

JN-M02 Wireless GSM Control Panel

I. Main function of control panel

1.1 Main functions

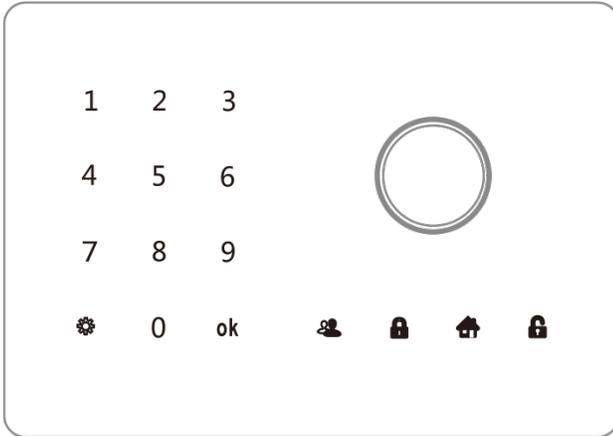


Figure 1

The device is such an alarm system with GSM dialer that provides the following functions:

1. Touch keypad on alarm panel to enable arm/disarm/home mode.
2. Two-way communication. It can also be used as a mobile phone, just make a call out through the keyboard.
3. 24 wireless zones, 6 fire alarm zones, 20 remote controllers or panic buttons, and 2 wired zones.
4. 6 languages and voice notification (English, Russian, German, Spanish, French and Chinese).
5. 3 SMS alarm numbers and 3 alarm call numbers.
6. Delay alarm function can be set as 0-60 seconds for optional, and delay arming time can set as 0 - 99s.
7. Setup siren alert time (0-254 seconds for optional).
8. Control the host via SMS and phone keypad.
9. Enable to setup home arming mode.
10. Record voice for 10 seconds.
11. External power failure/recovery alarm function (optional on or off)
12. Siren makes sounds when arm/disarm by remote controller.
13. SMS notification when arm/disarm by remote controller.
14. The host low battery alert function.

1.2 Specification

1. Wireless frequency: 433MHz
2. GSM frequency: 850/900/1800/1900MHz
3. Alarm response time: ≤10s (GSM signal in normal)
4. Power requirements:
 - Input: AC100- 240V 50Hz/60Hz, Output: DC 12V/1A
 - Working consumption: < 0.6W
 - Backup battery: DC7.4V/850mAh
 - Backup battery working hours: ≥10 hours
5. Working condition:
 - temperature: -20 °C ~ +55°C
 - humidity: ≤80% (non-condensation)
6. Size: 187L*130W*27H mm
7. Record time: 10 seconds

2.1 Control Panel: Front

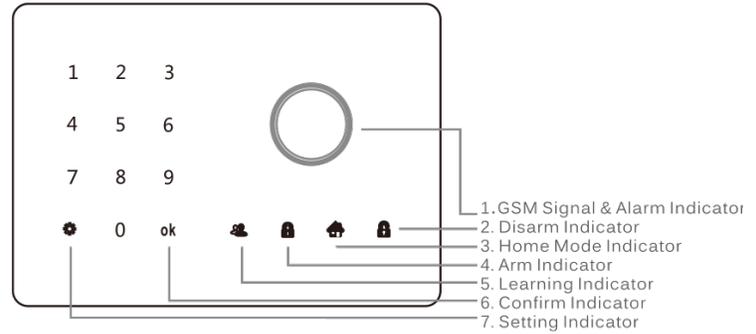


Figure 2

1. GSM network signal & alarm states
 - Normal GSM network signal: flash every 2 seconds;
 - Abnormal GSM network signal: flash every second;
 - In alarm status or sending SMS messages: in red color.
2. Disarm Mode
 - Touch to disarm the system. It comes with "input password" voice notification. Please input 1-6 digits password. (Initial password is 1234.)
3. Home Mode
 - Press to enter home mode (partial arm mode).
4. Arm Mode
 - Touch to arm the system
5. Learning Button
 - Touch the learning button : light on means the system is in learning status or dialing status; light off means exiting learning status or dialing status.
6. "Ok"
 - Confirm button & indicator.
7. Setting button & indicator
 - When the light on, it means the host has entered or waiting to enter the setting status; and the light off means the host has quit the setting status.

2.2 Control Panel: Side

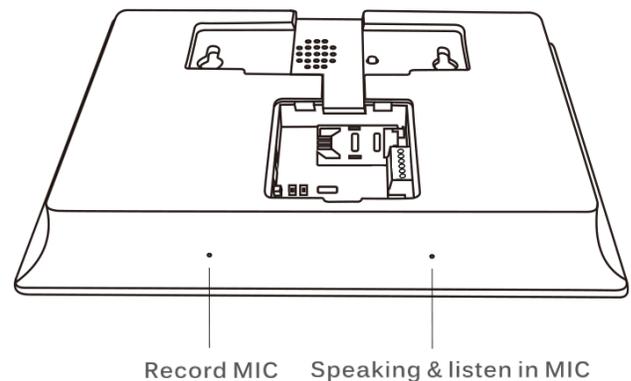


Figure 4

II. Introduction of Control Panel:

2.3 Control Panel: Back

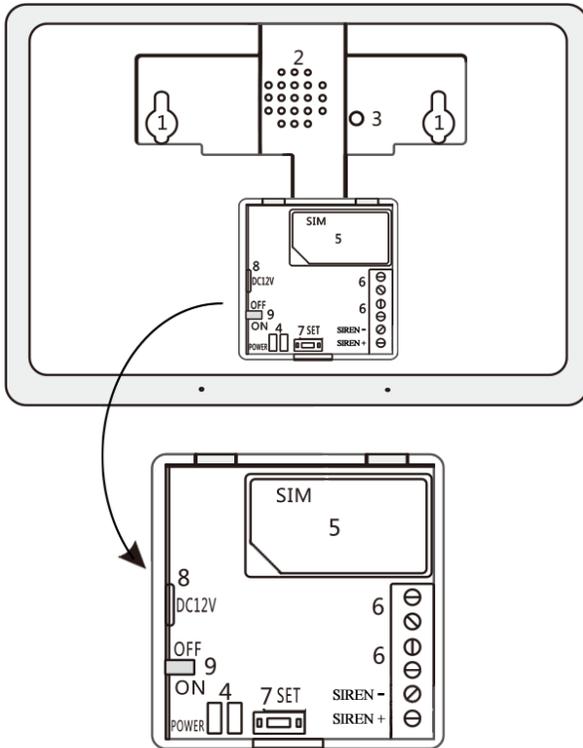


Figure 3

Showing as above:

1. Fixing Hole
2. Siren Hole
3. Tamper Switch
4. Power Indicator
5. SIM Socket
6. Wired Zone
7. Reset Button
8. Power Port
9. Power Switch

III. Installation & Operation

3.1 Insert SIM Card

The alarm host transmits alarm messages through GSM platform. Please prepare a SIM card before installation. (Make sure the SIM card can send SMS messages and make phone calls normally if it is a new SIM card). Turn off the power, and insert a SIM card in the position 5 of figure 3 to complete the installation.

3.2 Operation

Please connect the power supply well, and then turn on the power switch. The LED indicator of POWER keeps on, GSM signal indicator blinks, the light of ARM icon , HOME MODE icon  and DISARM icon  keep on at the same time. The host will get into initialization and GSM network searching mode. After hearing two "di, di" beeps (about 25s later), it enters into normally working status. At this moment, one of the    lights on (it shows the current status of the system), GSM running indicator  blinks every 2s.

3.3 Enter Setting Mode

After the host getting into normal working status, press , and it comes with voice notification "Input password". Input password + OK comes with "Input command" as well as "di, di" two beeps. It means the host enters into the setting status. If you hear "di, di, di, di" four short beeps and voice notification of "input password", it means the password was wrong. Please input again.

Note:

- a) The system will respond with one "di" beep sound for confirming every finger touch on any digit or icon on the keypad. Press again if there's no beep sound responds.
- b) The light of SET button  on means the host is in setting status. The status will be quit if no operation within 15 seconds. Please Input password again when it exits setting mode. (Initial password is 1234)

3.4 Exit Setting Mode

In setting mode, the system will automatically exit after 15s without any inputs on keypad. You can press the  button again to exit setting mode immediately.

IV. Record/Play 10s Voice Message

The system can record a 10 seconds voice message. It will automatically play the voice message when you answer the alarm calls from the host.

4.1 Record Voice Message:

In setting mode, input "0 + ok", then record a 10 second voice message. Start from hearing "di" one beep sound and ends up with "di, di" two beep sounds.

4.2 Play Voice Message

In setting mode, Input "9 + OK" on the keypad to play the recorded voice message.

V. Setting via Touch Keypad

5.1 Setup 3 SMS/Call Alarm Phone Numbers

The system enables to setup 3 SMS alarm numbers and 3 calls alarm numbers. When the system in alarming, it will send out 3 SMS messages and then dial 3 preset cell phone numbers by turns.

1) Setup 3 SMS alarm numbers

In setting status, input "1/2/3 + phone numbers + OK"
For example:

To set cell phone number 13611111111 as the first SMS number, 13622222222 as the second, and the 13633333333 as the third, please setup by turns on keypad:

1	13611111111	OK
2	13622222222	OK
3	13633333333	OK

We suggest you to setup the first SMS number for receiving confirmation message.

2) Setup 3 call alarm numbers

In setting status, input "4/5/6 +phone numbers +OK"
For example:

To set cell phone number 13644444444 as the fourth call alarm number, 13655555555 as the fifth, and the 13666666666 as the sixth, please setup by turns on keypad:

4	13644444444	OK
5	13655555555	OK
6	13666666666	OK

Note:

The system will respond with “di, di” two beep sounds after confirming with OK. If the beep sound is incorrect, it means the input is not right, please input again.

5.2 Delete Existed Alarm Phone Numbers:

In setting status, input serial number (1/2/3/4/5/6) + OK.
For example, you want to delete the second SMS number, please touch and input password, and then input “2 OK”.
Please delete alarm numbers as following table:

1 OK	4 OK
2 OK	5 OK
3 OK	6 OK

Once deleting number successfully, the host will send out a SMS message to the first alarm number for confirmation.

5.3 Use the Host to Make Phone Calls

In working status, press  to make it light on, then input "phone number + OK".
For example: call 13600000000, press " 13600000000 OK".
The light of  keeps on during the call. Touch  again to hang up the phone. The  light turns off at the end of the call.

5.4 Modify Password (Initial password is 1234)

The system is able to setup master password and sub-password.
Master password: with this password, user can do all the setups for the system.
Sub-password: only can disarm through touch keypad.
In setting mode, input "71 + new master password" to modify master password.
In setting mode, input "72 + new sub-password" to modify sub-password.

Note:

The password can be any one from 1 to 6 digits. The host will make two “beep” sounds after modifying successfully.

5.5 Setup NO/NC Alarm Mode of Wired Zone (Initial setting is NC alarm)

- a. Set NO alarm: 80OK
- b. Set NC alarm: 81OK

5.6 Turn On/Off External Power Failure Alarm (Initial setting is on)

- a. Turn off power failure alarm: 82OK
 - b. Turn on power failure alarm: 83OK.
- The system enables to send SMS messages to alert user when power failed or recovered.

5.7 Turn On/Off Siren Sound When Arm/Disarm by Remote Controllers (Initial setting is off)

- a. Turn off: 84OK
- b. Turn on: 85OK

5.8 Turn On/Off SMS Notifications When Arm/Disarm by Remote Controller/Touch Keypad (Initial setting is off)

- a. Turn off: 86OK
- b. Turn on: 87OK

Note: Only when the system gets into setting status, the above operation from 5.4 to 5.8 by keypad is valid. It ends up with two "di, di" beep sounds to confirm the setting successfully.

5.9 Learn/Delete Detectors

The system comes with 24 common wireless zones and 6 fire zones. Besides, it's also able to work with 14 remote controllers and 6 panic buttons.

1) To get into the learning mode:

Make sure the host is under “disarm” status (with the  light on). Enter the setting status (with the  light on), then touch the icon  on the keypad, input “zone number + OK”, comes with two di, di” beep sounds, the icon “OK” flashes twice. This means you have entered the learning mode successfully. Then trigger the detector:

- a. To trigger a beam sensor:
Press down tamper key of the beam receiver and hold it on, then turn on the power switch to make a RF sending.
- b. To trigger a remote controller (Y01):
Press the any button of Y01 to make a RF sending.

2) Learning result:

- a. The  LED light will turn off if learnt successfully.
- b. If the system comes with 3 quick beep sounds as well as icon  flash twice, it means the sensor has been learnt already in other zones or your operation is error. Please learn again.

Note:

- a. When doing the learning, please always make sure the system is under “disarm” status”, and it has entered the setting mode.
- b. In case of confusing, please mark the beam sensors with zone numbers before doing the learning operation.
- c. The “zone number” should always be two digits from “01-50”. Please learn the sensors/remotes into the correct zone number according to the following table:

Zone number	Sensors or Accessories
01 - 24	Wireless Sensors
25 - 30	Smoke/gas sensors
31 - 45	Remote controllers
46 - 50	Panic buttons

3) Delete sensors:

Press SET button (the button is on the back of the panel), the light of  will turn on and come with a “di” beep sound. Input "the sensor's zone number + OK". When the  light off and comes with two "di, di" beep sounds, it means the sensor has been deleted successfully. For example: Input "08 OK", the sensor in zone 8 will be deleted. (Don't need to get into setting mode.)

4)Delete all sensors

Keep pressing SET button for 20 seconds, until the  icon from light on to light off. Then alarm host will make two “di, di” beep sounds to indicate deleting successfully.

Note:

Before learning new sensors or accessories to the zone that already learnt a sensor, please delete the original one first. If not the new one will cover the original one automatically.

5.10 Arm/Disarm via the Host Keypad

a) Arm the system

Touch the  icon on the host. The host will make "di" beep and "Arm" voice notification, and the  indicator will flash at the same time. The host will enter into arm status after 30 seconds.

To enter the arm status immediately, touch the  icon again. The light of  indicator will keep on after entering the arm status successfully.

b) Home arm mode

Touch the  icon. The host makes a beep sound and comes with "home mode" voice notification. The icon  LED indicator keeps flashing for 30 seconds until the host get into home arm mode. To enter the home arm status immediately, touch the  icon again. The light of  indicator will keep on after entering the home arm status successfully.

c) Disarm the system

Touch the  icon, the host will ask for the password with "input password" voice notification. Enter the correct password, the host will be disarmed immediately.

VI. SMS Operation

Please note that all commands are case sensitive.

6.1 Setup Alarm Numbers by SMS

SMS Format: "Password + DD + 1st SMS alarm number, 2nd SMS alarm number, 3rd SMS alarm number, 1st calling number, 2nd calling number, 3rd calling number"

For example, set 13611111111 as the 1st SMS alarm number, 13655555555 as the 2nd calling number, then send SMS:1234DD13611111111,,,,,13655555555

Note:

- User can setup 3 SMS numbers and 3 calls numbers by sending one SMS command.
- User should use a comma to separate each phone number, and the last number is unnecessary to add comma.

6.2 Delete Phone Numbers

SMS Format: Password + DD + *,*,*,*,*

Note:

- Each "*" means an alarm SMS number or calling number accordingly. If need to delete 1st alarm SMS number and the 3rd alarm calling number, the command should be: 1234DD*,*,*,*

6.3 Inquiry the Preset Alarm Numbers

SMS Format: Password + DD

The preset numbers will be replied to the 1st alarm SMS number.

6.4 Set/Inquiry Password of the Host

a) Set password via SMS

The alarm host can be set two groups of passwords. One is master password and the other is sub-password.

SMS format:

"Master password + PW + new master password", "+ new sub-password"

For example:

Initial master password and sub-password are 1234. To modify master password as 8888, and sub-password as 0000, send: 1234PW8888,0000

The system will reply with the new password to the first SMS alarm number.

b) Inquiry sub-password

Send SMS: master password + PW

For example: If your current master password is 8888, and the sub-password is 0000, then send: 8888PW

The host will send message to the first SMS alarm number with the master password and the sub-password.

6.5 Arm/Disarm command

Arm: Password + A1 Disarm: Password + A2

For example: Initial password is 1234. Arm remotely by sending SMS: 1234A1

Alarm host replies with "Panel armed". The message will be sent to the 3 alarm SMS numbers.

6.6 Inquire Arm/Disarm Status and External Power Status

SMS Format: Password + W1

The arm/disarm status and external power status will be sent to the 3 alarm SMS numbers.

6.7 Change Zone Name

SMS Format: Password + DM + Zone number (01 to 50) + New zone's name

For example: Initial password is 1234. To set zone 06 as "Driveway alarm", then send SMS: 1234DM06Driveway alarm

The new zone name will be sent to the first alarm SMS number once changed successfully.

Note:

New zone name should be 1-31 characters.

6.8 Inquire Changed Zone Number

SMS Format: Password + DM

The zone number will be sent to the first alarm SMS number.

6.9 Inquire Changed Zone Name

SMS Format: Password + DM + zone number (01-24)

Zone number and changed zone name will be sent to the first alarm SMS number.

6.10 Change Installation Address

SMS Format: Password + DM + 00 + New installation address

For example: Modify installation address as My Home Address. Then send:1234DM00My Home Address

Note:

New installation address should be within 1-31 characters.

6.11 Set home arm mode (Initial setting is all the zones are home arm mode)

User can setup part of the zones in arm mode and the other zones in disarm mode. It's a user-friendly alarm system.

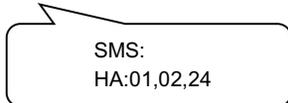
SMS format: Password +HA + zone number (01-24)

Note:

Multiple zones can be set to be home arm zone at one time. Please use a comma to separate each zone number.

For example: To set zone 01, 02, 24 as home arm mode, send SMS: 1234HA01,02,24

The first SMS number will receive a message:

A screenshot of an SMS message in a white rounded rectangle with a black border. The text inside reads "SMS:" on the first line and "HA:01,02,24" on the second line. A small black arrow points from the top-left corner of the rectangle to the text.

SMS:
HA:01,02,24

That means zone 01, 02, 24 have been setup to home mode zone successfully. Press  to enter the Home arm mode.

6.12 Inquire the Zone Number that Has Been Set as Home Arm Mode

Users can inquiry which zone has been set as home arm mode by sending SMS message.

SMS Format: Password + HA

All the home mode zone number will be sent to the first SMS number.

6.13 Setup Siren Alert Time (Initial Setting is 90 seconds)

The system is able to setup the siren alert time 1-254 seconds.

Send SMS: Password + ST + Time (0-254)

Note:

If you set time as 0, the system will alarm with silence alerting.

The setting time will be sent to the first alarm SMS number.

6.14 Inquire Siren Alert Time

SMS Format: Password + ST

The siren alert time will be sent to the first alarm SMS number.

6.15 Setup Delay Alarm Time (Initial is 0 second)

SMS Format: Password + DY + Time (0-60)

The time should be 0-60 seconds. If set time as 0, it means no delay.

The delay time will be sent to the first alarm SMS number.

6.16 Inquire Delay Alarm Time

SMS Format: Password + DY

The delay alarm time will be sent to the first alarm SMS number.

6.17 Six Languages for Optional

Chinese, English, Russian, Spanish, German, French for optional.

SMS Format: Password + LG + the number of language (1/2/3/4/5/6)

Note:

The number should be 1-6. 1-Chinese,2-English, 3-Russian, 4-Spanish, 5-German, 6-French.

For example: select English, send SMS: 1234LG2

The set language will be sent to the first alarm SMS number.

6.18 Inquire Current Language

SMS Format: Password + LG

"The current language" will be sent to the first alarm SMS number.

6.19 Turn On/Off Low Battery Alert of the Host

Turn off command: password + BL0

Turn on command: password + BL1

Inquire on/off status command: password +BL

After setting successfully, the first group of phones will receive a confirmation message from the host.

6.20 Wired Zones Set to NC/NO Alarm

Wired zone NC alarm command: password + IN0

Wired zone NO alarm command: password + IN1

Inquiry command: password +IN

After setting successfully, the first group of phones will receive a confirmation message from the host.

6.21 Turn On/Off the Power Failure Alarm Function

Turn off command: password + PF0

Turn on command: password + PF1

Inquiry command: password PF

After setting successfully, the first group of phones will receive a confirmation message from the host.

6.22 Turn On/Off Siren Alarm When Arming/Disarming

Turn off command: password + ADSR0

Turn on command: password + ADSR1

Inquiry command: password + ADSR

After setting successfully, the first group of phones will receive a confirmation message from the host.

6.23 Turn On/Off SMS alert When Arming/Disarming

Turn off command: password + ADSM0

Turn on command: password + ADSM1

Inquiry command: password + ADSM

After setting successfully, the first group of phones will receive a confirmation message from the host.

6.24 Turn On/Off Host Speaker Voice Notification

Turn off command: password + SPK0

Turn on command: password + SPK1

Inquiry command: password + SPK

After setting successfully, the first group of phones will receive a confirmation message from the host.

6.25 Set Delay Arming Time

SMS command: password +DLA+ time

Inquiry SMS command: password + DLA

Note:

a) When set to 0s, there is no delay time, and the effective range is "0-99" seconds.

b) After setting successfully, the first group of phones will receive a confirmation message from the host.

VII. Usage

7.1. Arm/disarm by remote controller

a) Arm: Press  on the remote, the host will make "di" beep and "Arm" voice notification. The Arm indicator will flash for 30 seconds and then enter the arm status. Then the Arm indicator will keep on.

Press  then , the host will make "di, di" beeps, and enter into arm status immediately.

b) Disarm: Press , host will make "di, di" beep sounds and "Disarm" voice notification. Arm indicator will be off, and the disarm indicator will be on.

c) Home arm: Press  on the remote controller, the host makes beep sound and comes with "home mode" voice notification. The icon  LED indicator keeps flashing until the system gets into arm mode after 30s. Then the light of  keeps on.

Press  then , the host makes two "di, di" beep sounds, and gets into quick Home arm mode.

d) Emergency alarm: When something emergency happen, press  button. The alarm host will automatically get into emergency alerting mode, start siren and send out alarm SMS and make calls recycle 3 times.

7.2 External Power Failure Alarm

When the external power failed for over 2 seconds, the host will get into alerting mode immediately, and send alarm message "External power fail". When the external power recovered, host will stop alarming and send SMS message "External power ok" to preset phone numbers.

7.3 Remote Arm/Disarm & Listen in By Dialing Alarm Host

Dial the alarm host with cell phone to control it. Host will automatically answer the call about 10 seconds later. Input password once get through. Host will hang up if password was wrong for 3 times. If password correct, start listen in automatically, and control host via phone key:

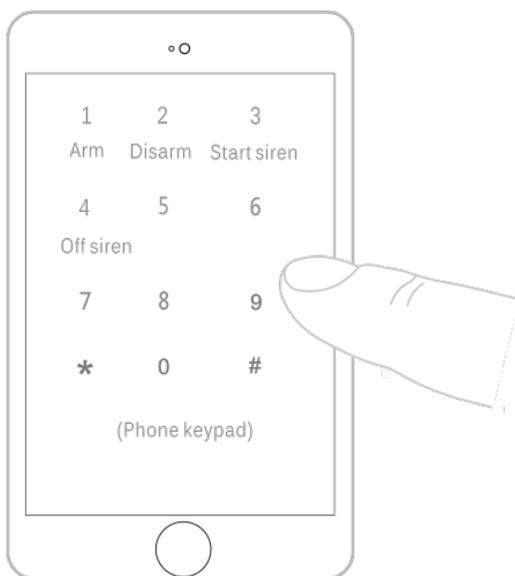


Figure 5

Note:

Host will hang up automatically 20 seconds later if there is no operation before input the password.

7.4 When Alarm Happens

When alarm happens, the host starts the siren to inform the householder or neighbors. At the same time, it sends out SMS messages and makes phone calls to preset numbers. If the phone call is unable to get through, host will dial the next alarm calling numbers circularly for 3 times unless it is answered and operated through one of the phone call.

User can remotely operate the host on phone keypad when answering the alarm phone. Once the user answers the phone call, the host will automatically play the 10 seconds voice message. Press "*" right after the voice message to start control the host: Press 1 to Arm, 2 to Disarm, 3 to start the siren, 4 to stop the siren.

7.5 Low Battery Alert

When the host detects that the battery is low, it will send "low battery alarm" to three groups of SMS alarm numbers every hour (will not dial).

VIII. Cautions, Please Read Before Using

1. Keep away from water.
2. Install the host at the place with good GSM signal.
3. To get the best RF range, please pull out the antenna completely and fix it to the upward direction.
4. Turn off the host when inserting/taking out the SIM card.
5. Connect power adapter well and keep good heat dissipation.
6. Do not install the alarm system close to the objects with strong interference, such as TV, computer etc.
7. Check the SIM card in the alarm host regularly (the GSM signal, balance etc.).
8. Check the GSM alarm system operation regularly.
9. Designed for indoor use.
10. It is recommended to disarm the host first when operating the touch panel. In the non-alarm state, the response time of the panel is about 200ms. While in the alarm state, the response time of the panel is about 1-2 seconds.
11. The installation height of the main unit should be more than 1 meter above the ground. Do not install the main unit on the metal material.
12. The installation location of the alarm host should be as open as possible, so that it can smoothly receive the alarm signals from each detector.
13. If the host is working, and this situation occurs: three lights of , ,  icons are on for a few seconds at the same time. It means the host network signal is abnormal and it is re-searching the network. Please check if the host has a SIM card or you have inserted the SIM card properly.