Security GSM Alarm System

USER MANUAL

System installation

- **Brief introduction of system**

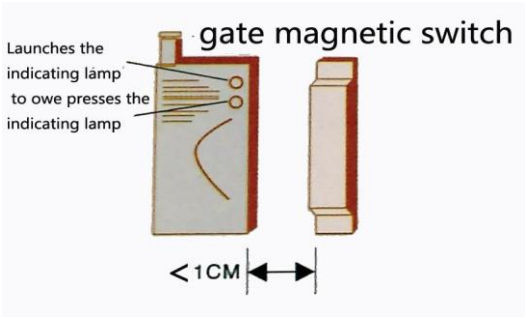
This alarm consists of main engine of alarm and various wireless-connected accessories. When people enter the defense region illegally, the main engine will give sound of sirens and call the hosts, so hosts can return home or inform neighboring relatives to cope with the instantly. Also, they can monitor the sound on the spot.

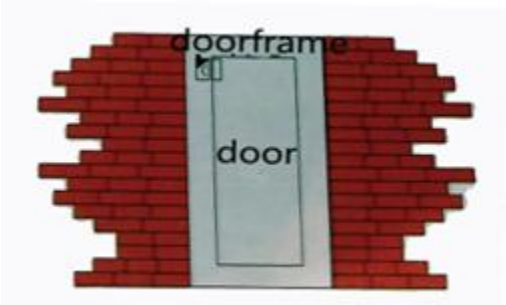
- **Alarm installation**

Insert the plug of telephone outside line into LINE2 of the main engine and connect LINE1 of the main engine with telephone using attached telephone wire of alarm. Then joint up the power source and warning signal; meanwhile the main engine will give a sound of “B” and light of the power source goes on, which means the main engine starts working.

- **Gate magnetism installation**

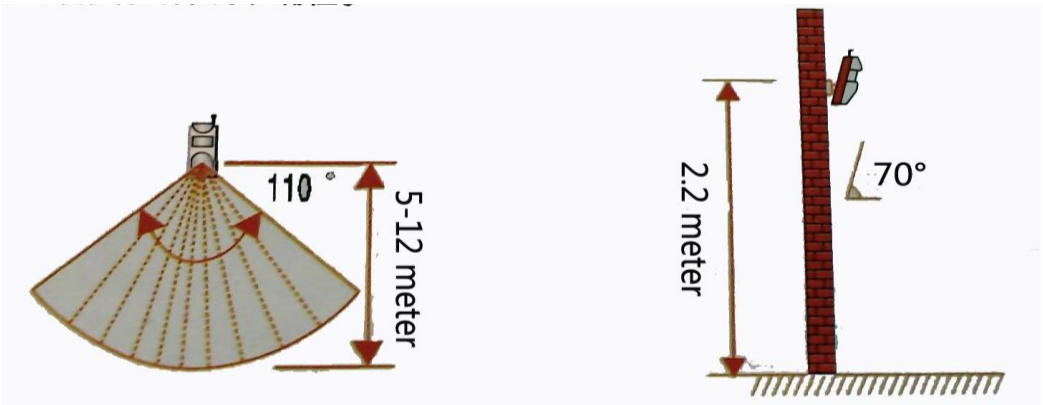
Use the random equipped double-side tape to stick a magnetic stripe on the door and affix the gate magnetic emission box on the doorframe. Pay attention to put the magnetic strip close to the side with indicator lights of the emission box during installation, assuring proper alignment and the smaller distance the better.





- **Infrared detector installation**

The principle of infrared detectors is to sense people's movement through sensing infrared signals generated by bodies and the detection range is usually 5-12 meters. Infrared sensor should be installed about 2.2 meters away from ground. Aim straight at the detection ranges. Moreover, the infrared detector can be only installed in the room, without facing the sunshine, windows and other places where temperature is easy to change, because the installed location may influence the detection range and accuracy.



- **GSM Card Installation**

Pull SIM card cover behind the host, press SIM card socket with your fingers and push backward, then open the cover of card socket, insert SIM card into the cover based on the notch, keep the notched corner of SIM card in direction of that on board, depress the cover and move forward to lock SIM card.

Function settings

All the settings can be carried out under the undefended situation with a long ring for all the proper operations while two short sounds for wrong settings.

Adjust the volume of alarm siren # 0 （0～99） # Adjust the volume when the alarm siren, Choose between 0 to 99, 0 is silent, 99 is the loudest.

Silent alarm # 0 0 # no alarm whistle for warning

Set up common alarm telephone numbers # (1～5) ?...? # set 1-5 groups telephone number, "1-5" is the ordinal of the telephone number; "?...?"stands for telephone numbers.

Set up emergency phone numbers # 6 ?...? # The same method as above, press alarm button of the main engine and the remote alarm button will call this group number.

Delete telephone numbers # (1～6) # Delete all the selected group telephone numbers.

Set up alarm delay # 7 ?? # set up delay warning time in the delay mode zone, in seconds. Here, "??" stands for the number

of seconds within the range between 0 to 99.

Alarm ringing time **# 9 ?? #** The alarm ringing time without human intervention after warning, Here, the range of "??" is between 0 and 30 minutes.

Inquiry alarm defense area **0～9** Directly press 0~9 to inquiry the 10 latest alarm events and display alarm defense area (0 means the latest one).

The state of setting up defense area **# 8 ? ? (0～9) #** Here,"??" stands for the serial number from 0 to 99. (0-9) designates the setting mode of selected defense area. **0=not use, 1=common defense area, 2=intelligent defense area, 3=emergency defense area, 4=multi-checked defense area, 5=delay-alarm defense area, 7=repeat triggered defense area, 8=Doorbell, 9=Pager.** For example, press # 8 2 2 # then you can set up defense area 2 as the intelligent area.

Note: When you input "99", it means all the wireless defense area will work according to this mode.

Emergency defense area: No matter under the defended or undefended situations, once triggered it will report to the police immediately, which is suitable for the gas reaction, smog reaction, safe, emergency accesses and other special occasions.

Intelligent defense area: After selecting an area as intelligent defense one, **the defense area is not effective (it is still effective under the normal defense area),** which is suitable

when hosts at home, because indoor infrared alarm function is canceled, while the gate magnetisms on the door and window are still in a state of monitoring.

Multi-checked defense area: Under the situation of defense or intelligent defense, if two or more detectors that set up multi-checked **are all triggered within 30 seconds**, the main engine will give an alarm. Therefore, based on this pattern, none of the infrared detectors will misinform the events.

Note: Set up two or more than two defense areas to be multi-checked and they should be set up respectively.

Delay alarm defense area: When the defense area is triggered and need alarm, the main engine can delay the alarm (the concrete delay time is determined by the "Setting up alarm delay"); moreover, the warning behavior can be canceled during delayed time.

Delete defense area: It means delete selected defense areas (only for wireless defense areas). **Note: when you input # 8 99 6 #, all of the wireless defense areas will be deleted.**

Repeat triggered defense areas: When the detector is triggered once, the system will not alarm immediately. Only when it is triggered again within 5-30 seconds after the first trigger, the system will alarm.

Doorbell: Either in the conditions of setting or cancelling fortification, the area is just used as the doorbell rather than alarming fortification area.

Pager: Either in the conditions of setting or cancelling fortification, the area is for pager use only rather than alarming fortification area.

The selection of common defense area and intelligent defense

area has no influence of choosing Mode 4, 5, 7, 8, 9 so you choose intelligent or common defense area, while selecting anyone of Mode 4, 5, 7, 8, 9, at the same time. However.

The zone is set to emergency mode to another mode if you want to set the zone to zone please do not use patterns, and then set the mode.

Input password * password * (The designing password is: 0000, which can be changed to another four numbers as the password)

Learning remote controller * 0 * The intelligent learning remote controller of main engine begin to count down 10 seconds When the remote or detector is triggered in 10 seconds, the main engine can distinguish automatically and give a long sound, presenting the location of remove memory, which means successful study**(All of the code learning method is the same).**

Learning detector * 0 1 * the intelligent learning remote controller of main engine. Learning method is same as above.

Designated serial learning detector * 8 ? ? * Connect learning detector to the designated defense area number and ?? is the defense number. For example, if you want to designate a detector to Defense Area 16, only input "* 8 16 *".

Delete all of the remote controllers * 0 2 * means delete all of the

remote controllers.

Note: when you input # 8 99 6 #, all of the wireless defense areas will be deleted.

Learn wireless keypad * 03 * learning methods and learning remote control, wireless keyboard, you can completely replace the panel keyboard.

Siren sound when using the remote control * 21 * on the remote control to turn on the siren sound.

Siren sound when using the remote control off * 20 * Use the remote control off the siren sound, enable buzzer sound.

Open crack-proof function * 3 1 * Open this function, then none of the wireless remote controllers can cancel defense (except for the cancel defense button of the main engine).

Close crack-proof function * 3 0 * Close this function, then remote controller of main engine can cancel defense normally.

Delayed time of setting up defense Inputting * 4 ?? * can start the delayed time of setting up defense, which means the formal defense will begin after ?? seconds when you press the button. Here, the range of "**??**" is between 0 and 99. Although it is in the state of delayed defense, it can enter defense situation immediately if you repress the defense button,

Open the alarm function when telephone lines disconnect * 5 1 *

When phone lines disconnect or failure, it will give alarm rings to inform.

Close the alarm function when telephone lines disconnect * 5 0 * means main engine will not detect telephone lines disconnection or fault.

Remote setup telephone ringing times * 6 ? * If the ring times calling local fixed-line telephone above the setting times, it will connect remote server automatically. Here, "?" is the setting ring times, **while "0" means no remote setup.**

Modify passwords * 7 new password (4 numbers) new password (4 numbers) * Use it when keyboard is locked and you forget password at the same time.

Recover factory settings * 8 password * The system will recover factory settings (Clear telephone numbers, vocal alarm, alarm sounds, cancel alarm, delayed setting defense, close the function of detecting disconnected telephone lines, alarm ring time last for 5 minutes). The instruction can not delete remote controller and defense area.

Set up alarm voice record * 0 password * It starts to record sounds at the place where 20 centimeters away from the main engine after correspond operations and the digital tube begin to countdown. It will quit automatically and the main engine gives a long sound which means the record is successful.

Play audio tape *** 9 *** Raise the fixed-line telephone connected with the main engine, and then you can listen to the recording contents. Press any button, it will quit the play.

Open wired defense area* 0 6 1 *

close wired defense area* 0 6 0 *

Set up wired defense area * 9 (101～102) (0～2) * 101-102 is the number for wired defense area, 0-2 means state (0=normally close, 1=normally open, 2=trigger when it is against normal) and 109 means all the wired defense areas are established based on this state.

Normally close: In the state of no trigger, the port is short connected with ground (negative) and brake is the trigger condition.

Normally open: In the state of no trigger, the port is disconnected with ground (negative) and short connection is the trigger condition.

Trigger when it is against normal: Under these special conditions, the connection status when the main engine turns from cancel defense into setting up defense is not triggered, while once the status is changed, it is the triggered situation.

set up the control of 12V power output # 8 0（0-9）# 0-9 stands for the control state of 12 power supply and selections as below:

0=not output 12V.

1=output 12V in the state of "CF", while close output under other states.

2=output 12V in the state of “SF”, while keeping outputting after alarm.

3=output 12V in the state of “SF”, while close output after alarm.

4=output 12V in the state of “bF”, while keeping outputting after alarm.

5= output 12V in the state of “bF”, while close output after alarm.

6=output 12V in the state of “SF” or “bF”, while keeping outputting after alarm.

7= output 12V in the state of “SF” or “bF”, while close output after alarm.

8=output 12V in the state of alarming.

9=keep outputting 12V.

Set the system time: * 07 (?? Hour) (?? Minute) * the hour and minute are both 2-digits. The hour is 24-hour clock. For example, if setting the time to be 9:18, enter *** 07 09 18 *.**

Set the fortification time in due time: # 07 (?? Hour) (?? Minute) (0-9) # ? ? are the hour and the minute. The time format is the same as setting the system time format. In 0~9, 0 means deleting all timing fortification settings. You can set 9 groups of timing fortification time, in which, the first five are long-term ones (periodic, i.e. executing every day). The sixth to ninth ones are one-off fortification settings. The system will delete this setting in due time. For example, setting fortification at 17:30 for the host every day and storing it in Group 2, the command is **# 0717302 #.** If needing to set one-off fortification at 12:00 temporarily, enter **# 0712007 #.** If removing all of the timing fortification settings, enter **# 0700000 # # 08**

Set the time of canceling fortification in due time: # 08 (?? Hour) (?? Minute) (0-9) # the detailed description for use is similar with the setting of timing fortification time.

Time broadcasting: # 09 (?? Hour) (?? Minute) (0-9) # the detailed description for use is similar with the setting of timing fortification time. The host will broadcast the time in due time, alerting for 30 seconds.

GSM part of the instruction

Station Indication of GSM part, "F4" means GSM is unavailable, "F5", turn on GSM, "F6", access the network. The indicator lamp flashes every 3 seconds in normal condition. If it can not access the network for a long time or shows F4, please turn off the power, check the machine and then turn on again. The following instructions are assumed that the password of host is 0000. If the password is changed, please replace 0000 with the new password.

Set 9 groups of self-editing short messages: format **"password + (1 - 9) + SMS content",** (1-9) is the group number. Group 9 is a message for emergency alert. For example, set Group 9 as "This is an alarm in emergent fortification area". You can edit "00009 This is an alarm in emergent fortification area" (no space) by a mobile phone and send it to the phone number of SIM card in the host.

Query the contents of self-editing short messages: format **"password + (1-9) +*",** (1-9) is the serial number of stored messages.

For example, if querying the content of Group 2, edit **"00002*"** by a mobile phone and send it to the phone number of SIM card in the host. Reply the message of Group 2 after success.

Set the types of alarm call # (1-6) (2-4) # (1-6) is the group number of telephone, and (2-4) is the type. 2 is to give a call only after alarming; 3 is to send the text message only after alarming, 4 is to send the message and give a call as well after alarming. For example, if setting Group 2 is to give a call and send the message as well, enter # 24 #.

Set the change notification of external power status * 05 (0 to 7) *

external power on and off notifications. In 0 ~ 7, 0 is to close the function; 1~6 is the group number of the telephone; 7 means all telephone are notified.

SMS direction after alarming in fortification area # 03 ?? (1-9) # ? ? refers to the area number; (1-9) is the serial number of message. One fortification area sends the text message of the specified series number after alarming. For example, set Alarm Area 12 to send the text message of Group 8 after alarming: **# 03128 #.**

Brightness Adjustment of Digital Display * 08 (0 ~ 7) * (0 ~ 7) is 8-level brightness adjustment, in which, 8 is the brightest.

Operating the host by SMS: use SMS to achieve set and unset functions , query, etc. The command of setting fortification is "SF", the command of cancelling fortification is "CF". Brainpower Fortification: " BF ". Querying status: "STATUS ". Programmable 12V power command of outputting and closing the output: "ON" and "OFF". Format “password + command”. For example, use SMS to control the cancelling of fortification: edit “0000 CF” to the phone number of SIM card in the host and reply the message after the success.

All the above host commands can be operated by editing text message with the format of “password + the content of command”. If it sets the first phone number of 87654321 by SMS, edit “0000 # 187654321 # ”and send it to the host.

Application of alarm system

1. Set up defenses

Press “🔒”button on remote controller or “Set up defenses” button on panel and the main engine will give a sound of “B”, then the main engine enter the defense situation or delayed defense state.

2. Cancel defenses

Press "🔓" button on remote controller or "Cancel defenses" button on panel and the main engine will give two sounds of "B", then the indicator lamp dies out, so the main engine is in a state of no defenses.

3. Emergency alarm

Press "🔔"button on remote controller or "Alarm" button on panel, main engine will enter the state of emergency alarm instantly, calling automatically and siren going off.

Press"🔔"button on remote controller once is silent alarm, while long press or two presses will open the siren.

4. Intelligent defenses

Press "⚡" button on remote controller or "Intelligent" button on panel, then main engine will enter the state of intelligent defense or delayed defense.

5. Status indication of main engine digital tube

Indicate "**SF**" for defense, "**CF**" for no defense, "**99**" for emergency alarm, "**bF**" for intelligent defense. "**F1**" for alarm when telephone lines disconnect, "**F3**" means there is no learning defense area, **1-98 means wireless defense area, L1-L2 means wired defense area.**

6. Operation methods of remote setup

You can use any telephone to dial the numbers of main engine and it will put on automatically after system detecting the ring times you have been setup. When you hear the beep, input passwords (two sounds when the password is wrong, while when the wrong time is above 3, the phone will hang up automatically) and if it is correct, you can have remote control of the system.，

Please press # after accomplish all operations, then you can implement other operations and hang up telephone.

Press “1” to monitor the scene

Press “2” to ring alarms

Press “3” to close arisen

Press “4” to set up defenses

Press “5” to cancel defenses

Press “6” to play records

Press “7” to output 12V electric power

Press “8” to close 12V output

Press “9” to Open propaganda

Press “0” to Close propaganda

Press “#” to affirm and hang up

If the password is wrong or no any operations within 20 seconds, it will

hang up automatically.

Press “1” button once you can listen for 20 seconds

7. Processing method after receiving alarm

In case of emergency, main machine will dial the setup telephone numbers automatically and give alarm rings based on settings. If the host’s phone is in use or not able to connect, the system will dial next alarm phone, until it is dialed and hosts confirm. It will play records after receiving alarm phone and **the operation methods are similar to remote setup.**

8.Hosts cover wiring diagram

SP + **SP-** connected loudspeaker speaker

Which SP-connect the power ground (**GND**)

Cable zone wiring: L1and L2 is the wired connection port zone, zone one of a wired line to a common ground, another wire signals the host access port (host port is not wired to provide power, but signal acquisition),

OUT is 12V programmable output drive current of 1A,

12V fixed output power, external electrical supply power.

Diagram is as follows: