Security GSM Alarm System

USER MANUAL

- 4 wired and 6 wireless defence zones;
- Can preset and store 6 voice phones and 3 message phones;
- Remote two-way intercom;
- Telephone (mobile phone) remote control programming;
- SMS remote control preset & arm/disarm the main panel;
- SMS alarm content can be changed;
- 10 groups of timely arm and disarm;
- 10 groups reply to timely control the home appliances open or close;
- Can connect wireless siren(Option)
- 10-second automatic message recording;
- Built-in intelligent English message;
- Alarm locking memory and information clear for easy checking;
- One-key-control function: Out Arm, Home Arm, Remote Arm;
- Wireless intelligent learning encoding and comply additional accessories;
- Arm, disarm, monitor and intercom by remote calling the alarm unit;
- Real-time, delay, 24 hours, bypass defense zones programming function;
- Built in NI-HI rechargeable battery is available to provide power supply nearly 5hours automatically after power

- AC and DC dual use are available for 24-hours-a-day normal guard;
- Main unit anti-tamper and low-voltage detecting function.

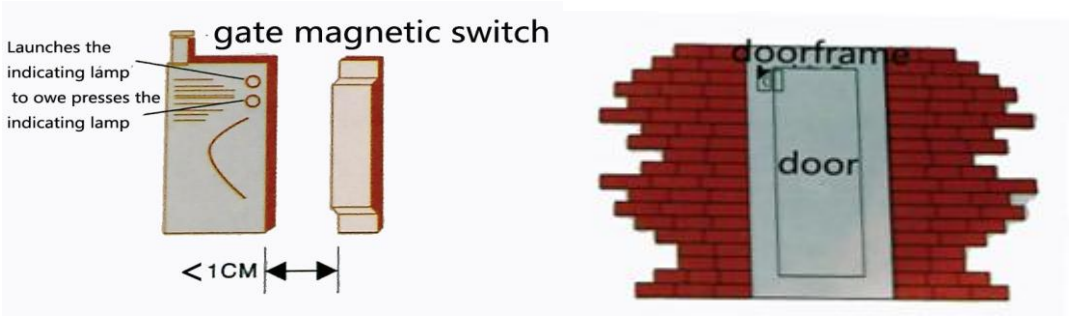
1 System Introduction

Wireless GSM intelligent anti-theft electronic alarm system is an innovative wireless mobile intelligent warner integrating GSM digital signal processing techniques and imported STC microprocessor, and a variety of technologies including digital voice announcer, English SMS, learning code, etc.

In addition, this alarm system is highly automatic, giving automatic voice or SMS alert in the event of emergency without intensive manual settings required. Features of stability, reliability, safety, and humanizing control enable it to be widely used for alert in shops, convenience stores, offices, villa as well as residential communities

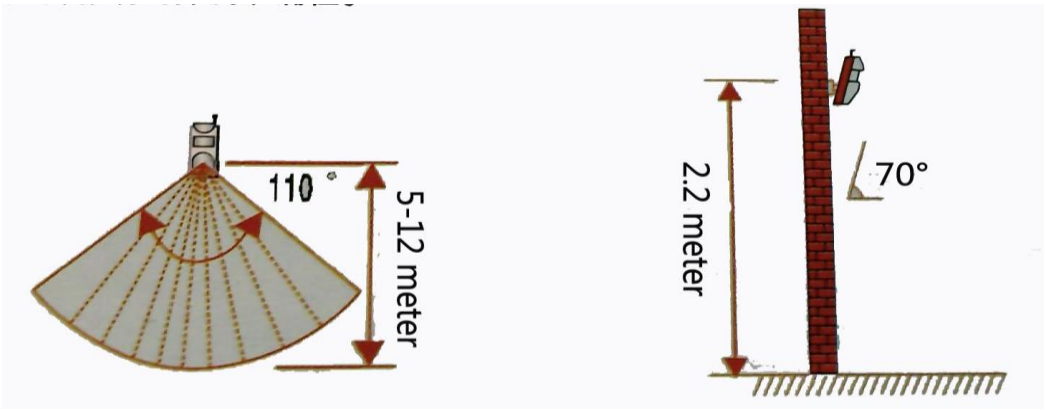
Gate magnetism installation

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.



2 Technical Parameter

Input Voltage:		DC9V~12V
Standby Current:		<55mA
Alarm Current:		<450mA
Wireless Frequency:		315/433.92MHz, 2262/4.7MΩ
GSM Frequency:		900/1800/1900MHz
Backup Battery:		NI-HI AAA*6 DC7.4V
Alarm Loudness:		110dB
Out		DC12V,1A

3 Factory default

Programming password:	8888	Remote Control:	Enabled
Operation Password:	0000	Ringing Times:	Once
Siren Duration:	300 seconds	Timing Setting:	Disable
Wired defence zone	Disable	Delay Setting	Disable
Power Output	Out	Zone model	real-time

4 Installation

■ Main Unit Installation

Be careful to keep it away from large metal objects or household appliances which may cause high frequency interference, as well as barriers such as reinforced concrete walls and fire doors.

Control Panel of Main Unit:

① Power hole
② Alarm output end
③ +12V power output
④OUT port
⑤Wired defence zone input
⑥Grounding wire,sp-
⑦Intercom speaker port
⑧SIM card slot
⑨ Backup power switch
⑩Setting button
A. defence zone indicator
B. [Arm] lindicator
C. [Power] indicator

■ SIM Card Installation

Step 1: Push out the SIM card socket as the open direction.
Step 2: Fit the GSM card into the card socket properly.
Step 3: Push the card socket as close direction until it is fit firmly.

5 Main Unit Settings

■ Prompt Message

Function	Operation Instructions	Notes
Beep	Short “beep”	Key-press prompt
	Long “beep”	Confirm prompt
	Four short “beep”	Error prompt
	“Beep” continue	SIM card is not fit or power on for the first time
Defence zone indicator	Always on	Alarm lock
	Flickering	Disarm status, this defence zone is triggered
Arm indicator	Fast flickering	Arm status
	Slow flickering	Settings status/At home status
	Always on	Alarming status

GSM indicator	Always on	GSM failure
	Flickering	Weak GSM signal or no signal
	Slow flickering	GSM normal

■ Power-on for the First Time

Following the method of installation, install the SIM card of main unit, make wired connection and fit the GSM antenna properly in order. Then plug the power adapter. At that time, all the indicators of 6 defence zones and 2 function indicators on the main unit flicker once and the buzzer emits a long “beep”; then the main unit starts to search the GSM network with “beep” continuing(The time to search network is about 8 seconds to 55 seconds). Until the network is normal, “beep” stops, the power indicator is always on and the main unit is in the status of disarm.

At last, slide the switch of backup battery to [ON] with nippers or a small screwdriver.

■ Factory Reset

First switch off the backup battery and cut off the power supply, press and hold the button [Set] on the top of unit,then turn on the power adapter; 3 seconds later, the buzzer emits a long “beep” and all the LED indicators go on but go off instantly; at last you can release the button. That's mean all its settings cleared and return to its factory settings successfully.

■ Voice Record

In the status of disarm, press [Set] for 3 times, the main unit emits a long “beep”, and [Arm] indicator flickers (once a second), then recording starts: recording at 30cm away from the main unit, with standard of moderate voice; 10 seconds later, recording stops automatically and [Arm] indicator goes out.

■ Enter Setting

In the status of disarm, press and hold [Set]; 3 seconds later, the main unit emits a long “beep”, [Arm] indicator flickers and the main unit enters the setting status.

In the status of settings, as long as keeping the status of setting ([Arm] indicator flickers), you can program different settings repeatedly. During setting, however, if you stop setting operation for over 30 seconds, the main unit will exit from setting mode automatically and return to the status of disarm.

■ Exit Setting

After setting is finished, all the indicators of the defence zones is off but only [Arm] indicator flickers; press [Set] for 3 seconds,the main unit exits from setting. [Arm] indicator goes off, the main unit returns to the status of disarm.

■ Code Pairing by Remote Control

Code Pairing of Remote Control

In the status of disarm, enter settings and press [Set] once again, the main unit emits a short “beep” and all the indicators of the defence zone are always on, which indicate that the unit enters remote control code pairing status; take a remote control required for code pairing and press any key on it to emit a wireless signal to main unit; after the main unit receive the signal, it emit a beep and all the indicators of defence zone go out, which indicate the remote control succeeds in code pairing.

Cautions: the main unit can provide code pairing for at most 8 remote controls. Code pairing for all remote controls is the same.

Delete Remote Control

In the status of disarm, enter settings and press [Set] once again, the main unit emits a long “beep” and all the indicators of the defence zone are always on, and then it enters remote control code pairing status; press and hold [Set] for 3 seconds, the main unit emits a long “beep” and all the indicators of the defence zone go out. Remote control paired successfully.

Cautions: when deleting remote control, all the remote controls would be deleted.

■ Code Pairing of defence zone

Code Pairing of defence zone

In the status of disarm, enter settings, press [Set] once again to enter the remote control code pairing status; press [Set] once again and the indicator of defence zone 1 goes on; then, take a sensor required for code pairing and trigger an alarm to emit a wireless signal to the main unit; after the main unit receives this signal, it emits a long “beep” and the indicator of defence zone 1 goes out, which indicate code pairing in defence zone 1 is paired successfully.

Cautions: in the status of disarm, enter settings, skip code pairing of remote control and continue to press [Set], and then the indicators of the defence zone go on one by one; select a defence zone to perform code pairing and the indicator of this defence zone goes on. Repeat the code pairing operation in the paragraph above for all other defence zone.

Code pairing for the defence zone on main unit can be overwrote automatically, which means only the last code pairing is valid. Therefore, code pairing can only be performed for one sensor in a defence zone; in case the number of sensors required is more than that of the defence zone, you can edit the address code and digital code of the sensors of same type to be the same exactly. By doing so, you just need to perform code pairing for one sensor, and then other sensors with the same codes can work normally. In alarm, it will indicate the same defence zone.

Delete Code Pairing

In the status of disarm, enter settings and skip code pairing of the remote control; press [Set] once again, then the indicator for defence zone 1 goes on; then, long press [Set], three seconds later the main unit emits a long “beep”, and the indicator of defence zone 1 goes out. Code pairing for defence zone 1 is deleted successfully.

Wireless keyboard

Into the set, jump to zone 6 yards again click on the [set], all the zone lights, began to learn the wireless keyboard, remote control with learning to learn.

6 Remote Control Programming

All the programming of the main unit are completed by key operations on a phone or send SMS commands, which shall dial GSM card number of main unit first.

In the status of disarm, after GSM network is checked to be normal, dial the SIM card number by mobile phone (or fixed phone), the main unit will answer automatically and give a voice prompt “Please enter the password”; then you can enter the correct programming password (factory default: 8888); after that, the main unit emits a long “beep”, and the [Arm] indicator flickers, indicating that the main unit enters remote control programming.

■ Function Instructions

Function	Operation Instructions	Notes
Enter Programming	Enter [password]	Long “beep”
Exit Settings	Hang up directly	Short “Beep”
Change Password	[*]+1+ [New operating Password] +[New Programming Password] +[*]	Factory default: 0000 Factory default: 8888
Set Phone	**# + (1~6) +**phone numbe **+ #**	1-6 group voice calls
Message Receiving Phone Number	**# + (7-9) +**phone numbe **+ #**	SMS phone
Delete Phone Number	**# +(1~9)+#**	
Siren set	**# +0+A+B+C+ #**	
Setting time	***+2+AABB+***	“AA”Hour, “BB”Minute
Timer Arming	***+3+AABB+C+***	“C”:0,Disable
Timer disarm	***+4+AABB+C+***	“C”:1-9, Enabled
Timer switch	***+5+AABB+C+1/0+***	
Delay Setting	***+6+A+B+C***	
Wired zones set	***+7+ABCD(1/0)+***	
defence zone Programming	***+8+A+B+C+***	
Alarm message	***+9+A+(0-9)+***	
Output Settings	***+0+(0-9)+1/0+***	

■ SMS Instructions

Function	Operation Instructions	Notes
Custom SMS	[Programming password] +[1-9] + [content of the message]	
Function settings	[Programming password] +[Instruction]	
Arming	[Programming password] +[“SF”]	For example：8888SF
Disarm	[Programming password] +[“CF”]	
Intelligent defenses	[Programming password] +[“BF”]	
Check status	[Programming password] +[“STATUS”]	**8888STATUS**
Open the output	[Programming password] +[“ON”]	
Close Output	[Programming password] +[“OFF”]	
SMS query	[Programming password] +[1-9]	
Query time	[Programming password] +[“TIME”]	

By phone or wireless keyboard or SMS, enter the following command operation alarm system

■ Change Password

*	1	× × × ×	× × × ×	*

Illustration: “X” indicates the new password; for example, change the factory default (0000) of operating password into the new password: 1234. change the factory default (8888) of programming password into the new password: 8765.
Input：*112348765*
SMS Command: 8888*112348765*
Cautions: the operation password and the programming password can not be set to the same number.

■ Phone Setting

Voice Call

When it is set to alert through voice call, the main unit can send warning voice message to 6 phone numbers, (for example: defence zone 5, balcony alarm, this is……) . Telephone number 1-6.

Message Receiving Phone Number

When it is set to alert through message, the main unit will send alarm SMS to three phone

numbers, (for example: defence zone 5, balcony alarm). Telephone number 7-9.

Phone Number Settings:

1 ××...××

2 ××...××

…

8 ××...××

9 ××...××

Delete Phone Number:

1

2

…

9

Illustration: “X” indicates the set voice alarm-receiving phone number; set 0755-12345678 to be the second voice call number.
Input：#2075512345678#
SMS Command: 8888#2075512345678#
Illustration: “X” indicates the set message-receiving phone number; set 13812345678 to be the first message-receiving phone number.
Input：#713812345678#
SMS Command: 8888#713812345678#
Delete the third group of voice call number.
Input：#3#
SMS Command: 888853#

■ defence zone Programming

* 8 A B C *

Notes: “A” indicates the number of defence zone; “B” indicates the type of defence zone; “C” indicates if the siren sounds.
A: Number of defence zone: [1~6] corresponds to defence zone 1 to defence zone 6 respectively. [7~0](0 as 10)Correspond to the cable zone L1-L4.
B: Type of defence zone: [0] Delete zone, [1] real-time, [2] Intelligent defense area,[3] Emergency zone [4] multi-checked defense area, [5] delay-alarm defense area,[6] repeat triggered defense area 【7】Doorbell 【8】Regional Call

C: Type of siren: [0] sound-off, [1] sound-on
Illustration: set the defence zone 1 to Emergency zone ， alarm sound.
Input：*8131*
SMS Command: 8888*8131*

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.

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.

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.

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

■ Operating Siren

0 A B C

Notes: **“A”** indicates if the siren emits a prompt when enabling and disarm by remote control: [0] sound on, [1] sound-off.
“B” Alarm ringing time, "B" host after the alarm sounded the alarm time,Value between 0-9 minutes,0 indicates that the host is not ringing.
“C "alarm sound in the size of, Value between 0-9, 0 is not ring the alarm, 1-9 that sound an alarm.
Illustration: Alarm will sound when the remote control, Siren sound five minutes off, Siren sound level 9
Input：#0159#
SMS Command: 8888#0159#

■ Power Output Set

*	0	A	B	*

Notes: **"A"** 0-9 stands for the control state of 12V power supply and selections as below:
0=not output 12V.1=output 12V in the state of Disarm, while close output under other states.
2 or 3=output 12V in the state of Arming,
4 or 5=output 12V in the state of "Intelligent defenses",
6 or 7= output 12V in the state of Arming or "Intelligent defenses",
8=output 12V in the state of alarming.
9=keep outputting 12V.
B" Alarm ringing time, "B" host after the alarm sounded the alarm time,Value between 0-9 minutes,0 indicates that the host is not ringing.

■ Clock Setting

*	2	AA	BB	*

"AA" indicates: the 2 digits of the present hour.
"BB"indicates: the 2 digits of the present minute.
For example: set the time as 19:18
Operating method: *21918*
SMS Command: 8888*21918*

■ Timing Setting

1. Timely Arm

*	3	AA	BB	C	*

"AA"indicates: the hour of the setting time
"BB"indicates: the minute of the setting time
"C" indicates: Storage location and unset，1-5 group is periodically set，6-9 group is a temporary set，0 is cancel all settings
For example: Auto arm every day 17:40，Stored in the Group 1
Operating method:*317401*
SMS Command: 8888*317401

2. Timely Disarm

*	4	AA	BB	C	*

"AA"indicates: the hour of the setting time
"BB" indicates: the minute of the setting time
"C" indicates: Storage location and unset，1-5 group is periodically set，6-9 group is a temporary set，0 is cancel all settings
For example: 8:00 auto disarm, disarm canceled after this setting，Stored in the Group 9
Operating method:*408009*
SMS Command: 8888*408009*

3. Timing switch power supply

＊ 5 AA BB C D ＊

“AA” indicates: the hour of the setting time
“BB” indicates: the minute of the setting time
“C” indicates: Storage location and unset，1-5 group is periodically set，6-9 group is a temporary set，0 is cancel all settings
“D” indicates: Power output or close output，1= Power output，0=Close output
For example: Power output every day 12:30，Stored in the Group 5
Operating method:*5123051*
SMS Command: 8888*5123051*
For example: 13:00 Close output, turn off the output to cancel the setting after，Stored in the Group 9
Operating method:*5130050*
SMS Command: 8888*5130050*

■ Telephone set rings, fortified delay and alarm delay setting

＊ 6 A B C ＊

"A" call to set the host, the host receive ring many times, value 0-9,0 not answer the phone. “0” means no remote setup.
"B" Arming delay, Values between 0-9,0 to cancel the delay. Each value is equal to 10 seconds
"C" alarm delay, Values between 0-9,0 to cancel the delay. Each value is equal to 10 seconds
For example: Ring nine times to answer, arming delay 50 seconds, Delay zone alarm delay time of 10 seconds
Operating method:*6951*
SMS Command: 8888*6951*

■ Set up wired defense area

＊ 7 L1 L2 L3 L4 ＊

ABCD sequence corresponding to the cable zone L1, L2, L3, L4, the value is "1" or "0", "1" refers to the default wired normally open zone, "0" refers to the default zone wired normally closed.
For example ： L2 is the default setting normally closed, normally open other wired zones

Command：＊ 7 1 0 1 1 ＊

Close wired zones＊ 7 ＊

■ SMS related operations

Zone Alarm after the message selection

*	9	A	B	*

Notes: A: Number of defence zone: [1~6] corresponds to defence zone 1 to defence zone 6 respectively. [7~0](0 as 10)Correspond to the cable zone L1-L4.
B: SMS number, value 1-9

Set 9 groups of self-editing short messages

Programming Password	+	A	+	SMS content

Notes: A: SMS number, value 1-9
(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:

Programming Password	+	A

“A”(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.

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.

7 Operation Instruction

1. Set up defenses

It means to guard all around your house while all are out; all the sensors of alerters are always working; when the sensor is triggered by door, fire, gas leak, etc., the alarm system will

sound the alarm. After you have done these operations, the indicator of [Arm] on the main unit is always on.

Remote Control Operations: press [🔒] on the remote control.

2. Cancel defenses

It means to stop the alarm when the main unit sounds the alarm or make the alarm system in the status of non-warning. After disarm the guard, even if you trigger the sensor, the main unit would not sound alarm (excluding 24-hour defence zone and emergency button on the remote control) and the [Arm] indicator goes out.
Remote control operations: press [🔓] on the remote control.

3. Emergency alarm

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

Wireless Keyboard Instructions

Code Pairing of Remote Control(*0*) ， Code Pairing of defence zone（*8？*）,Set up defenses (* 1 *), Intelligent defenses (* 2 *), Cancel defenses (* 3 *), Emergency alarm (* 4 *), open the siren (* 5 *), off siren (* 6 *), the output OUT (* 7 *), close the oUT (* 8 *), the output oUT time 500ms (* 9 *)

Restore the factory (* 80000 *), delete all zones (* 8996 *), remove the remote control (* 02 *);

5. 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

6. 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.

Hosts cover wiring diagram

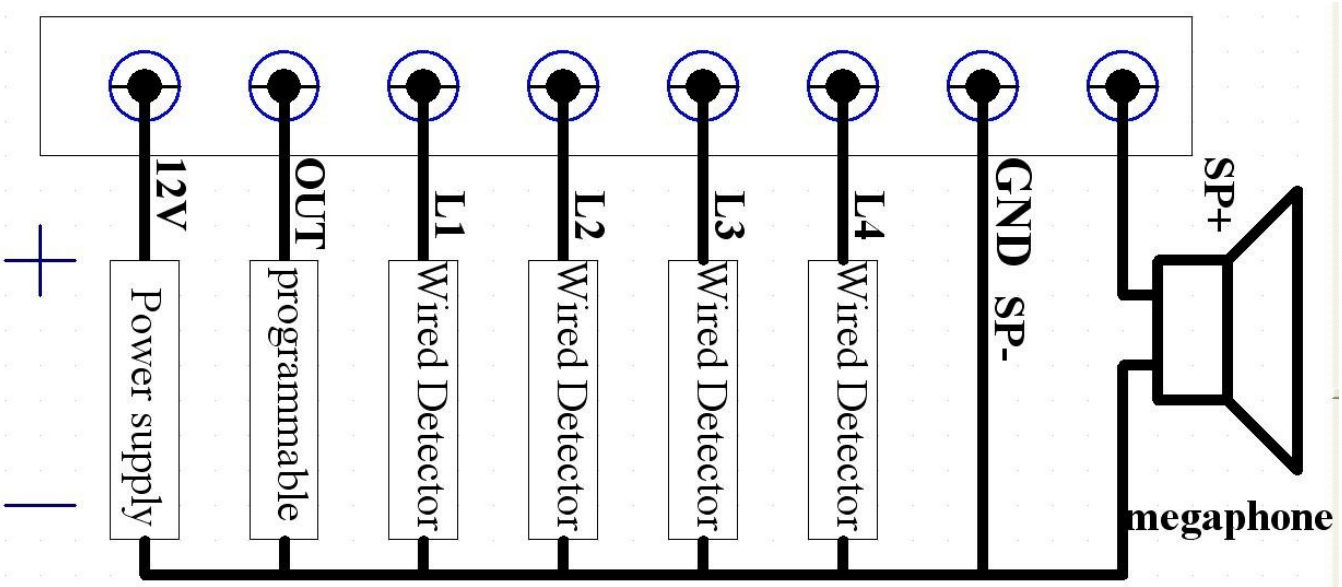
SP + SP- connected loudspeaker speaker

Which SP-connect the power ground (GND)

Cable zone wiring: L1and L4 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.


12V
OUT
L1
L2
L3
L4
GND
SP-
SP+
Power supply
programmable
Wired Detector
Wired Detector
Wired Detector
Wired Detector
megaphone