall surface or in wall corner at a distance of 2~2.4m above the ground;
- Open the sensor shell to connect the batteries well and adjust jumper line (short circuit "5S" : The sensor will detect once every 5 seconds; short circuit "5MIN" : The sensor will detect once every 5 minutes;
Suggestion: short circuit "5S" for testing and "5MIN" for normal use;
- Fix the sensor onto the bracket;
- Adjust the sensor to a proper angle and then slide the power switch on the side to "ON", and it will enter into the normal working state after 30 seconds;
- Upon the working light flashes frequently in green, please replace the batteries.

4.4 How to program

A. Add 4.4.1 【Start to program】 (Please refer to Table 2)

4.4.2. 【Wireless configuration】 : 【70 + ENT+ XX + ENT】 (At this time, "Learn" light keep on)

Notes: "XX" indicates group number of defense zone, including 11~15. Press the "Learning Emitting Switch" twice successively to trigger PIR sensor, if you hear Di---- form the alarm host and see the "Learn" light flashes five times and off, it indicates successfully added.

B. Cancel

4.4.3 【Start to program】 (Please refer to Table 2)

4.4.4 【Wireless configuration】 : 【71 + ENT+ XX + ENT】 if you hear “Di Di---” form the alarm host and see the “Learn” light flashes two times and off, it indicates successfully cancelled.

Notes: 1. You can only add 1 wireless PIR sensor each time. Each group is available to add 4 wireless PIR sensors
2. When exceeds 4, the latter added wireless PIR sensors will cover the former added one.
3. All the wireless PIR sensors in this group are cancelled after your cancelling operation for one group . You have to do the adding operation if you need one or more.

4. Wired Siren (omitted)

V. Common Problems and Solutions

Symptoms of Faults	Possible Cause	Solution
The alarm host can't fully record	Did not keep pressing the record all the time while recording	Keep pressing the record all the time while recording
Repeatedly receiving the alarm telephone	Fail to operate according to the operation instruction of the telephone alarm	Follow the below instructions after answering the alarm phone calls and hearing the recorded message: (See Point 4 of “ How to operate the Alarm Host? ”)
Can't receive alarm sms or can't receive sms reply after made arm or disarm operation by sms	1. SIM card is not insert properly 2. GSM signal is not good enough	1. Insert SIM card properly 2. Adjust alarm host' s installation position till the signal status shows “OK”

The host does not alarm after the detector is triggered in arm state	<ol style="list-style-type: none"> 1. Caused by the functions of arm mode (Armed Away and Armed Home); 2. Have already setup time for Entry Delay or Exit Delay 	<ol style="list-style-type: none"> 1. Armed Away mode: the alarm goes off when any sensor is triggered; 2. Armed Home mode: the alarm goes off when any sensor in 1st Defense Line is triggered and it won't alarm when any sensor in 2st Defense Line is triggered 3. Program to adjust the time for Entry Delay or Exit Delay
The PIR sensor doesn't work	<ol style="list-style-type: none"> 1. Not connected to the power 2. Port of the detector is in the power-down mode. 	<ol style="list-style-type: none"> 1. Open the sensor shells to install the batteries well and slide the power switch to On; 2. 5S: detect once every 5 seconds; 5MIN: detect once every 5 minutes;
The detecting distance of PIR sensor gets shorter	The ambient temperature in the detecting area is too high.	When the ambient temperature in the detecting area exceeds the human body temperature, the detecting distance will get shorter, it's normal.
The host does not alarm after the new added wireless detector is triggered.	Failed to follow the operation instruction of Adding and deleting sensors to add the new wireless sensor	Follow the operation instruction of How to program to activate the new wireless sensor
The PIR sensor flashes frequently in blue.	Batteries are running out.	Replace with new batteries of the same specification.
The door sensor's indicator flashes frequently.	Batteries are running out.	Replace with new batteries in the same specification
The distance of the remote controller gets shorter.	Batteries are running out.	Replace with new batteries in the same specification

VI. Common Problems and Solutions

This alarm is the hi-tech product with the outstanding design and sophisticated technique, and shall be used carefully. To make the alarm to operate for a long term stably and to prolong the service life, it is recommended that:

1. Try to put the alarm host in the dry and well-ventilated places;
2. Do not put the host and any wireless detectors in too cold, too hot or dusty places to prevent it from curtailing the service lives of electric parts and preventing the plastic shell from distorting and accelerating to age;
3. Do not put the host and any wireless detectors in low and too exposed places to prevent the children from touching them or the thieves from finding them;
4. Regular testing is necessary for finding and resolving problems in time.
5. Regularly check the batteries in all wireless sensors and replace the running out batteries to ensure the normal operation of them;
6. You'd better keep the power of the alarm host and all wireless accessories off while a long-time vacancy of the system.

