99 Wireless +4 Wire Zones

LCD GSM Alarm System

User Manual

Preface

Thank you for purchasing our products. Please read through this manual before using this product so as to operate the product properly.

The GSM alarm system adopts the newest GSM network and Digital Signal Processing Technology, and it is widely used in security field. With SMS data transmission and voice platform of GSM network.

Perfect structure, convenient installation, easy operation with wireless control keyboard are designed for the idea of people-oriented, which will make you feel easy and comfortable while use this system. You only need to install the different sensors on the door or window,and preset necessary data on the panel. When any sensor is activated under arm status, the system will call and send SMS to owner's telephone number immediately. What you need is to insert a local SIM Card which supports Call ID function and 2G network

Note: More and more people are using 3G/4G sim card, please consult with your local SIM carrier whether it can be compatible to previous 2G network. If yes, this kind of 3G/4G SIM card can be used in our system.

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Brief Function

1.Built-in Newest GSM MODULE from famous supplier SIMCOM with 850/900/1800/1900MHZ frequency
2.Large LCD English blue back-light display, voice prompt, ease of use
3.With 99 wireless zones+4 wired zone totally
3. Preset max 6 group of alarm numbers, and program them freely to alarm with call only, or SMS only, or call+SMS
4.User can set zone type itself to 24hours alarm zone, burglarproof zone, delay alarm zone, home arm zone, Multi checked zone, Delay alarm zone, Bypass zone, Repeat triggered zone
5.Record a 10 second voice with alarm information in the host, played after user answer the alarm call
6.It can be compatible to CID protocol
7.Auto switch to built-in back up battery for external AC power failure
8.5 group of timely arm/disarm
9. SMS alert when AC power lost or recovered
10. Customized zone name freely by user via SMS

Specification

Rated Voltage: 9~12VDC 1A
Standby current: 30-40mA
Siren Output Voltage: 12VDC
Working temperature: -10℃～+55℃
Humidity: ≤ 95% (no condensation)
Stand-by power consumption: ≤0.6W
Alarm response time:less than 8s
The volume of siren :more than 115db

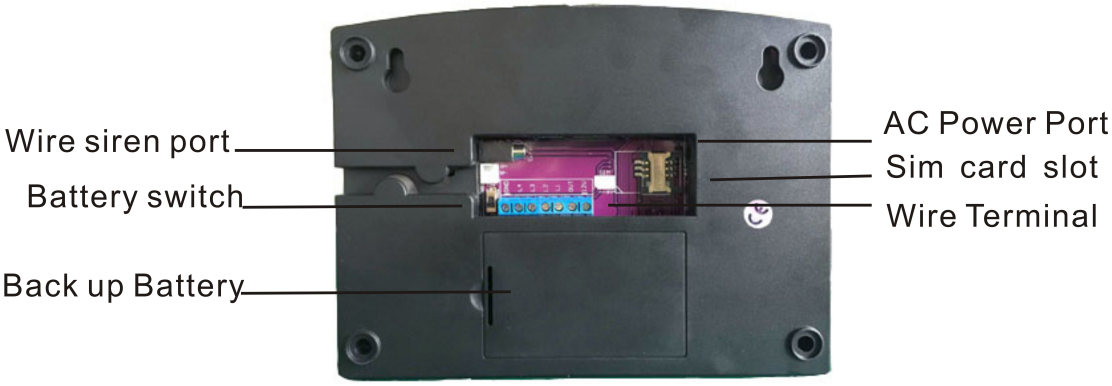
About the main panel

The main panel should be installed in the center of prevent place which could receive the signal very well from all wireless sensors. Please attention to keep the main panel away from metallic objects, steel-reinforced concrete, fireproof door, home appliance or any electricity device with high frequency interference

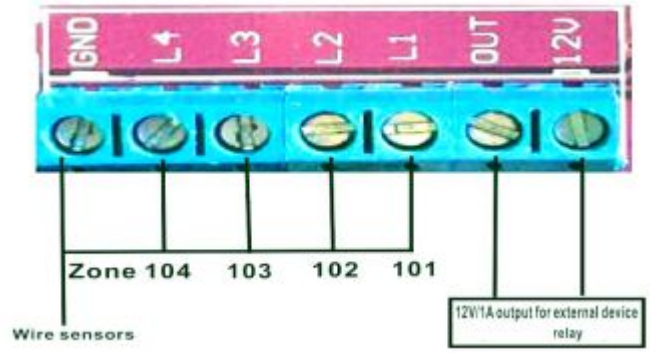
1.Front instruction

Power: It will be on after you connect AC power or switch on back up battery
Arming : It will be on if the system is away armed
Home : It will be on if the system is home armed
GSM: Disconnected GSM network with quick flashing.1 time each second
Connected GSM network with slow flashing, 1 time every 3 seconds
SET: It will be on under the status of programming
ALARM: it will be on when the system is alarming
It will flash when the system is armed

2.Back instruction



3. Wire terminal diagram



Initialization

Please insert the prepaid SIM card carefully at the back of main panel,and then plug in AC power.(If you want to recharge the back up battery, you need to switch on firstly and then plug in AC power)

The LCD display will show [F5]→[F6]→[Signal strength] one by one after you power on the system. It means the system is connected to GSM network. And the GSM LED indicator will flash slowly 1 time every 3 seconds

System setting

All the settings can be carried out under the disarmed status with a long 'DI' for all the proper operations. while two short sounds for wrong settings

1.External siren volume adjustment

Under the disarm status, User can program the following command to adjust the volume of siren. The X is bigger, the sound will be bigger too.Finally press [#] again to end this operation. You will hear a long 'DI' sound to show correct setting.

Command:[#]→[0]→[X]→[#]

X=1-9: External siren sound will be bigger for bigger number

X=0: External siren sound will be off

2. Human voice on or off

User can close or open the human voice reminder as per your needs.

Command:[*]→[0]→[4]→[X]→[*]

X=1: Voice will be off

X=0: Voice will be on

3.Tone of arm and disarm setting

The external siren will give off response tone for each arm and disarm

Command:[*]→[2]→[X]→[*]

X=1: Enable siren response for arming and disarming

X=0: Disable siren response for arming and disarming

4.Telephone alarm numbers setting

User can preset max 6 groups of telephone alarm number,which the system will auto dial or send SMS to after alarm happened

Command on the main panel: [#]→[X]→[telephone number]→[#]

X=1: The 1st telephone alarm number

X=2: The 2nd telephone alarm number

X=3: The 3rd telephone alarm number

X=4: The 4th telephone alarm number

X=5: The 5th telephone alarm number

X=6: The 6th telephone alarm number

Example: #118200986586# to set 18200986586 as the 1st telephone alarm number

5.Telephone alarm numbers type setting

User can set all 6 groups of alarm numbers as SMS alarm, Call alarm or SMS+Call alarm as per requirement

Command:[#]→[X]→[A]→[#]

X=(1-6): The series number of 6 group of telephone alarm numbers

A=2: Call alarm type

A=3: SMS alarm type

A=4: Call+SMS alarm type

Example: Set the 2nd phone number to SMS alarm type: [#]→[2]→[3]→[#]

6.Telephone alarm numbers deleting

User can delete any group of 6 telephone alarm numbers

Command:[#]→[X]→[[#]

X=(1-6): The series number of 6 group of telephone alarm numbers

Example: Delete the 2nd phone number : [#]→[2]→[#]

7.Alarm log inquiry

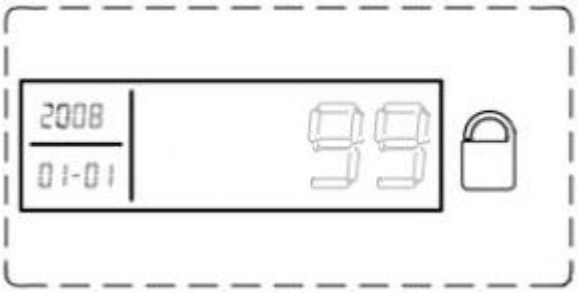
User can check the total 10 logs by press (0-9) numbers DIRECTLY on the panel on the disarm status

Command:[X]

X=(0-9), X=0: the latest log

X=9: the last log

Example: If you want to check the latest log, you can press 0, and found the LED indicator showing:



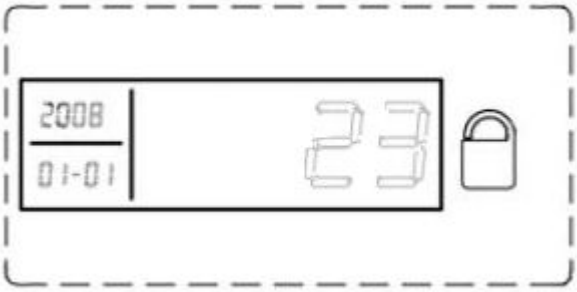
It means that the latest log is emergency alarm

8. GSM network signal inquiry

User can check the GSM signal before use on the main panel, so that the system can send alarm information successfully without any delay or missing.

Command:[*]→[9]→[4]→[*]

You will see the strength number on the LCD. If the number is less than 10, it means signal is bad. If the number is more than 30, it means no GSM signal. Bigger number means stronger signal for the numbers between 10 and 30



9.Zone type setting

User can set all zones with any kind of different zone type

Command:[#]→[8]→[A]→[B]→[#]

A=(1-104): zone number

Zone number	1-98	99	100	101-104
Wireless/wire zones	wireless zone 1-wireless zone 98	useless	useless	4 wire zone

B=(0-8): 8 kinds of different zone type

0: inactive

1:burglarproof alarm

2:home arm

3: emergency alarm

4: multi checked

5: delay alarm

7: double trigger

8: doorbell

Example: If you want to zone 15 to be home alarm type: [#]→[8]→[15]→[2]→[#]

Inactive zone: The zone will be closed
Burglarproof alarm zone: The sensors will trigger alarm under arming status, but it won't trigger Alarm under disarming status
Emergency alarm zone: No matter when the system is armed or disarmed, the sensors at emergency zone will trigger alarm. Which is mainly for smoke sensor, gas sensor, panic button etc
Home arm zone: The sensors at home arm zone won't trigger alarm under the home arm status, but other sensors will trigger alarm as normal
Multi checked zone: Only 2 or more sensors at the same zone are triggered within 30 seconds, it will trigger alarm
Delay alarm zone: The alarm only be started in the preset delayed time after triggered
Double trigger zone: It will alarm when the sensor is triggered twice within 5-30 seconds, otherwise it won't give off alarm
Doorbell: It won't give off alarm but "ding dong" doorbell sound for each trigger

10.Delay alarm time setting

The alarm will start after delayed time you set

Command:[#]→[7]→[A]→[#]

A=0-99 seconds, max 99 seconds

11.Delay arm time setting

The system will be armed automatically after delayed time you set after press arm button of remote control or main panel

Command:[*]→[4]→[A]→[#]

A=0-99 seconds, max 99 seconds

Note: If you press ARM button twice, the system will be armed quickly without delay

12.Password protection enabled

The panel will be protected by operation password in 26 seconds once you enable this function

Command: [*]→[1]→[1]→[*]

13.Password protection disabled

The panel won't be protected by operation password once you disable this function

Command: [*]→[1]→[0]→[*]

14.Operation Password

The panel will require user to input password before any operation if user enable the password protection

Command:[*]→[A]→[*]

A=password, 4 digits. The defaulted password is 0000

15.Coding /deleting remote control

Coding: User can press the command on the main panel, and trigger the signal out within 10 seconds by press any button on the remote control. You will hear a long DI sound to show coding successfully and LCD display showing 01. If you want to code second remote control, you can operate with the same way, and LCD display will show 02 accordingly

Command: [*]→[0]→[*]

Deleting: User can press the command on the main panel, You will hear a long DI sound to show ALL remote control will be deleted successfully

Command: [*]→[0]→[2]→[*]

16.Coding /deleting wireless sensor

Coding: User can press the command on the main panel, and send the signal out within 10 seconds by trigger the wireless sensor.You will hear a long DI sound to show coding successfully and LCD display showing its zone number. If you want to code more sensors, you can do it with the same way.

Command: [*]→[8]→[A]→[*]

A= zone number with 2 digits: 01,02,03,.....10.....98

Example: we need to add 2 wireless door sensor to zone 05, and zone 98. We can do like this: Press command [*]→[8]→[05]→[*], trigger the first door sensor. You will hear a long 'DI' sound to show coding successfully. And then press command [*]→[8]→[98]→[*], trigger the second door sensor, you will hear a long 'DI' sound too

Deleting: User can press the following command on the main panel, You will hear a long 'DI' sound to show deleting successfully

Command: [#]→[8]→[A]→[6]→[#]

A= zone number with 2 digits: 01,02,03,.....10.....98.

Example: we need to delete the wireless door sensor at zone 05. We can do like this: Press command [#]→[8]→[05]→[6]→[#] on the main panel. You will hear a long DI sound to show deleting successfully

Note: If we want to delete all wireless sensors for all zones, we can press command [#]→[8]→[99]→[6]→[#]

17.Call in ring times setting

The system will answer the call from user after preset "DU" ring times

Command:[*]→[6]→[A]→[*]

A= digits: 0,1,2,3..... ; 0 means to disable the call in function

Example: Require system to answer the coming call after 3 "DU" sounds, user can press command [*]→[6]→[3]→[*] on the main panel

18.Siren alarm time setting

User can set the siren alarming time with 00-30 minutes.

Command:[#]→[9]→[A]→[#]

A=0-30 minutes

19.New password setting

User can modify the system with new password in the case of forgetting the previous password

Command:[*]→[7]→[A]→[A]→[*]

A= new password with 4 digits .The defaulted password is 0000

Example: We need to modify the new password to 8585, we can press command [*]→[7]→[8585]→[8585]→[*] on the main panel

20.System reset

All data will be cleared, except for coded sensors

Command:[*]→[8]→[A]→[*]

A= password, default password: 0000

Example: Press command [*]→[8]→[0000]→[*], the system will be reset

21.Record setting

User can record 10 seconds voice to show alarm information including address, telephone number etc, which will be played on the alarm call

Command:[*]→[0]→[A]→[*]

A= system password

Example:Press command [*]→[0]→[0000]→[*] on the main panel firstly, and say something within 10 seconds near to panel about 20cm. It will quit automatically when time's out

22.System time setting

Before installation, user can set the correct time for the system as per the following command

Command:[*]→[0]→[7]→[A]→[B]→[C]→[D]→[E]→[*]

A= Year, 15 means 2015, 16 means 2016

B=Month, 01 means Jan, 10 means Oct

C=Day,11 means 11th ,08 means 08th,

D=Hour, 08 means 8 o'clock, 09 means 9 o'clock

E=Minute, 05 means 5 minute, 20 means 20 minute

Example, Set system time to 2016 years at 12:25 on Oct 13th, user can press the command [*]→[0]→[7]→[16]→[10]→[13]→[12]→[25]→[*]

Note: The system time will be clear if the system was off, so please switch on the battery for system in case of ac power failure

23.Timely arm setting

System supports max 5 groups of timely arm, it will be armed automatically everyday as per the time

Command: [#]→[0]→[7]→[A]→[B]→[C]→[#]

A=Hour, 08 means 8 o'clock, 09 means 9 o'clock

B=Minute, 30 means 30 minutes, 20 means 20 minutes

C=Group number, max 5 groups

Example: Require 2 groups of timely arm at 08:30, 20:30 everyday, user can press the command [#]→[0]→[7]→[08]→[30]→[1]→[#], and [#]→[0]→[7]→[20]→[30]→[2]→[#]
Note: if user want to cancel all timely arm, press command
[#]→[0]→[7]→[00]→[00]→[0]→[#]

24.Timely disarm setting

System supports max 5 groups of timely disarm, it will be disarmed automatically everyday as per the time

Command: [#]→[0]→[8]→[A]→[B]→[C]→[#]

A=Hour, 08 means 8 o'clock, 09 means 9 o'clock
B=Minute, 30 means half minute, 20 means 20 minute
C=Group number, max 5 groups

Example: Require 2 groups of timely disarm at 08:30, 20:30 everyday, user can press the command [#]→[0]→[8]→[08]→[30]→[1]→[#], and [#]→[0]→[8]→[20]→[30]→[2]→[#]
Note: if user wants to cancel all timely disarm, press command
[#]→[0]→[8]→[00]→[00]→[0]→[#]

25.Zone name edited by SMS

System can support max 9 groups of DIY zone name which is set by user via SMS on the mobile phone as per the following SMS command

SMS command:【password】+【group number 1-9 】+【zone name】
For example, we can send the following SMS to the system
'00001Door alarm'
'00002PIR alarm'
'00003smoke alarm'
'00004panic alarm'
Etc
0000 is the default password, 1 is the 1st group number, 2 is the 2nd group number, etc
Door alarm,PIR alarm,smoke alarm, panic alarm is the zone name you set freely
Note: zone name can be consisted of max 20 letters, including space

26.Zone name designation

User can designate the 9 groups of zone name to regulated zone as per the following command on the main panel

Command：[#]→[0]→[3]→[A]→[B]→[#]

A=zone number
B=1-9 group number of zone name

For example:
Require to designate the above 2nd of zone name: PIR alarm to zone 54, user can press [#]→[0]→[3]→[54]→[2]→[#]. If any sensor at zone 54 triggered, you will receive the SMS alarm : 54 defense area PIR alarm
Note: This function was done on the panel directly, not via SMS

27.Power failure/recovery SMS alert

Power failure: the system will send SMS “External power supply is disconnected, running on battery” and show L5 on the panel.

Power recovery: Send SMS“External power supply recovery” and show L6 on the panel.

Command: [*]→[0]→[5]→[A]→[*]

A=2, enable SMS alert for power failure and recovery

A=0, disable SMS alert for power failure and recovery

28.Disarm/Arm SMS response

User will receive SMS response when the system is disarmed or armed. The SMS will be sent to the **1st** of Group alarm number

Command: [*]→[9]→[A]→[*]

A=7, enable SMS response for armed and disarm operation

A=6,disable SMS response for armed and disarm operation

SMS response:“system is disarmed, home/away armed ”

29.Disarm/Arm programmed by SMS

User can send SMS command to arm the system remotely

SMS Command for Away arm:【password】+【SF】

Example: 【0000SF】

SMS Command for home arm:【password】+【BF】

Example: 【0000BF】

SMS Command for disarm:【password】+【CF】

Example: 【0000CF】

30.System status Query by SMS

User can send SMS command to check the system status remotely

SMS Command :【password】+【STATUS】

Example: 【0000STATUS】

31.12V voltage output start/stop by SMS

User can send SMS command to start or close the 12V voltage output at the back of 12V terminal remotely

SMS Command to start 12V output:【password】+【ON】

SMS Command to stop12V output:【password】+【OFF】

Example: 【0000ON】and 【0000OFF】

32.Handling the call alarm

In case of alarm happened, system will make a call to user one by one. Once the user answers it, firstly it will play pre-recorded alarm voice on the call, after that, user can program the following command

Press “1” to listen in

Press “2” to start siren

Press “3” to close siren
Press “4” to away arming
Press “5” to disarming
Press “6” to play records
Press “7” to start12V voltage output
Press “8” to stop 12V voltage output
Press “#” to confirm and hang up automatically
Note: If the user phone is busy or not able to connect, the system will dial next call alarm number until it is answered.

33.Remotely control by call

You can call the numbers of system from any phone remotely, and the system will answer It automatically after system detects the call in ring times you set before. When you hear the beep, please input passwords and the system will allow you to program as per the following command

Press “1” to listen in for 20 seconds
Press “2” to start siren
Press “3” to close siren
Press “4” to away arm
Press “5” to disarm
Press “6” to play records
Press “7” to output 12V electric power
Press “8” to close 12V output
Press “#” to confirm and hang up automatically

Note: when you hear ‘DI DI’ sounds when you input the password, it means the password is wrong. You can try to input another new password. If the wrong times is more than 3, or no any operation within 20 seconds, the system will hang up automatically

Understanding for CID protocol network

This system is compatible with CID protocol. This function is convenient to work with central monitor station (CMS)for community, building, factory or bank etc

1.Enable/disable CID protocol network

Once enable the CID network function, the system can work with CID international protocol center monitor station (CMS)

Command: [*]→[0]→[9→[A]→[*] *09 2/1/0 *
A=2/1/0
2:Enable, upload all alarm information, including arm/disarm information

1:Enable,upload alarm information, except for arm/disarm information

0: Disable

2.System ID for CID setting via SMS

User can set unique ID for each system to work with CID protocol CMS. This operation needs to set via SMS

SMS Command :【password】+【*】+【0】+【9】+【A】+【ID】+【*】

A= 4 digits

Example, if user wants to set 6868 as system ID for CID CMS, send SMS 0000*096868ID* to the system

3.Alarm code for CID protocol network station setting

CID defined that different alarm has its unique alarm code, so that CMS will recognize the alarm type according to the code

Command: [*]→[0]→[9→[A]→[B]→[*]

A=zone number (3 digits required)

B=CID alarm code (3 digits required)

For example,[*]→[0]→[9→[002]→[110]→[*] , 002 means zone 2, 110 is the alarm code of fire alarm, which is defined by CID protocol

Understanding for wire sensor connection

1.Enable/disable wire zone setting

User can disable or enable 4 pcs of wire zones as per the following command. Default setting is disable

Enable Command: [*]→[0]→[6]→[1]→[*]

Disable command: [*]→[0]→[6]→[0]→[*]

2.Wire zone No/NC type setting

User can set the wire zones with normal open type or normal close type as per the following command. (Default setting is normal open type)

Command: [*]→[9]→[A]→[B]→[*]

A=zone number from 101-104. 101 for L1, 102 for L2, 103 for L3, 104 for L4.

B=0/1/. 0: normal close. 1:normal open

Example: Require to set wire zone 103 to be normal close for wire door sensor, user can press the command on the panel [*]→[9]→[103]→[0]→[*]

3.Wire sensor installation:

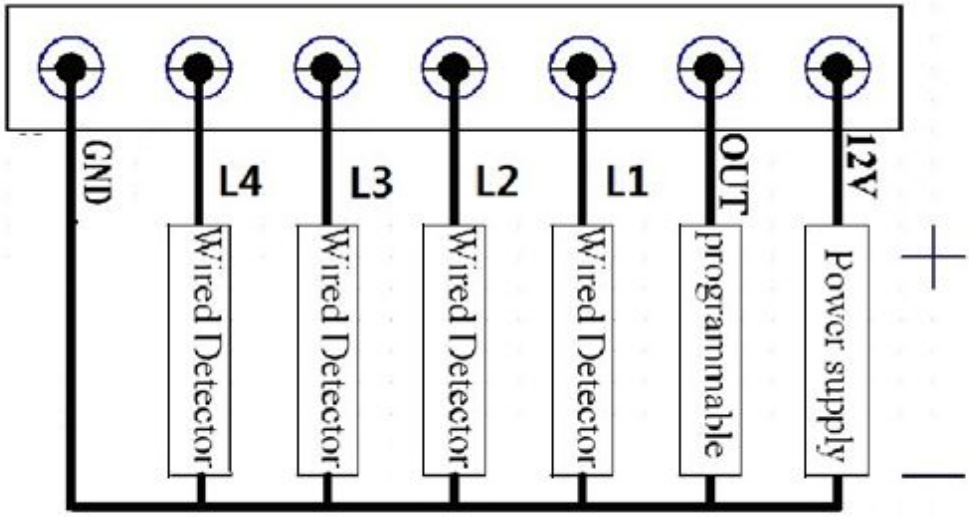
Take wire zone 104 with wire door sensor for example

Step 1: User need to enable the wire zone by command:[*]→[0]→[6]→[1]→[*]. The default setting is disable wire zones

Step 2: Program wire zone 104 with NC type by command [*]→[9]→[104]→[0]→[*]. Note:

most of wire sensor is with NC type

Step 3: Connect one wire of sensor to L4 port for zone 104, and the other wire to GND port



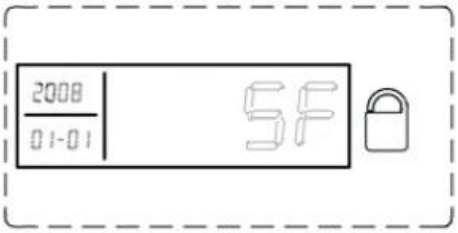
Understanding for mark on LCD

"SF": Away arm
"CF" : Disarm
"bF" : Home arm
"99" : Emergency alarm
"1-98" : Wireless zone1-98
"L1-L4" : Wired zone 101-104
"F3" : No SIM card
" F4" : GSM is unavailable
"F5" : Start GSM module to find GSM network
"F6": GSM network available

Note: If the system always shows F4, please power off the system,and restart the system.

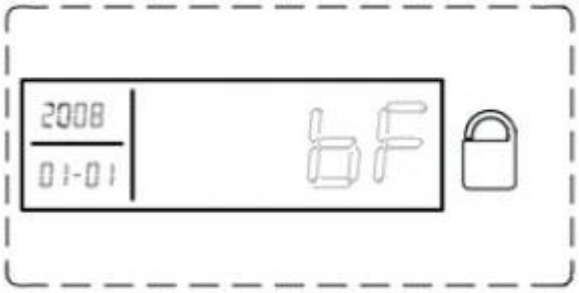
Understanding for arm/disarm/emergency alarm

1.Away arm



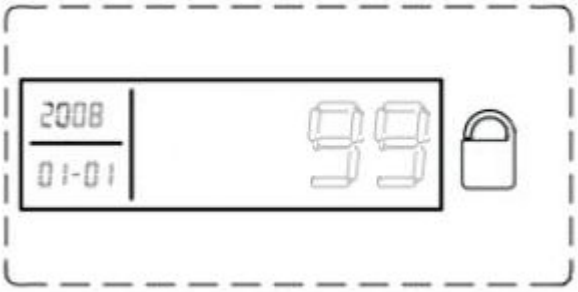
Press "🔒"button on remote controller or "🏠" button on panel and the system will be armed with BI tone and "ARMING" human voice. The system will alarm once any sensor is triggered under the status of away arm

2.Home arm



Press “⚡” button on remote controller or “🏠” button on panel, the system will be home armed with BI tone and and “intelligent defenses” human voice. The system won’t alarm for trigger at home arm zone under the status of home arm

3.Emergency alarm

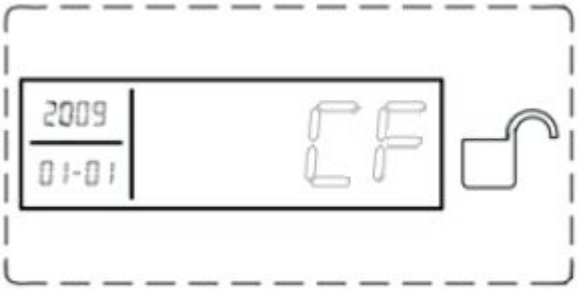


Press “🔔”button on remote controller 1 time, the system will show 99 flashing on the LCD display, and also start calling/SMS with silence. But if you press “🔔” button again, the siren will start at once

Press “🏠” button on the main panel, the system will start calling/SMS with siren sound and “emergency alarm” human voice

The system will alarm at once for any trigger at emergency zone no matter what it is armed or disarmed

4.Disarm



Press “🔒” button on remote controller or “🔓” button on panel and the system will be armed with BI BI tones or “DISARM” human voice. The system won’t alarm for any trigger under the status of disarmed, except for emergency alarm

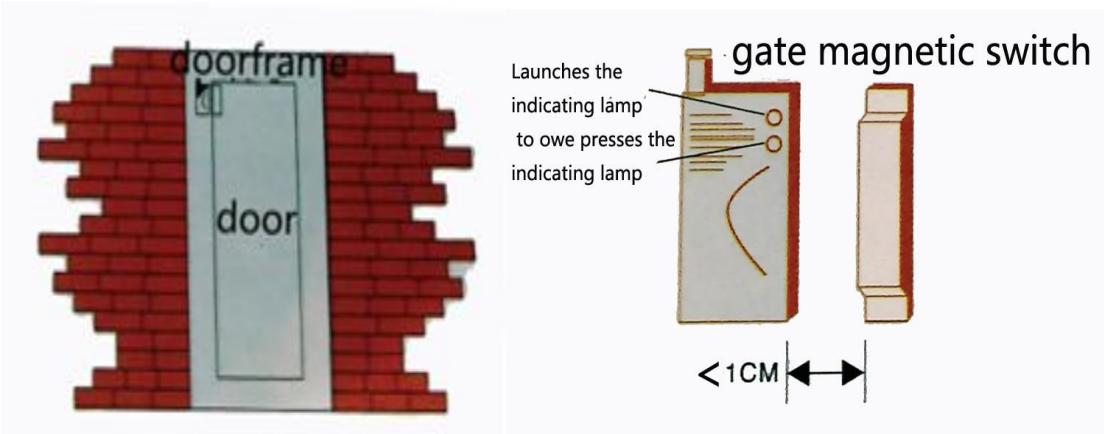
Understanding for basic wireless accessories

1.Wireless remote control

- To control the alarm host to arm and disarm
- With the emergency key for emergency help
- Operating power: 27A 12V alkaline battery
- Emitting distance: ≥100m (on the open area)
- Battery life: ≤1 year

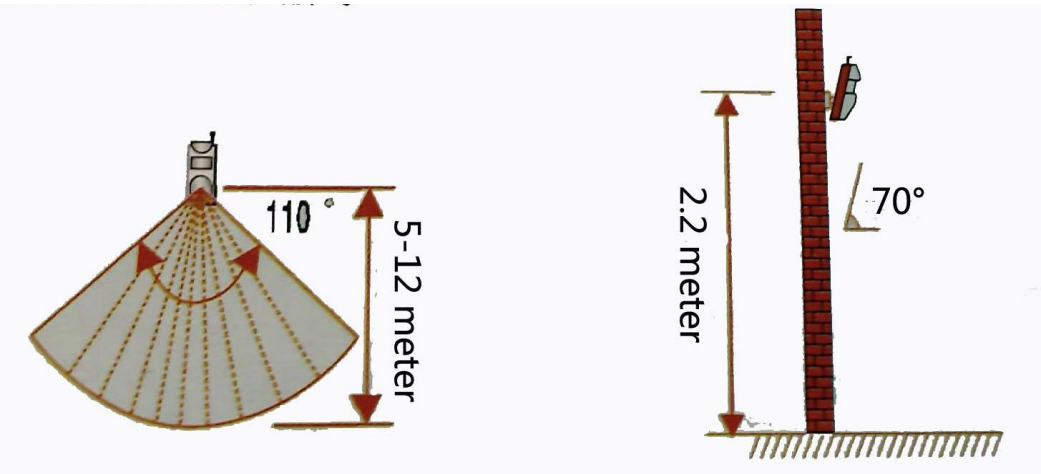
2.Wireless Intelligent Door Sensor

- Generally set at burglarproof alarm zone
- If any door or window is opened, it will transmit the alarm signals to the alarm host
- Operating power: 23A 12V alkaline battery
- Frequency: 433.92MHZ
- Emitting distance: ≥100m (on the open area)
- Battery life: ≤6 months for normal frequency
- Trigger Distance: ＜1cm



3.Infrared detector installation

- Mainly monitor and control indoor space, generally set as home alarm zone.
- When human body enters into detecting area, the sensor will transmit signals to the alarm host.
- Operating power: 9V alkaline battery
- Emitting distance: ≥100m (on the open area)
- Battery life: ≤1 year for normal frequency
- Detecting distance: 110° 10×10m
- Installation height :2.2meters



4. wireless outdoor strobe siren

- Installed outdoor, with weatherproof function
- Once alarm happened, the strobe siren will give off alarm with flashing light
- Wireless frequency: 433mhz
- Operating back up battery : 300ma NI-HI battery inside
- Emitting distance: ≥100m (on the open area)
- Siren index: 115db
- AC power supply :AC220V, 50mhz input.12V DC,0.5/1A output
- Stand-by: 1mA, working mode: 350mA

How to let siren work with system?

Firstly, plug in or switch on the battery of siren, you will see siren flashing quickly, which last only 6 seconds

Secondly, Press DISARM button on the system panel to send signal out within 6 seconds after siren flashing quickly

Thirdly, The siren will flash slowly after accepting the signal, and start alarming

Finally, user can press DISARM button again to stop siren alarming

Maintenance

Alarm system are in use everyday, but must also conduct regular maintenance periodic testing. In order to ensure the alarm system works well, the main panel needs to comprehensive detection every 3 months, detectors tested monthly

Host checking

1.Arm/disarm normally or not
2.Whether it can call or SMS after trigger sensor
3.Whether it can receive the signal from the sensor normally
4. Check regularly whether enough money in the SIM card

Sensor checking

1. Trigger detector by hand, check whether it can be triggered or not
2. Check the batteries every 3 months

Note

Don’t dismantle,repair or renovation products, otherwise any accidents happened
Don’t open the alarm system without permit for warranty items.if there is any questions about the operation, don’t hesitate to contact your local seller or manufacture by email. We or our agent will response to you within 24 hours

Thanks for your kind reading, and sincerely you will have a good time with our system protection

FCC Statement

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

-- Reorient or relocate the receiving antenna.

-- Increase the separation between the equipment and receiver.

-- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.

-- Consult the dealer or an experienced radio/TV technician for help.

This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions:(1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with minimum distance 20cm between the radiator & your body.