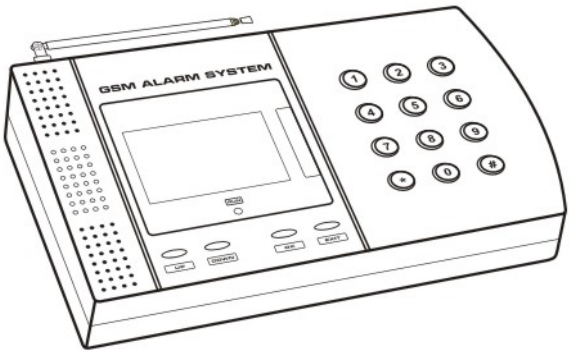

CE

GSM ALARM SYSTEM «

Thank you

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 is widely used in security field. With SMS data transmission and voice platform of GSM network, it really realizes wireless alarm control and remote managements and solves the limitation of wired data transmission in telephone and wired 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. "People is center, technology is first" is our company's action rule. Customer Satisfaction is our consistent pursuit. Perfect system, excellent services, sincere attitudes will bring you a new enjoyment.

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I. Safety Directions

Safe Startup

Do not use the system when using GSM equipment is prohibited or might bring disturbance or danger.

Interference

All wireless equipment might interfere network signals of host and influence its performance.

Avoid Use at Gas Station

Do not use the system at a gas station. Power off Host it near fuels or chemicals.

Power it off near Blasting Places

Please follow relevant restrictive regulations. Avoid using the device in blasting places.

Reasonable Use

Please install the product at suitable places as described in the product documentation. Avoid signal screening by covering the mainframe.

Use Qualified Maintenance Service

Maintenance can be carried out only by qualified maintainer.

Waterproofness

The product is not waterproof. Please install it at dry places and keep it dry.

II. Instruction

The GSM Alarm System is a new security protection solution special for home, house and office and other applications. It based on Wireless GSM Communication network, intergrated LCD Menu display and Computer technology and voice communication. When any sensor activated, it will Call&Send SMS to owners telephone immediately.

The GSM Alarm System equips with LCD and entire operation Menus Displayed, all operations and settings are visual and intuitive! Also, the user can set it by PC through USB cables.

2.1 Functions & Features of the GSM Alarm System

1. GSM Frequency: Dual-Band (900/1800MHz), Quad-Band is optional (850/900/1800/1900Mhz) ;
2. Can armed, Bypass armed or disarmed by SMS or remote control or mainframe keyboard;
3. Automaticed send SMS Alert and dial to the pre-set cellphone when any sensor activated;
4. Equips with 4 Wired Zones, NC/NO, and Zone Name is editable;
5. Equips with 8 Wireless Zones, Normal/Bypass mode and Zone Name is editable, 3 24-Hour zones for Panic button, smoke and gas leakage sensor;
6. Supports 10 alarm telephones and 20 Alarm Records for owner review;
7. Supports 6 timing points, 4 pre-set timing points for customer choice;
8. Supports armed delay to give enough time to you go out the home, the delay time is editable by user;
9. Equips with 1 relay output, it like a switch, use for driving DVR, light, gate or other electric appliances once the system activated. It can be disable and enable by user;
10. The Keypad can use as a dialer, the functions like the Cellphone;
11. The external power failure&recovery alert function is optional;
12. Supports wiretap through external mirophone to special user for high-sensitivity listen by RJ11 connector is available;

13. Supports internal Speaker to special user for two-way voice communication by RJ11 connector;
14. It is Compatible with PT2262/2264 wireless IC, EV1527 is optional;
15. Standby internal rechargeable battery which can last 10 hours;
16. Based on the GSM communication network and Operation Menu Display technology, apply to wide range situations;

2.2 Standard Package list of the GSM Alarm System

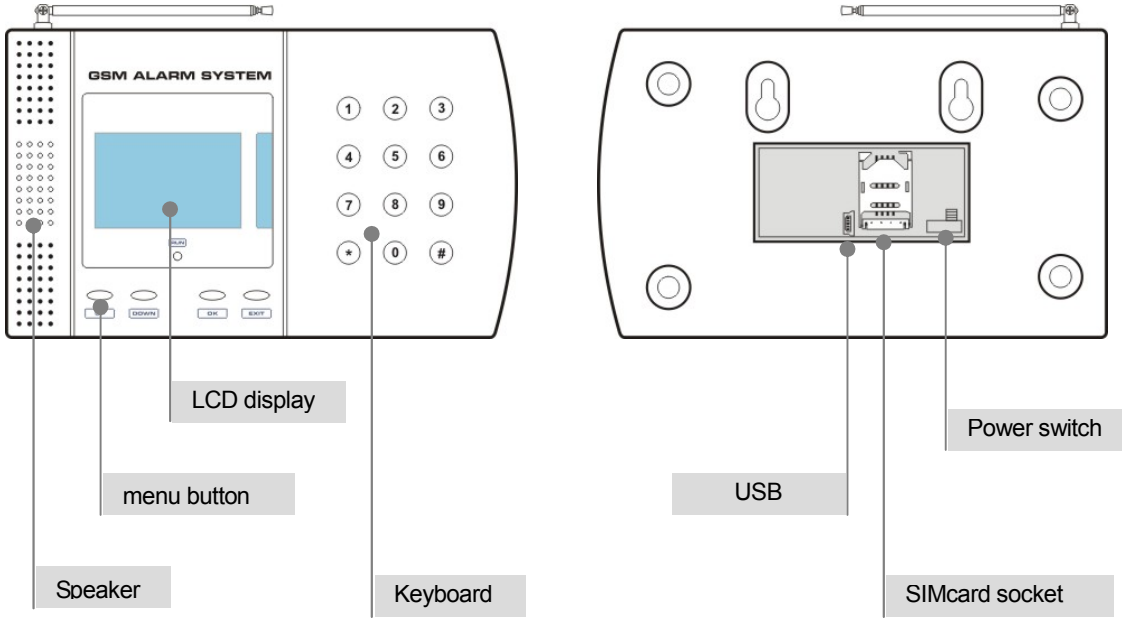
Mainframe X1 Remote contol X2 Wireless PIR Motion Sensor X1 Wireless Door magnetic Sensor X1
Wired Siren X1 AC/DC Adaptor X1 PC Programmer Tool CD X1 User Manual X1

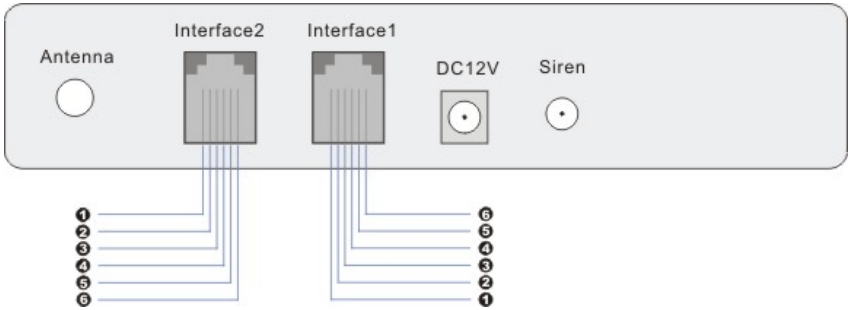
2.3 Specifications of Mainframe of the GSM Alarm System

- ☑ Rated Voltage: 12VDC 1.5A
- ☑ Working temperature: -10℃～+60℃
- ☑ Storage temperature: -20℃～+60℃
- ☑ Relative humidity: 10-90%, No condensation
- ☑ Work frequency: GSM900,1800Mhz or 850/900/1800/1900MHz
- ☑ Communication protocol: GSM PHASE 2/2+ (include data service)
- ☑ Wireless sensor receiving frequency: 433+/-0.5MHz
- ☑ Wired Zones: 4
- ☑ Wireless Zones: 8
- ☑ 24-Hour Wireless Zones: 3(Special for Panic Button, Smoke and Gas Sensor)
- ☑ Related Voltage of the Relay: 5V
- ☑ Effective distance of wireless transmission: 100 m (Open area)
- ☑ Battery: Built-in lithium-ion battery: 800mAh 3.7V
- ☑ Standby time Approx. 10hours (depending on the network condition)
- ☑ Net Weight: 1.60Kg

III. The host Installation

3.1 Alarm Host's section figure





Interface1 (RJ11 connector,Telephone cable or CAT5 cable)	
PIN1	Microphone positive electrode
PIN2	Microphone negative electrode
PIN3	Output relay positive electrode (Relate voltage:3A/250VAC)
PIN4	
PIN5	Output relay negative electrode (Relate voltage:3A/250VAC)
PIN6	

Tips:
The Microphone is the same as computer microphone, you can use the computer microphone to it;

Interface2 (RJ11 connector,Telephone cable or CAT5 cable)	
PIN1	GND
PIN2	GND
PIN3	Wired sensor input 3
PIN4	Wired sensor input 2
PIN5	Wired sensor input 1
PIN6	Wired sensor input 0

Tips:
Wired sensor input can connect Temperature sensor, Water leakage sensor, etc.

3.2 Insert a valid SIM into the alarm host

Before installing the host, remove the SIM slot cover with screwdriver and insert SIM card.

3.3 Run

Make sure that the power supply is connected correctly, and turn on the host power switch. The alarm host will search the GSM network automatically within 25 seconds after it is started. Then the LCD display turns on and shows the status of arm, disarm, GSM signal etc.

IV. Setup steps

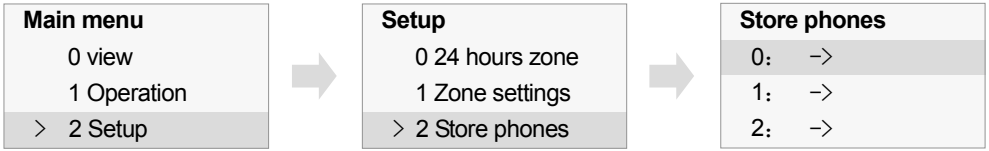
4.1 Quick Guide

1 Login system

Press “OK” button, input password, The initial password is 000000 (must be numbers).

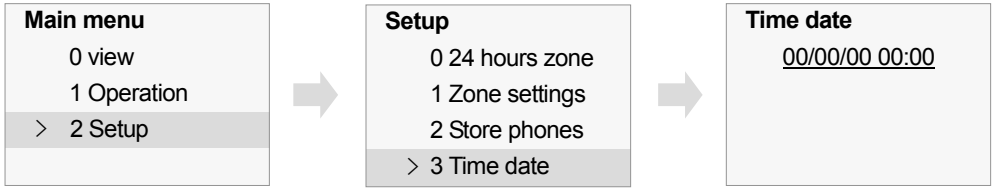
2 Set the mobile phone number

After enter Main menu, please select ”Setup”, and select “Store phones” , press”OK” to add phones by keyboard, while delete phones, you can press “UP” button to delete phone numbers. You can add 10 mobile phone numbers.



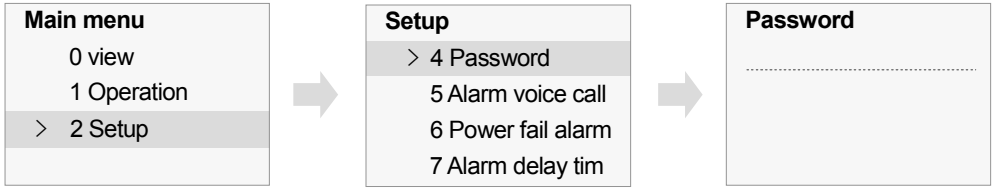
3 Set time date of the alarm host

please enter ”Setup” menu, and select “Time date” ,press “OK” to set time by keyboard



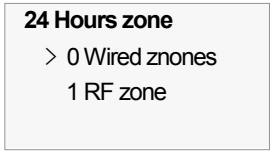
4 Change login password

please enter ”Setup” menu, and select “Password” ,press “OK” to set password by keyboard



4.2 Advance Setup

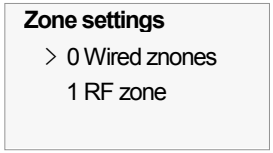
4.2.1 Set 24 Hours Zone



please enter ”Setup” menu, and select “24 hours zone”, Set the selected wired or RF zones as 24 hoursZone or not

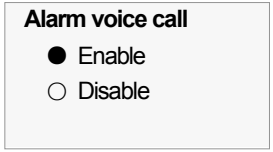
4.2.2 Zone settings

please enter ”Setup” menu, and select “zone settings”, Set the selected wired or RF zones Bypass armed or enable, enable means it can be armed.



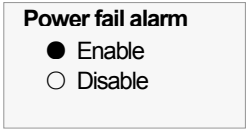
4.2.3 Alarm voice call

please enter”Setup” menu, and select “Alarm voice call”, press”OK” to set host dial to the pre-set mobile phone when alarm or not.



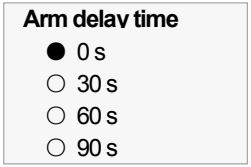
4.2.4 Power fail alarm

please enter”Setup” menu, and select “Power fail alarm”, press”OK” to set external AC power failure and recoverd need the host send SMS to alarm or not.



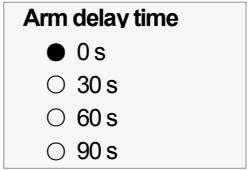
4.2.5 Alarm delay time

please enter ”Setup” menu, and select “Alarm delay time”, press "OK" to set Alarm delay time, in the time host will not send SMS when alarm, In this way, you have a enough time to set in disarm mode when you enter the monitor area.



4.2.6 Arm delay time

please enter ”Setup” menu, and select “Arm delay time”, press "OK" to set Arm delay time, in the time host will not send SMS when alarm, In this way, you have a enough time to set in arm mode when you leave the monitor area.



4.2.7 Wired in types

Wired in types

00: -> No. type
01: -> No. type
02: -> No. type
03: -> No. type

please enter ”Setup” menu, and select “Wired in types”, press "OK” to set the 4 wired sensor NO. or NC

4.2.8 Timer mode

Timer mode

● Mode1
○ Mode2
○ Mode3
○ Mode4

please enter ”Setup” menu, and select “Timer mode”, press "OK” to set the 4 Timer mode of auto-arm/ disarm.

Mode1: 9: 00 to arm —— 17: 30 to disarm
Mode2: 9: 00 to arm —— 12: 00 to disarm
13: 30 to arm —— 17: 30 to disarm
Mode2: 9: 00 to arm —— 12: 00 to disarm
13: 30 to arm —— 17: 30 to disarm
22: 30 siren alarm enable
6:30 siren alarm disable
Mode4: 18: 30 to arm ——7: 40 to disarm

4.2.9 Restore factory

please enter ”Setup” menu, and select “Restore factory”, press "OK” to Reset the host

4.2.10 Erase RF sensor

please enter ”Setup” menu, and select “Erase RF sensor”, press "OK” to remove all of wireless sensors

4.2.11 RF decoder

please enter ”Setup” menu, and select “RF decoder”, press "OK” to select EV1527 or PT2262/64, default is PT2262, the host support two kinds of wireless sensor that base on EV1527 or PT2262/64 wirless IC. But only one of types can be active at a time.

RF decoder

● EV1527
○ PT2262/64

4.2.12 GSM band setup

GSM badn setup

● Default
○ GSM_850M

If your host support GSM 4 band, and it is used in 850M or 1900M GSM network, please select “ GSM 850M ”

V. View status of Host

5.1 View status of Wired inputs

Wired inputs
Wired in0 –> Normal
Wired in1 –> Normal
Wired in2 –> Normal
Wired in3 –> Normal

please enter ”View” menu, and select “Wired inputs”, press "OK” to view the wired inputs triggered or not

5.2 View the alarm records

Alarm records
–> Alarm record 0
Alarm record 1
Alarm record 2
Alarm record 3

please enter ” View” menu, and select “Alarm record”, press "OK” to view the lastest 20 alarm records

5.3 View the alarm records

please enter ” View” menu, and select “GSM status”, press "OK” to view the gsm signal, more than 17 is good, less than is poor, and you can view the IMEI code of gsm module.

5.4 View Timers

Wired inputs
Wired in0 –> Normal
Wired in1 –> Normal
Wired in2 –> Normal
Wired in3 –> Normal

please enter ” View” menu, and select “Timers”, press "OK” to view the timers you have set

5.5 View Wired in sms

Wired in sms
–> Wired in sms 0
Wired in sms 1
Wired in sms 2
Wired in sms 3

please enter ” View” menu, and select “Wired in sms”, press "OK” to view the sms alert contents of the wired zones that you have set.

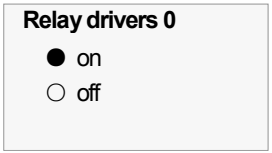
5.6 View RF zone sms

RF zone sms
–> RF zone in sms 00
RF zone in sms 00
RF zone in sms 00
RF zone in sms 00

please enter ” View” menu, and select “RF zone sms”, press "OK” to view the sms alert contents of the RF zones that you have set.

VI. Operations of the host

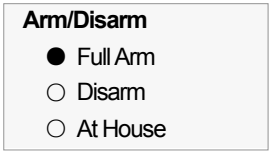
6.1 Control Output



please enter ” Operation” menu, and select “Relay drivers”, press "OK” to control output on or off

6.2 Arm/Disarm

please enter ” Operation” menu, and select “Arm / Disarm”, press "OK” to make the host in full arm or disarm or at house(bypass armed) mode.

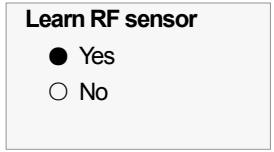


6.3 Sound alarm

please enter ” Operation” menu, and select “Sound alarm”, press "OK” to set the siren enable or disable

6.4 Learn RF sensor

please enter ” Operation” menu, and select “Learn RF sensor”, press "OK” to start, after select ”yes” ,you can trigger a wireless sensor , then you will hear “di,di” sound for learn successflly

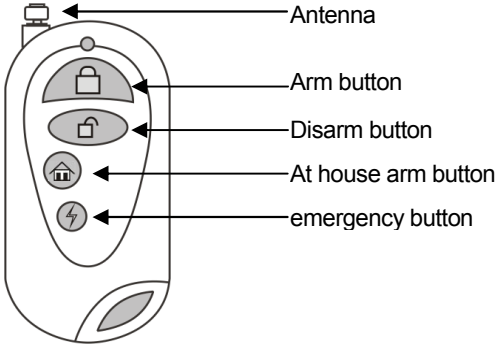


6.5 Call and Hang up call

please enter ” Operation” menu, and select “Call”, press "OK” and keyed in phone numbers and press “ok” to dial, if you need to hang up the call , you can enter ” Operation” menu, and select “Hang up call”

VII. Operations of remote controller

Remote controller is an accessory of the host, It can remote control host to arm/disarm, sound alarm enable/disable and it provide emergency button for urgent status.



7.1 Arm

Press "🔒" on remote controller, the host will make "di" sound, the LCD display is twinkling. the host enters into arm mode and the "🔒" is on.

7.2 Disarm

Press "🔓" on remote controller, the host will make "di～,di,di,di" sound, the LCD display is twinkling. the host enters into disarm mode and the "🔓" is on.

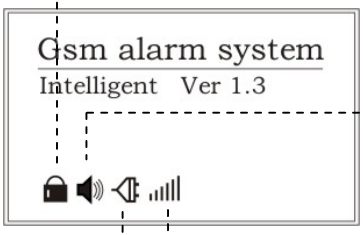
7.3 Sound alarm enable/disable

Press "🏠" on remote controller, the host will make "di" sound, the LCD display is twinkling and the " 🏠" is on, host is in at house mode. and the siren alarm is enabled and " 🔊 "is on, next press "🏠" button agina, the host will make "di～,di,di,di" sound, the LCD display is twinkling and the " 🔇 "is on, the siren alarm is diabled

7.4 Emergency alarm

When an emergency alarm occurs, press " ✈ " and the host will enter into emergency alarm status , immediately , the siren will alarm for 90 seconds to inform the neighbors. And automatically send SMS of "Emergency alarm" to the preset alarm phone numbers.

VIII. LCD ICON discription



	Host is in arm mode
	Host is in diarm mode
	Host is in at house arm mode

	The siren alarm is enabled
	The siren alarm is diabled

	GSM signal
	Learn RF sensor

	Power supply by external AC power
	Power supply by internal battery

IX. Quick operation command by keyboard

Operations	Keyboard Command
Arm	11#
Disarm	00#
At house	12#
Siren enable	31#
Siren disable	30#
Emergency alarm	999#

X. SMS Operation command

Operations	Command
Arm	BF
Disarm	CF
Query system status	dayrp
Set ten mobile phone numbers for host	CS<n><phone numbers> (n=0~9)
	Example: Set 1388888888 as the first mobile phone number for host Send sms: CS01388888888
Query all phone numbers	CS?
Delete phone numbers	CS<n> (n=0~9)
	Example: Delete CS9 mobile phone number

	Send sms: CS9
Change password	PW<old password>, <new password>
	Example: The initial password is 000000, if you want to set 123456 as the new password, Send SMS: PW000000,123456
Set disarm delay time	indly< time（second）>
	Example: set disarm delay time is 20 Send SMS: indly20
Set arm delay time	outdly< time（second）>
Set 4 Wired Zones alarm sms	S<n><message>　　(n=00~03)
	Example: Set ‘”temperature alarm” as the alarm sms of wired input 0 Send sms: S00temperature alarm
Set 4 Wired Zones recover sms（input type must be “LEVEL”）	S<n><message>　　(n=04~07)
	Example: Set ‘”temperature recover” as the recover sms of wired input 0 Send sms: S04temperature alarm
Set emergency alarm sms	S08< message >
Change 11 Wireless Zones alarm sms	S<n><message>　　(n=09~20)
	Example: Set “door sensor alarm” as the alarm sms of Wireless Zones 1 Send sms: S09 door sensor alarm
Output close	IOOH0
Output open	IOOL0

XI. Encode the wireless detectors and Remote controller

Wireless address code of product (A0 to A7)
Note: You can see the code (A0-A7) from PCB in the products.

Name	Zones		At house arm	D0 (13)	D1 (12)	D2 (11)	D3 (10)
Door	Zone01		Bypass	1	0	1	0
PIR	Zone02		Bypass	0	1	1	0
Temperature	Zone03		Bypass	1	1	1	0
Smoke	Zone04	Default is 24 hour zone	Bypass	0	1	0	1
Gas	Zone05	Default is 24 hour zone	Bypass	1	1	0	1
Water	Zone06		Bypass	0	0	1	1
Glass	Zone07		Bypass	1	0	1	1
Glass(external)	Zone08		Bypass	0	1	1	1
PIR(external)	Zone09		Working	1	1	1	1
Door(external)	Zone10		Working	1	1	0	0
Smoke(external)	Zone11	Default is 24 hour zone	Working	1	0	0	1