Dear users,

Thank you for having selected the intelligent alarm system. Please read through this manual before installation so as to operate properly.

The intelligent alarm system adopts the newest GSM network and Digital Signal Processing technology, and is widely used in security fields, such as protect your home, store, office, factory etc. It really realizes wireless alarm dealing and controlling remotely, conveniently and flexible, and solves the limitation of wired data transmission in telephone and wired network. Perfect structure, convenient installation, easy operation with wireless remote controllers are designed for the idea of people-oriented, which will make you feel easy and comfortable while using this intelligent alarm system.

“People is center, technology is first” is our company’s action rule. Customer satisfaction is our consistent pursuit. Perfect system, excellent services, sincere attitudes will bring you a new enjoyment.
# Contents

1. Description
   1.1 Main functions
   1.2 Specification

2. Structure

3. Installation and Operation
   3.1 Installing the SIM card
   3.2 The connection of wired detectors and speaker
   3.3 Running

4. Pre-record alarming voice

5. Programming by keyboard
   5.1 Entering into setting status
   5.2 Programming mobile phone numbers for SMS alarm
   5.3 Programming phone numbers for voice calling alarm
   5.4 Modifying the password of alarm host
   5.5 Modifying alarm host ID
   5.6 Whether send SMS or not when arm/disarm
   5.7 Exiting setting status

6. Programming by SMS command
   6.1 Programming 3 mobile phone numbers for SMS alarm
   6.2 Programming 3 phone numbers for voice calling alarm
   6.3 Deleting alarm phone numbers
   6.4 Modifying the password of alarm host
   6.5 Arm/Disarm
   6.6 Modifying zones name
   6.7 Modifying installation address name
   6.8 Inquiring arm/disarm status
1. Description
The alarm system adopts SMS data transmission and voice platform of GSM network to send control command and receive alarm message remotely. The system can be armed according to user’s requirements, when a signal is detected by sensors, the sensors will send alarm signal to alarm host immediately, then the alarm host will send alarm SMS to pre-set mobile phone numbers, and meanwhile dials its preset telephone/mobile phone numbers automatically. In addition, user can dial the number in the alarm host to remote control the host, such as arm, disarm etc.

1.1 Main functions
- Whether send SMS or not when arm/disarm;
- Arm/disarm remotely by phone keypad;
- Automatically send SMS to 3 preset phone numbers while alarming;
- Automatically call 3 preset phone numbers and start on-site listen in while alarming;
- Real-time report the alarm zone remotely by SMS and voice reminding;
- With user-friendly voice reminder while operating the alarm host;
- Support two-way communications;
- Built-in dedicated emergency alarm zone and fire alarm zone;
- Automatically report while the AC power failed or recovered and switch to backup battery when the external power failure;
- Built-in 12 wireless alarm zones (including 1 emergency zone and 1 fire alarm zone), and 2 wired zones (with anti-cut function);

1.2 Specification
1. Wireless frequency: 315MHz/433MHz;
2. GSM frequency: 900/1800MHz (standard), 850/1900MHz (optional)
3. Alarm response time: ≤8s (GSM signal in normal)
4. Power requirements: AC 220V 50Hz/60Hz
   Working consumption: < 0.6W
   Backup battery: DC7.4V/850MA
   Backup battery working hours: ≥10 hours
5. Working condition
   temperature: -20°~+60℃  humidity: ≤95% (non-condensation)
6. Size: 150mm (L) ×100mm (W) ×16mm (H)
7. Record time: 10s

2. Structure

Shown as above:
1. Emergency button: used for emergency alarm
2. WIRLESS LED indicator: when receiving wireless signal from wireless sensor or remote controller, the LED will be on, otherwise is off.
3. RUN LED indicator: blinking every 2s when the GSM signal is normal, when the GSM signal is failure it blinks every 1s.
4. ALARM LED indicator: When there is an alarm or entering into setting status, it will be on; when there is no alarm or escaping the setting status, it will be off.

5. Independent arm LED indicator: When there is one zone in the independent arm status, the LED is on.

6. ARM LED indicator: After system armed, it will be on; it will be off when disarm.

7. Power LED indicator: External AC power is connected, the LED is on; external AC power is failure, the LED is off.

Shown as above:

1. Fixing hole: Use for fixing the alarm host;
2. Power switch: Switch to right is on, switch to left is off.
3. Installation and operation

3.1 Installing the SIM card

The alarm host transmits alarm information by GSM SMS & voice platform, so you should prepare a SIM card before the installation. (If you use a new SIM card, make sure the new card...)
SIM card can send SMS and make calls normally.
Notes: Please turn off the power before inserting SIM card and make sure the direction is correct.

3.2 The connection of wired detectors and speaker
The alarm host is configured with 2 wired alarm zones and two-way communication functions (both wired alarm zone with anti-cut function.)

The wiring method is as following:
1) After opening the host’s case with screwdriver, you will see 6 wires inside the host. Shown as below:

Of which:
Red wire: the anode of the speaker; black wire: the cathode of the speaker.
The two yellow wires are for wired zone 1;
The two green wires are for wired zone 2;
2) Draw out these wires of wired detectors & speakers from the back of the alarm host.
3.3 Running

Make sure the power supply well connected, and then switch on the power, the ALARM, ARM, and POWER LED indicators will be on, the RUN LED indicator will blink. About 25s later, the host will get into initialization and GSM network searching mode, after “di di” beep sounds, the alarm system will enter into normally working status. At this moment, the ALARM/ARM LED indicator will be off, the RUN LED indicator will keep blinking every 2s/time.

Notes: If the RUN indicator keeps on or keeps off, it means that the alarm host has searched the GSM faults automatically.

4. Pre-record alarm voice

During the host working status, press “REC” button, the host will make “di” sound, and then it begins to record for 10 seconds. It will make “di, di ” sounds after finishing the recording. If you’ve connected the speaker before, the host will broadcast your recorded message automatically.

Note: Message should be brief. For example: “This is No. xx, building xx district xx. Please help, there is illegal intrusion in the house.”
5. Programming the host by wireless keypad

Wireless keypad

5.1 Entering into setting status
After the host get into running status, press “SET” button, it will make two “di di” beep sounds, meanwhile the ALARM LED is on. It means the host enters into the setting status. Then you can start to program the alarm numbers.

**Note:** When programming the alarm phone numbers by the keypad, every time you press the button on the keypad you will hear “di” sounds for confirmation, if there’s no voice you can press the button again.

You can press this button “*” (before pressing the button “#”) to cancel the numbers that you have already input.

5.2 Programming mobile phone number for SMS alarm

a. In setting status, operate the keyboard as below:

**Input:** Serial number + mobile phone number + #

**Example:** program phone number 13688888888 as the **first** SMS alarm phone number.

Input 113688888888#, then you will hear “di, di” sounds for confirmation.

Repeat the process to program the other two mobile phone numbers.

**Note:** serial number can only be 1,2,3 and the number “1” is the first SMS alarm phone number, the rest may be deduced by analogy.

b. Delete SMS alarm mobile phone numbers
Input: serial number + #, then can cancel the phone numbers.

Note: Please program the first SMS alarm mobile phone number because that if you did not set the first SMS alarm number, you will be unable to know whether all of the contents of the program are right or not.

5.3 Programming phone numbers for voice calling alarm

a. In setting status, input: Serial number + phone number + #

Example: Program phone number 13688888888 as the first voice calling number. Input 413688888888888, then you will hear “di, di” sounds for confirmation.

Repeat the process to program the other two phone numbers.

Note: serial number can only be 4, 5, 6 and the number “4” is the first phone number for voice calling alarm, the rest may be deduced by analogy. Phone number can be telephone or mobile.

b. Delete phone numbers for voice calling alarm.

Input: serial number + #, then can cancel the phone numbers.

5.4 Modifying the password of alarm host

In setting status, then input “7 + new password + #” by wireless keypad, you will hear “di di” sounds for confirmation.

The factory default password is 1234. The password must be 4 digits.

Example: Program 4321 as new password, then you can input: 7+4321+#, you will hear two “di di” confirmation sounds after programming successfully.

5.5 Modifying the alarm host ID

In setting status, then input 0 + 6 digits of new ID + #, the host will make a sound as “di, di” to confirm the input.

The factory default ID is 000000. The serial number must be 6 digits.

Example: program123456 as a new ID, then input: 0123456 #, after programming successfully, you will hear two di di confirmation sounds.

5.6 Whether send SMS or not when arm/disarm
When program the host by remote controller, you can program the alarm host send SMS to 3 preset mobile phone numbers. In setting status, input “9 + #” on wireless keyboard, then you will hear “di, di” sound for confirmation.

Repeat the operation, you can cancel this function.

5.7 Exiting setting status
After successfully setting, if you don’t press any button on wireless keypad for 15s, the alarm host will automatically exit setting status. At this moment, alarm LED indicator will be off, and it will make two “di di” beep sounds, then the alarm host will send out a setting message to the first SMS alarm number.

6. Programming by SMS Command
6.1 Programming 3 mobile phone numbers for SMS alarm
Input SMS: 4 digits password + DD + serial number + mobile phone number.
Example: The host’s password is 1234; programming mobile phone number 13888888888 as the first SMS alarm phone number.
Send SMS to alarm host: 1234DD11388888888
After programming successfully, it will send the setting message to the first preset mobile phone number.

Note: The serial number shows alarm sequence (must be 1, 2, 3)

6.2 Programming 3 phone numbers for voice calling alarm
Input SMS: 4 digits password + DD + serial number + phone/mobile phone numbers
Example: The host’s password is 1234; programming 01088888888 as the first voice calling alarm phone number.
Send SMS: 1234DD40108888888

Note: The serial number shows alarm sequence (must be 4, 5, 6)

6.3 Deleting alarm phone numbers
Input SMS: 4 digits password + DD + serial number
Example: The host’s password is 1234. If you want to delete the first alarm phone number, Send SMS: 1234DD1

Note: The serial number shows alarm sequence (must be 1, 2, 3, 4, 5, 6)

6.4 Modifying password of alarm host
Input SMS: 4 digits password + DD + 7 + 4 digits new password
Example: The factory default password is 1234. If you want to program 5678 as new password,
Send SMS: 1234DD75678
After setting successfully, the new password will be sent to the first SMS alarm phone number.

6.5 Arm/Disarm
Arm by SMS: 4 digits password + A1
Disarm by SMS: 4 digits password + A2
Example: The host’s password is 1234. If you want to program the host in arm mode by remotely control, then input SMS: 1234A1.

6.6 Modifying zone’s name
Input SMS: 4 digits password + DM + zone’s code (2 digits) + New zone’s name
Reply SMS: New zone’s name.
Example: The host’s password is 1234. If you want to modify the name of zone 06 into “our bedroom PIR Alarm”
Send SMS: 1234DM06Our bedroom PIR Alarm.
Note: The new name should be less than 24 characters.
Zone’s code in 2 digits: 01 to 11, of which zone 11 is the emergency zone, and zone12 is default as fire alarm zone

6.7 Modifying the installation address name
Input SMS: “4 digits password” + “DM00” + “user defined name”
After modifying successfully, the modified name will be sent to the preset 3 SMS alarm
mobile phone numbers.

6.8 Inquiring arm/disarm status
Send SMS: 4 digits password + W1
Reply SMS: The host's arm/disarm status

6.9 Inquiring AC power status of alarm host
Input SMS: 4 digits password + W2
Reply SMS: host's AC power status

6.10 Switchover 4 Languages
Input SMS: “4 digits password” + “LG”+ “series number”
Notes: The series number stands for 1.2.3.4, of which 1 stands for English, 2 stands for Chinese, 3 stands for Russian, 4 stands for Spanish.
After setting successfully, you will get 3 SMS reply for switching to related language.

6.11 Programming independent arm
When the one zone in independent arm status, only SMS command can control the independent zone, doesn't accept any other modes control.
Programming alarm zone as the independent zone, input SMS: “4 digits password” + “AA”+ “zone series number”
Notes: “zone series number” stands for 10 zones (from zone 01 to zone10), it is allow to program multi-zones as independent zones.
Example: If you want to program zone 1, 3, 4 as independent zones, the host password is 1234, then you can send SMS to the alarm host, input SMS: 1234AA01, 03, 04
Notes: Between each zone, you must use a comma “,” for separating.
SMS reply: the status of each zone, of which “A” stands for the zone has been in status of independent zone.

6.12 Cancel independent arm
When the zone in the independent arm status, only SMS command can control the independent zone, doesn't accept any other modes control. So we can use SMS to cancel
the independent arm, input SMS:
“4 digits password” + “AD” + “Zone series number”
Notes: The zone series number stands for 10 zones (from zone01 to zone 10), you can cancel multi-independent zones one time.
Example: If you want to cancel independent zone 1, 3, 4, the password is 1234, then you may send SMS to alarm host: 1234AD01,03,04
Please remember that you should use a comma “,” for separating each zone.

7. Programming by phone keypad remotely
User can use any telephone or mobile phone to dial the phone number of the host, the host will automatically get through after 15 seconds detecting and remind you of inputting password with voice. If the entered password is wrong for 3 times, the host will hang up the phone automatically; if the entered password is correct, you will hear voice reminder, “Press one arm, press two disarm”. Meanwhile, remote listen in will run automatically. Press “*”, you will hear “di, di” sounds from host to indicate it has entered into setting status, then you can continue the following steps
Note: Every time when you press the phone keyboard, the host will make click sounds.
If not, this means your operation is unsuccessful, you should press it again.
You can press “***” to cancel the numbers which you have already inputted (before press “#”).
1). Programming mobile phone numbers for SMS alarm
2). Programming mobile phone or telephone numbers for alarm call
3). Modifying password of the host
4). Modifying new ID of the host
5). Programming alarm host whether reply “arm or disarm” SMS or not
6). Choosing open/close alarm of hardwire zone contact
7). Exiting setting status of the alarm host
The setting steps by phone are the same as by wireless keyboard. Please do as corresponding operation method by wireless keyboard.

8. Operation steps

8.1 Arm/disarmed by remote controller

![Remote Controller Diagram]

a. Press the button “Arm” on the remote controller, the host makes “di” sound and the ARM LED indicator will blink, after 30 seconds, the host will automatically enter into ARM mode and the ARM LED indicator will be on.

b. Press the button “Disarm” can disarm, the host makes “di,di” sound, and ARM LED indicator will be off, alarm host will be get into disarm mode.

8.2 Emergency alarm

When an emergency alarm occurs, press the button “Emergency” or the panic button on the alarm host, then the alarm host will get into emergency alarm mode immediately, then it will automatically start the siren for 90 seconds to inform the neighbors. At the same time, the system will automatically send the SMS of “Emergency alarm” and dial the pre-set phone numbers cycled for three times.

8.3 External AC power failure alarm

When the system checked out that there’s something wrong with the external power or the
external power is off for more than 2 seconds, it will enter into alarm status immediately. At the same time, the system will automatically send the SMS of “External power failed” and dial the pre-defined phone numbers cycled for three times.

When the power supply restored to normal, the system will stop alarming immediately and send the SMS of “External power OK”.

8.4 Handling Alarm

When an alarm occurs, the system will start siren for 90 seconds to inform the neighbors. At the same time, the system will automatically send SMS and dial the pre-set phone numbers. When any phone is answered, the system will playback the pre-recorded voice and listen in at site. At this moment, the user presses the phone keypad:

“1”-------------------arm
“2”-------------------disarm
“3”-------------------start the siren remotely
“4”-------------------switch off siren

If the phone line is busy or can’t get through, the system will auto-dial the next phone number circularly till the one of them is answered. If nobody answers the phone, the system will stop dialing after auto-dialing circularly for three times.

Note: When you are listening in at site, the host is still on the arm mode. If any detectors are triggered again, the host will broadcast the zone numbers to you.

8.5 Arm/disarm and listen in remotely

You can use any telephone or mobile phone to dial the phone number of the host, the host will automatically get through after 15 seconds detecting and remind you of inputting password with voice. If the entered password is wrong for 3 times, the host will hang up the phone automatically; if the entering password is right, you will hear sounds: “Press one arm, press two disarm”. Meanwhile, remote listen in will run automatically. Then press phone keypad:
1. Make sure the equipments have no water.
2. Install the system in a hidden place, but with normal GSM network.
3. Turn off the power supply before insert/take out the SIM card.
4. Have a hard connection to the main power supply and provide good heat dissipation.
5. The alarm host will get into normal running status about 25’s later.
6. Check all the detectors and their batteries in time and change them when power is low.
7. Please don’t install the PIR motion sensors face to the window directly for avoiding sunshine.
8. Don’t install the system close to the objects which generate strong interference, such as TV set and computer.
9. Inspect the GSM alarm system timely.
10. This product is designed for the indoor use rather than outdoor use.
11. Inspect the SIM card in the alarm host (GSM signal is ok, and the balance of SIM card, etc)
10. Encode method

<table>
<thead>
<tr>
<th>Name</th>
<th>Wireless address code from A0 to A7 (1-8)</th>
<th>D0 (13)</th>
<th>D1 (12)</th>
<th>D2 (11)</th>
<th>D3 (10)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Alarm host</td>
<td>Series number from right to left A0–A7</td>
<td>NC</td>
<td>NC</td>
<td>NC</td>
<td>NC</td>
</tr>
<tr>
<td>Remote controller</td>
<td></td>
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<td></td>
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<tr>
<td>Zone 01</td>
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<td>0</td>
<td>1</td>
<td>0</td>
</tr>
<tr>
<td>Zone 02</td>
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<td>1</td>
<td>1</td>
<td>0</td>
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<td>Zone 03</td>
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</tbody>
</table>

Remark: A0–A7 & D0–D3 use jumpers or tin soldering for connecting the pins. Connect N & H stands for “1”, Connect N & L stands for “0”, no connection stands for “2”.

![Image of the table and diagram](image-url)