H3 GSM Alarm System

Main Features

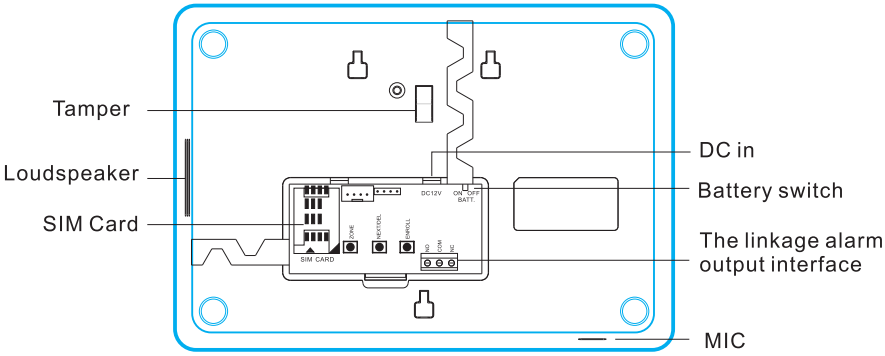
- Built-in industrial quad band GSM module, globally applicable. Send alarm via voice calling and SMS.
- Support 32 wireless zones. 3 detectors for each zone.8 zones attributes for zone 01-16: Delay, Burglar, Perimeter, Fire, Gas, Duress, Panic and Medical. zone17-32 are fixed burglar attribute.
- Zone 01-16 name are adjustable.
- Support 8 remote controllers maximum, support home arm, away arm.
- Support 3 program numbers, for authority management.
- Support arm/disarm in mute.
- Operates on IOS or Android system based smart phone.
- Multi-languages for optional.
- 8 alarm numbers. Alarm phone type can be set in SMS, dialing or SMS & dialing.
- Support door open/closed notification.
- Built-in siren, three levels of sound adjustment, support wireless siren.
- Wireless siren prompt for arming/disarming.
- Report of AC and battery power status, on/off optional.
- Arm/disarm report, optional on/off.
- Support remote operation by SMS for arm, disarm, monitoring.
- Support monitoring on-site.
- Support a set of linkage interface to connect with network camera and siren etc.
- With arm/disarm timer, can set based on weekdays and weekends.
- Built-in rechargeable lithium battery. Standby 8 hours at least.
- Record 30 pieces of latest alarm events. Support to query by date.

Front of panel

Indicator	Light On	Light Off	Fast Flashing	Slow Flashing
⏻	AC Power	Battery Power		Panel or detector battery low power
⌂	Away Arm	Disarm		Home Arm
🔔	Door open	No alarm	Alarming	
GSM	GSM working		GSM fault/GSM initialization failed	Weak or no signal of GSM

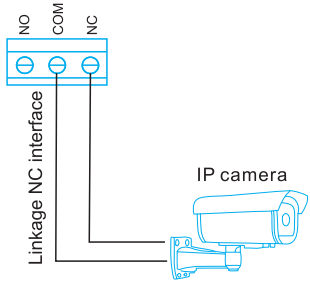
Indicator	Status	Illustration
ON	Long bright	Arm status
OFF	Long bright	Disarm status
00	Fast flashing	Tamper alarm or emergency of remote controller
01-32	Long bright	Door open
01-32	Fast flashing	Zone alarming
01-32	Long bright	Detector battery low power

Back of panel

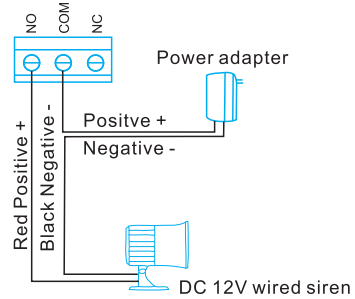


The linkage alarm output interface:

It can connect with wired siren, alarm light, linkage network camera etc. There are NC, NO, COM. The panel does not supply the power for wired siren and alarm light, users must take the power adapter by yourself.



Linkage IP camera



Connect with wired siren, alarm light

Illustration of beep

Beep	Illustration
A short "Di"	Enroll succeed,Arm succeed
A long "Di"	Fault operation,The accessory/RFID have been enrolled
Two short "Di"	Correct operation,Disarm succeed
A short "Di" per 1s	Arm Delay,Alarm delay
A long "Di" per 15s	Detector low power

Door Open/Closed Function

1. Door open/closed

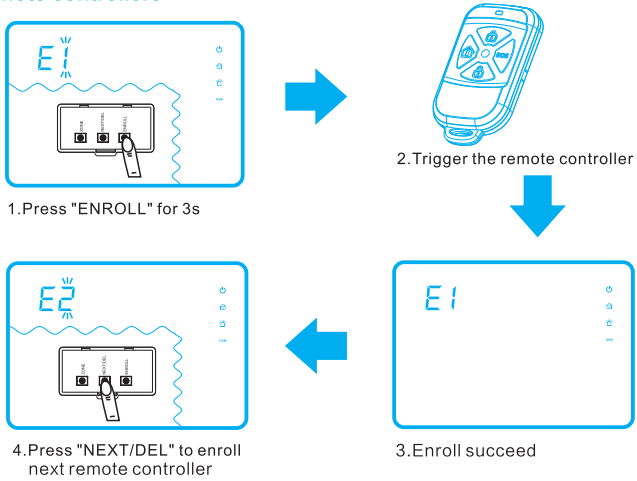
Users can make door open/closed setting for any zones, to avoid zones be armed when door's open. When door open/closed setting is enable, all doors/windows should be closed to make arm.

2. Force arm

When users want to arm the zones with open door, it needs to enable the arm compulsively function. Under arm compulsively, the zones with open door are disable. Only the door is closed, the zones will work normally.

Remote controllers

1: Enroll remote controllers



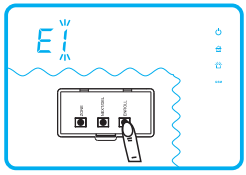
Note: If the indicator is long bright, it means this zone has been enrolled, the users have to delete it for new enrolling.

If hear one long “Di”, it means the remote controller had enrolled already.

Max 8 remote controllers can be enrolled.

2. Delete remote controller

In enrolling status, press “call” button 3s to delete the existing remote controller. After hearing two short “Di”, and the indicator turns to be long bright, delete succeed

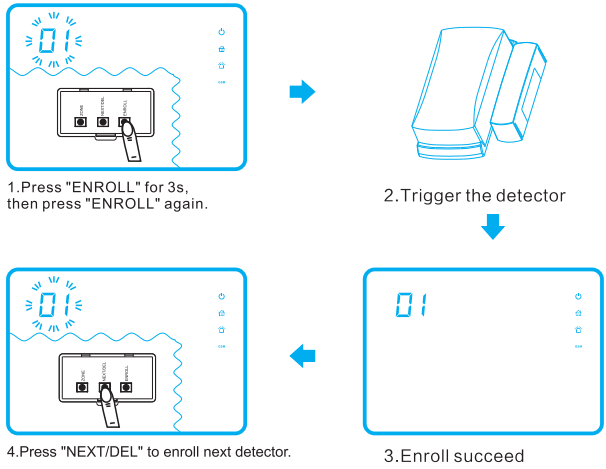


3. Exit remote controller enroll

In enrolling status, press “enroll” button 3 times to exit enroll status.

Detectors

1. Enroll detectors



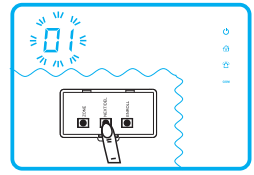
Note: If the indicator is long bright, it means this zone has been enrolled, the users have to delete it for new enroll.

If hear one long “Di”, it means the detector had been enrolled already.

Max 96 detectors can be enrolled.

2. Delete detectors

In detector enrolling status, press “call” button for 3s to delete the existing detector. After hearing two short “Di” and the indicator turns to be flashing, delete succeed.

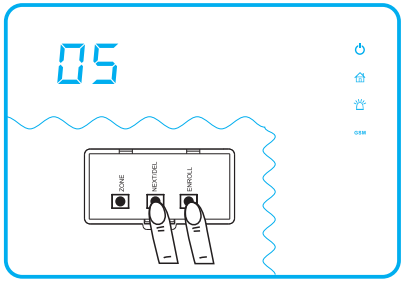


3. Exit detector enroll

In detector enrolling status, press “enroll” button twice to exit.

Daily operation

1. Query GSM signal

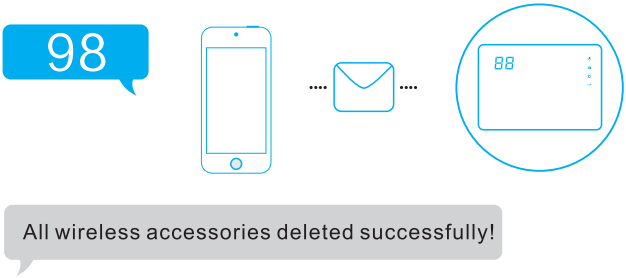


Press "ENROLL" and "NEXT/DEL" for 3s

Note: The signal level of GSM module is 0-5. 0 means no signal, the signal levels should be over 3 bars for normal working.

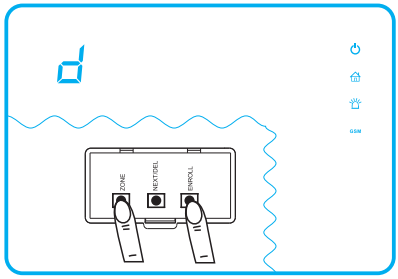
While installation, user can query GSM signal to find the better installation site.

2. Recover factory default of accessories.



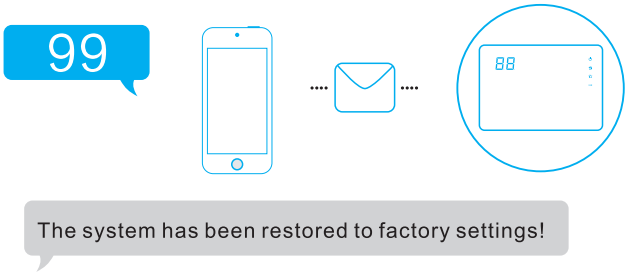
Recover factory default

1. Keys operation



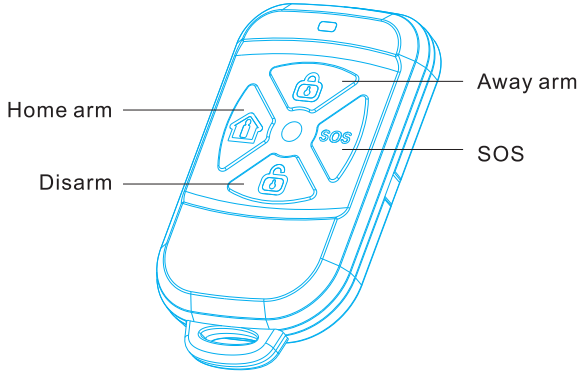
After panel power on,Press "ENROLL" and "NEXT/DEL" in 15s,until hear two short"Di" it means the panel is back to factory default.

2. SMS operation



Daily operation

1. Remote controllers



2. Arm/disarm in mute

When press home arm, the prompt volume will weaken, and the next operation volume will weaken too.

If users want to make mute arm/disarm by remote controller, just need to press home arm firstly, and then press away arm or disarm.

3. Response alarm

When alarm phone call comes in, after pick-up, the alarm voice is playing, after the alarm voice you have 10s to input your directives. If there is no respond, the panel will hang up after 3 times playing the alarm voice.

Note: When open monitoring, the system will close siren compulsively.

If no operation in 60s, the system will hang up.

Directive	Description		Directive	Description
1#	Away arm		6#	Close siren
2#	Disarm		7#	Open/Close monitoring
5#	Open siren		0#	Hang up

APP operation

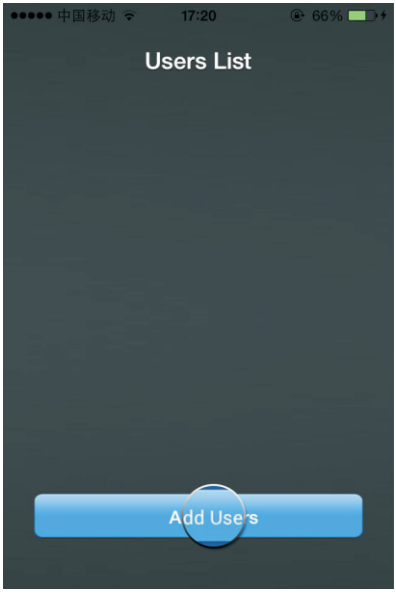
1. APP installation

Users can search the key words “H3”, “GSM alarm” on APP store and Google Play to download and install.

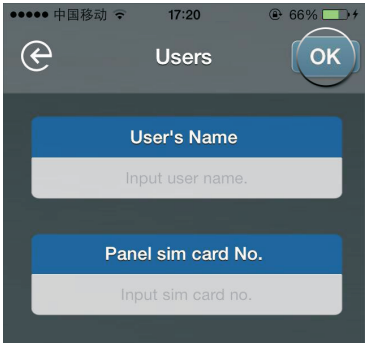
2. Register account

2.1. Enter the APP software.

2.2. Click the “Add Users” button to edit account information.



2.3. Input “User's Name”, “Panel SIM card No.” then click “OK”.



2.4. On the account list page, click “User's Name” to make operation and program. Long press “User's Name” to modify account information.

System operation and program

1. Registration

When you use the alarm panel at first time, after the GSM successfully initializing, and the GSM indicator is long bright, the alarm panel will open the auto login function without time limit. User can send a command message to the alarm panel, the alarm panel will adopt automatically the sending phone number as the first program number, and close the auto login function and send the message “your phone NO. has been registered successfully as first program NO.!” to users.

Users can refer to “program” setting when adding other program numbers.

2. Operation and Program

The alarm panel preset the default when leaving factory. The default meets the needs of most users.

Please input the punctuation by English input method.

When sending program SMS, please modify the content according the message format and range. Don’t add extra characters and space. And also don’t add or delete the line break and exceed the limitation of characters.

If the format of command message doesn’t meet the guidelines, users will get a message “setting failed, fault command format or illegal character” from the panel.

Help Menu

1. Query Operation

Users can send SMS “?”to the panel to query all operating instructions.

01:Away Arm
02:Home Arm
03:Disarm
04:Monitoring
05:Open Siren
06:Close Siren
07:Time Calibration
08:System Query

2. Programming Query

Users can send SMS “??”to the panel to query all programming instructions.

20:Program Phone
21:Alarm Phone
22:Info Report
23:Zone Type
24:Zone Name
25:Home Arm List
26:Delay Times & Dial Times

27:Siren Volume & Output Duration
28:Wireless Siren
29:Arm/Disarm Timer
30:Test Timer
31:History Query
33:Open/Close Door Set

1. System Language

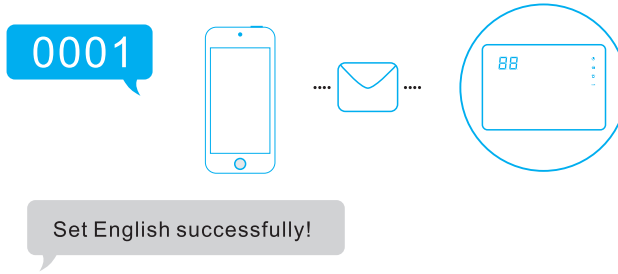
The alarm system supports multi-languages, users can send SMS to choose different languages.

Different alarm models contain different languages,please choose the alarm models a ccording the languages you need.

System Language	SMS Content	Panel's Reply
简体中文	0086	设置简体语言成功!
繁體中文	0886/0852	設置繁體語言成功!
English	0001	Set English successfully!
Tiếng Việt	0084	Thiết lập thành công Việt !
Nederlands	0031	Set Nederlands succes!
Türkçe	0090	Türkçe Ayarlar Başarılı!
Español	0034	Establezca el éxito español
Deutsch	0049	Einstellung erfolgreich!
Français	0033	Réglage en anglais réussi !
Italano	0039	Impostazione inglese riuscita !

1.1. Program Operation

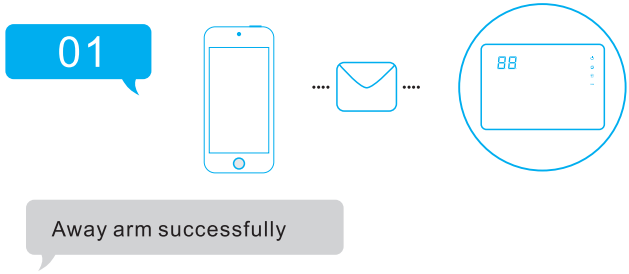
Set the alarm language as English.



System Operation

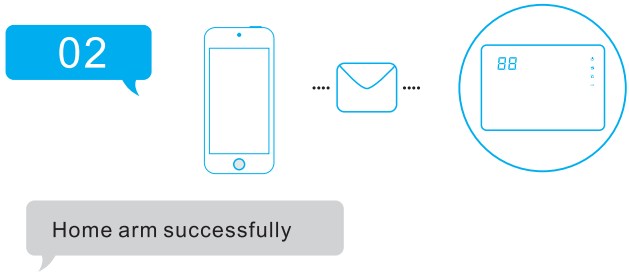
1. Away Arm

After away arm operation, all sensors are armed.



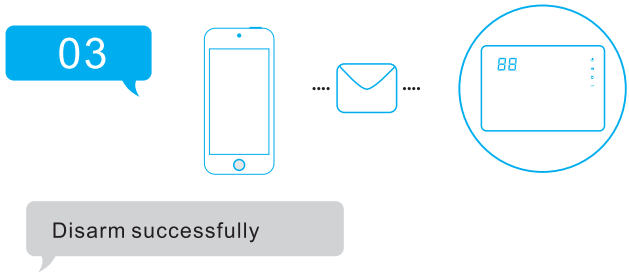
2. Home Arm

Home arm means user in house, wants to arm all sensors outside and disarm all sensors inside. Home arm list can be set as user's requests



3. Disarm

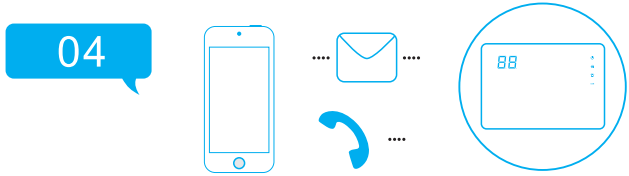
Disarm all sensors or terminate alarming.



System operation

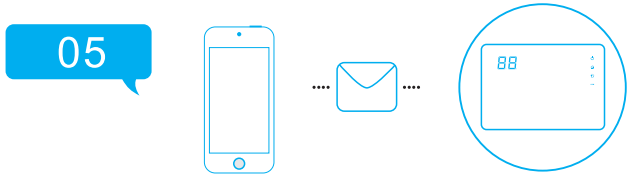
1. Monitoring

Users can send monitoring SMS to panel, and then panel will call back. Users can monitor after pick up the calling.



2. Open siren

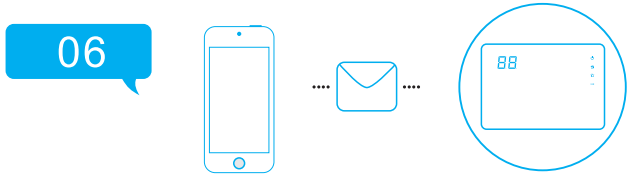
Activate built-in siren of panel, wireless siren and wired horn。



Open siren successfully

3. Close siren

Deactivate built-in siren of panel, wireless siren and wired horn.

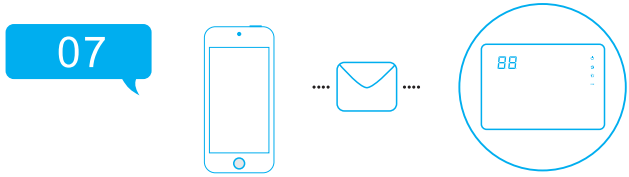


Close siren successfully

System operation

1. Time calibration

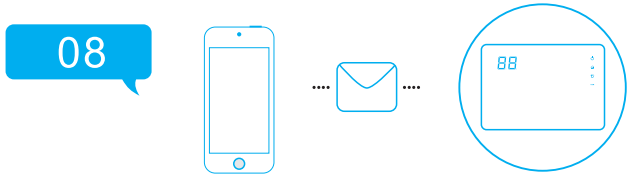
Set time of panel. The panel will automatically adopt the time which you sent this directive.



Time calibration successfully
YY-MM-DD xx(hr):xx(min):xx(s) x(week)

2. Status query

Query panel's time and arm/disarm status and other system status.



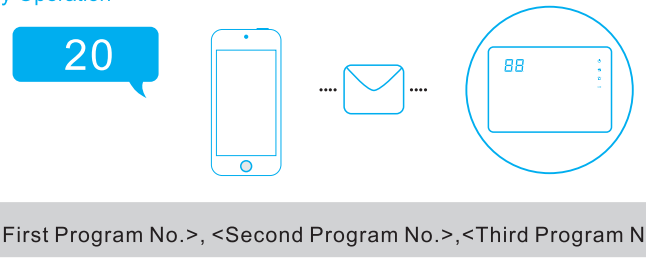
MM-DD xx(hr):xx(min):xx(s)
Status:Away arm/Home arm/Disarm
AC :Normal/Fault
Panel battery:Normal/Lower
GSM signal:0-5

System programming

1. Program number

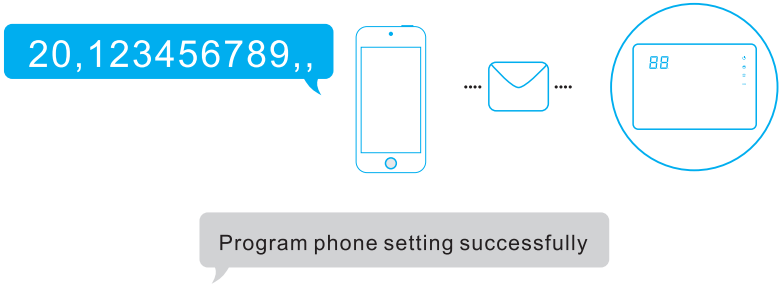
The Program phone number is authorized for operating and programming the panel by SMS. Panels only can be programmed by program phone numbers.

1.1. Query Operation



1.2. Program Operation

Set the first program number as 123456789。



Note: For deleting one of the phone numbers, just need to clear the exiting number.

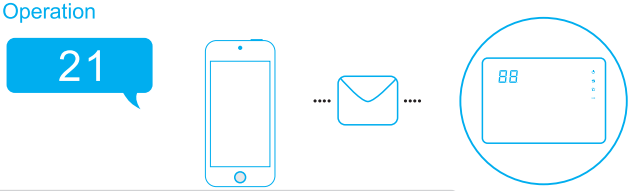
System Program

1. Alarm phone numbers

Note: When alarm happens, the panel will call preset phone numbers to inform users the alarm event.

The phone number type can be SMS, dialing, SMS & dialing

1.1. Query Operation



211,< First Alarm Phone No.>,< Second Alarm Phone No.>,
< Third Alarm Phone No.>,< Fourth Alarm Phone No.>

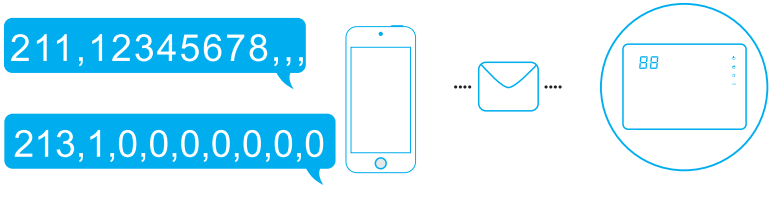
212,< Fifth Alarm Phone No.>,< Sixth Alarm Phone No.>,
< Seventh Alarm Phone No.>,< Eighth Alarm Phone No.>

213,< First Alarm Phone Type>,< Second Alarm Phone Type >,
< Third Alarm Phone Type >,< Fourth Alarm Phone Type >,
< Fifth Alarm Phone Type >,< Sixth Alarm Phone Type >,
< Seventh Alarm Phone Type >,< Eighth Alarm Phone Type >

Alarm Phone Type	
Number	Type
0	SMS
1	Dial
2	SMS & Dial

1.2. Program Operation

Set the first alarm phone number as 12345678，alarm phone type as Dial。



Alarm phone setting successfully

Alarm phone type setting successfully

Note: For deleting one of the phone numbers, just need to clear the exiting number.

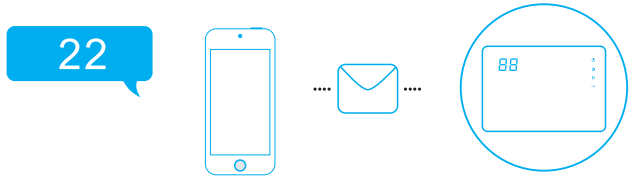
System programming

1. Information report

Report type can be SMS or Close.

System information reports include: AC fault, AC fault recovery、Panel low power and panel low power recovery, detector low power and detector low power recovery, testing timer。

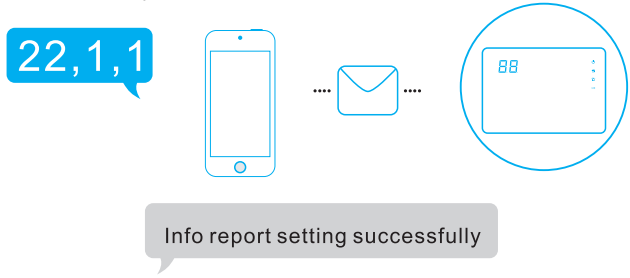
1.1. Query Operation



Info Report Type	
Number	Type
0	SMS
1	Dial

1.2. Program Operation

Open the information report function

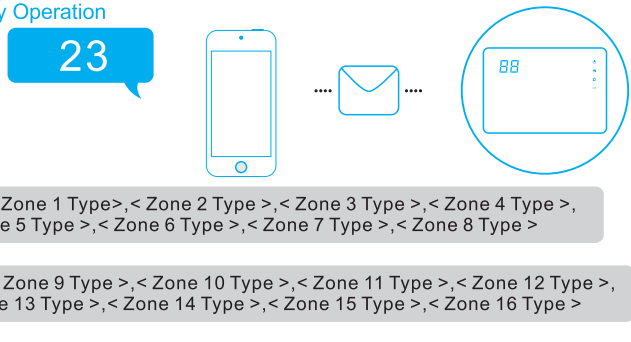


System programming

1. Zone type

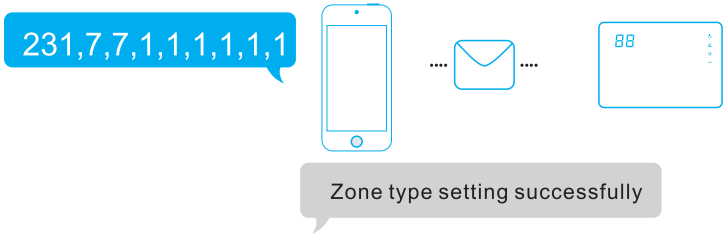
Eight zone types for zone 01-16: Delay, burglar, Perimeter, fire, gas, duress, panic and medical. Zone 17-32 are only burglar type.

1.1. Query Operation



1.2. Program Operation

Set the zone type of Zone 01, Zone 02 as medical type, others as burglar type



Zone type	Alarm delay	Siren	Arm	Disarm
Delay	√	√	√	×
Burglar	×	√	√	×
Perimeter	×	√	√	×
Fire	×	√	√	√
Gas	×	√	√	√
Silent	×	×	√	√
SOS	×	√	√	√
Medical	×	√	√	√

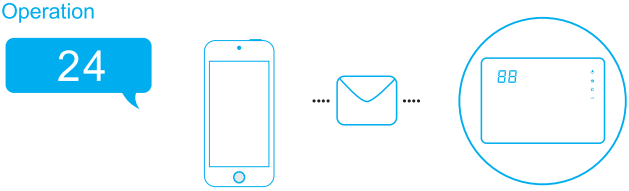
System programming

1. Zone name

Zone01-16 can be set a name, such as a detector name, sensor name or location name.

Zone name can be input 15 character max.

1.1. Query Operation



241,<Zone 01 Name>,< Zone 02 Name >

242, < Zone 03 Name >,< Zone 04 Name >

243,< Zone 05 Name >,< Zone 06 Name >

244,< Zone 07 Name >,< Zone 08 Name >

245,< Zone 09 Name >,< Zone 10 Name >

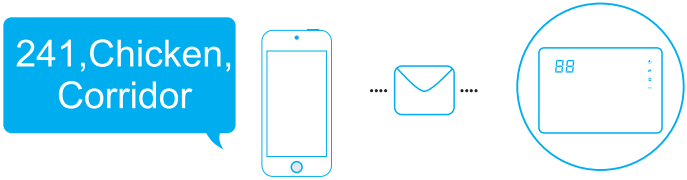
246, < Zone 11 Name >,< Zone 12 Name >

247,< Zone 13 Name >,< Zone 14 Name >

248, < Zone 15 Name >,< Zone 16 Name >

1.2. Program Operation

Set the zone name of Zone 1 as Chicken, and the Zone 2 as Corridor.



Zone name setting successfully

Note: For deleting one of the zone names, only need to clear the exiting one.

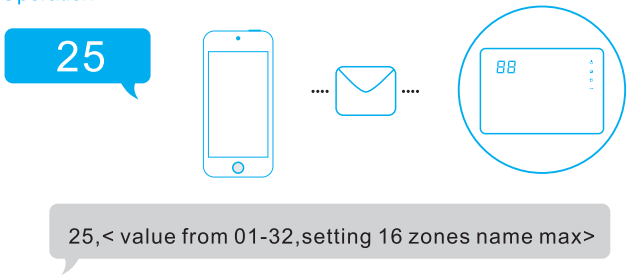
System programming

1. Home arm list

Set zone list for home arm.

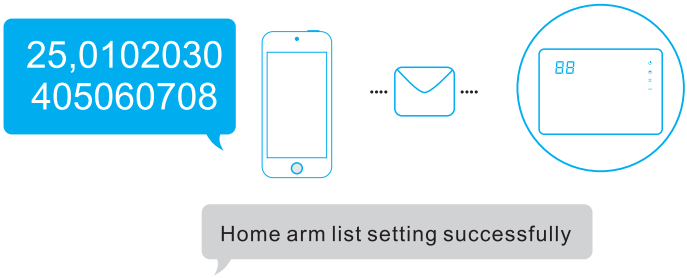
Every Zone number is fixed as 2 digits.

1.1. Query Operation



1.2. Program Operation

Set the Zone 01-08 in the home arm list.



System programming

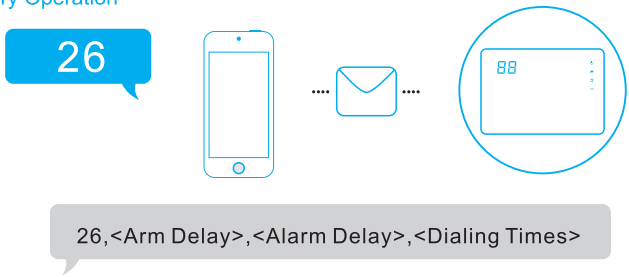
1. Delay time & dial times

Arm delay: The time between arm and the panel in armed status.

Alarm delay: The time range that is from the alarm triggered to the alarm activates.

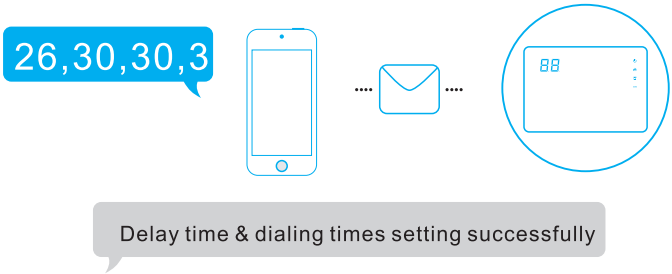
Dial times: Times for re-dial all alarm phone numbers if no one pick up the phone.

1.1. Query Operation



1.2. Program Operation

Set arm delay and alarm delay time as 30 seconds, the dial times as 3 times.



Note: Arm Delay: 0-255 Second

Alarm Delay: 0-255 Second

Dialing Times: 0-15 Times

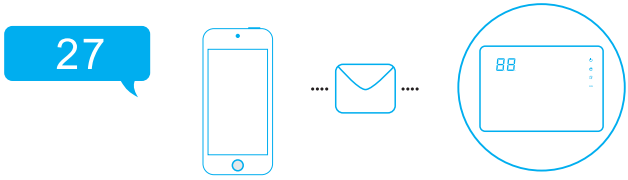
System programming

1. Siren volume & duration

Three levels volume for built-in siren.

Arm/disarm siren prompt via wireless siren and wired siren. Once for arm, twice for disarm.

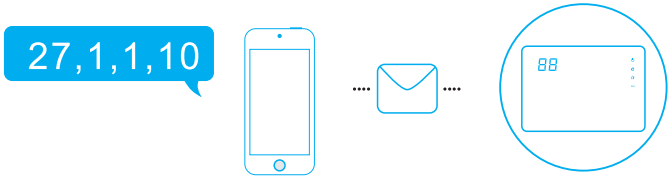
1.1. Query Operation



27,<Siren Volume>, <Arm/Disarm Siren Prompt>,<Output Duration>

1.2. Program Operation

Set the siren volume as Low, open the arm/disarm prompt, and the output duration as 10 minutes.



Siren volume & siren duration setting successfully

Note: Siren Volume: 0 Mute，1 Low，2 High

Arm/Disarm Prompt: 0 Close，1 Open

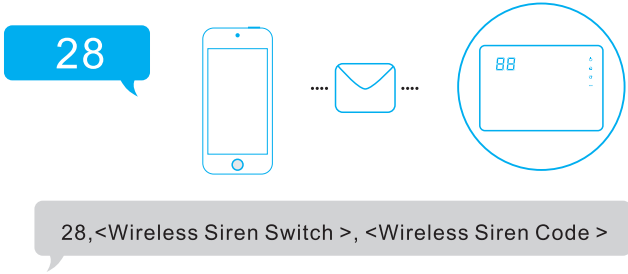
Output Duration: 0-255 Minutes

System programming

1. Wireless siren

Wireless siren should be from our company.

1.1. Query Operation



1.2. Program Operation

Open wireless siren，set wireless siren code as 12312312。

Note：Wireless siren Switch：0 OFF，1 ON

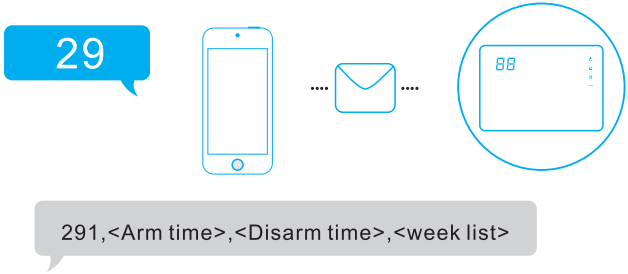
Wireless Siren Code：8 Figures，Value from 0-3

System programming

1. Arm/disarm timer

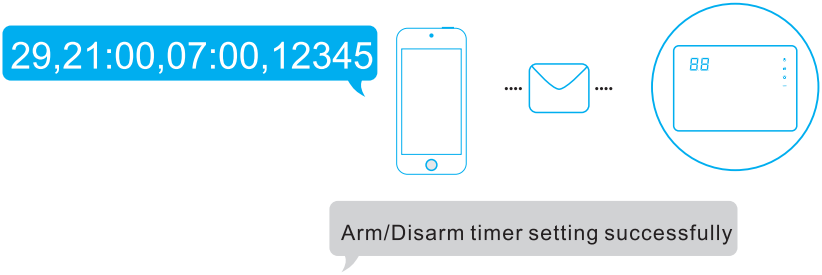
Set time and week list for arm/disarm timer.

1.1. Query Operation



1.2. Program Operation

Set the arm time as 21:00，disarm time as 07:00，week list as Monday to Friday。



Note：Arm time:（Hours：Minutes，24 Hours）

Disarm time:（Hours：Minutes，24 Hours）

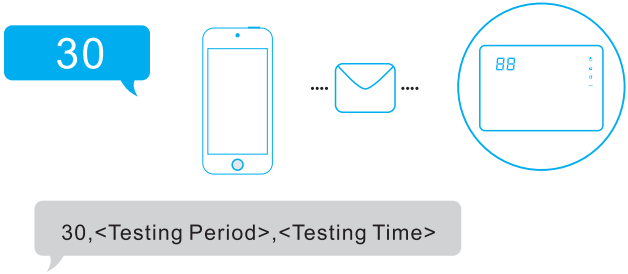
week list:（Value from1-7）

System programming

1. Test timer

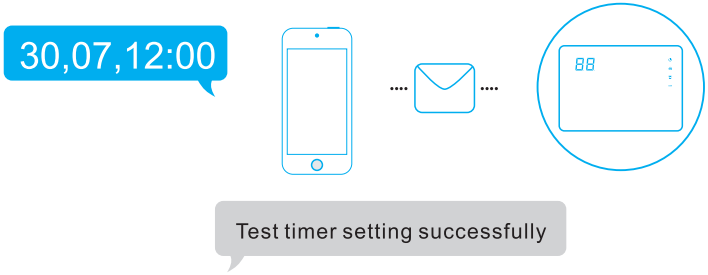
Note： Panel can notify users periodically to test if the panel works normally.

1.1 Query Operation



1.2 Program Operation

Set panel notices the user every 7 days at 12：00.



Note： Testing Period: 00-31 days

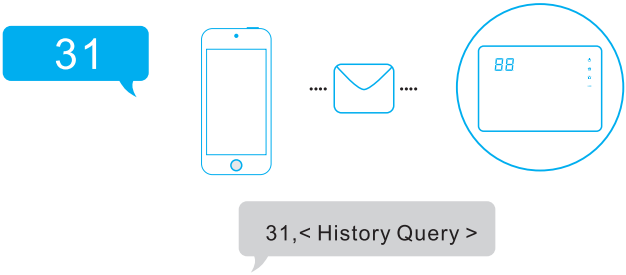
Testing Time: （Hours：Minutes，24 Hours）

System programming

1. Alarm record query

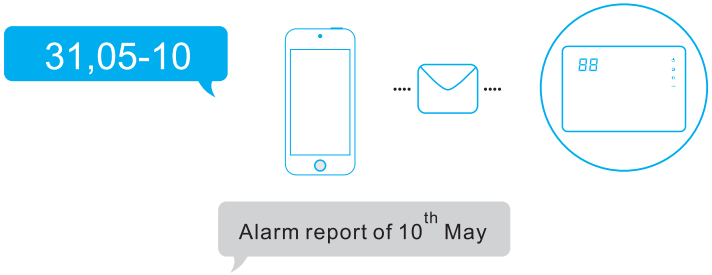
Note： User can query 30 alarm events via date.

1.1. Query Operation



1.2. Program Operation

Query the history record on 10th May.



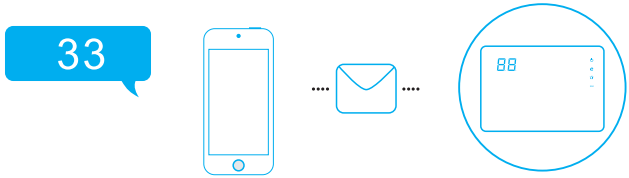
Note： History Query：Month-Day

System programming

1. Door's open/closed setting

Users can select zone list for door's open/closed setting or arm compulsively.

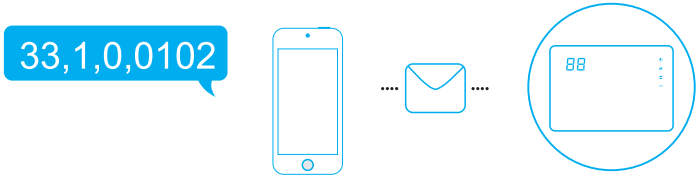
1.1. Query Operation



33,< Open/Closed Door Switch>,<Force Arm Switch>
< Open/Closed Door Zone List,Value from 01-32,Setting 16 zones max>

1.2. Program Operation

Open the door open/closed functions, and set the Zone 01 and Zone 02 as door open/closed zone.



Open door & close door setting successfully

Note：Open/Closed Door Switch：0 OFF，1 ON

Force Arm Switch：0 OFF，1 ON

Every Zone Number for Open/Close Door Zone list is fixed as 2 Digits

Technical Parameters

1. Alarm panel

Size:195mm×136mm×31mm

Power: AC 100V~240V

Battery: 7.4V/1200mAh

Output current of wired siren :< 150mA

Built-in siren :> 90dB (Max & within 1m)

GSM band:850MHz，900MHz，1800MHz，1900MHz

GSM emitting currency:≤2W(850/900MHz)，≤1W(1800/1900MHz)

Wireless working frequency: 433MHz

Wireless distance:

Between wireless PIR detector and alarm panel:≥400m(in the open area)

Between wireless door sensor and alarm panel:≥200m(in the open area)

Between wireless remote controller and alarm panel:≥100m(in the open area)

Between wireless siren and alarm panel:≥300m(in the open area)

Working temperature: -10℃ - +50℃ humidity: 40 ～ 70%

2. Remote controller

Power: Battery CR2016 2pcs (button battery)

Standby current:≤1uA

Transmitting power: ≤10mW

Transmitting frequency: 433MHz

The limitation this system

While this system is an advanced design security system, it does not offer guaranteed protection against burglar or fire or other emergency. Any alarm systems, whether commercial or residential, is subject to compromise or failure to warn for variety of reasons.

For example:

1. Owing to the omission of the user, the system was not armed.
2. Misunderstanding on the user's manual by the user or installer causes the abnormal working of the system.
3. Intruders may gain access through unprotected openings or have the technical sophistication to bypass an alarm sensor or disconnect an alarm warning device.

   Passive Infrared Motion Detectors can only detect intrusion within the designed ranges as diagrammed in their installation manual. They do not provide volumetric area protection. They can not detect motion or intrusion that takes place behind walls, ceiling, floors, closed doors, glass partitions, glass doors, or windows.
4. Passive Infrared Detector sense changes in temperature; however, as the ambient temperature of protected area approaches the temperature range of 30℃ to 40 ℃, the detection performance will decrease.
5. It is exiting no-power or battery-aging.
6. Alarm warning devices such as sirens, bells or horns may not alert people or wake up sleeper if they are located on the other side of closed or partly open doors.
7. Telephone lines needed to transmit alarm signals from a premise to a central monitoring station may be out of service or temporarily out of service. Telephone lines are also subject to compromise by sophisticated intruders.
8. The most common cause of an alarm system not functioning when an intrusion or fire occurs is inadequate maintenance. This alarm system should be tested weekly to make sure all sensors and transmitters are working properly.
9. The wireless communication distance is the testing figure in open area. Please make sure no obstacle in the surrounding environment to guarantee the reliability of the wireless communication distance farther.

The limitation this system

11. The weak network signal may be caused by adjusting of carrier, busy network or unavailability of SIM antenna.
12. If you disagree with the above mentioned items, please return the alarm system to our company within 3 days from purchasing. Installing an alarm system may make one eligible for lower insurance rates, but an alarm system is not a substitute for insurance. Homeowners, property owners and renters should continue to act prudently themselves and continue to insure their lives and property.