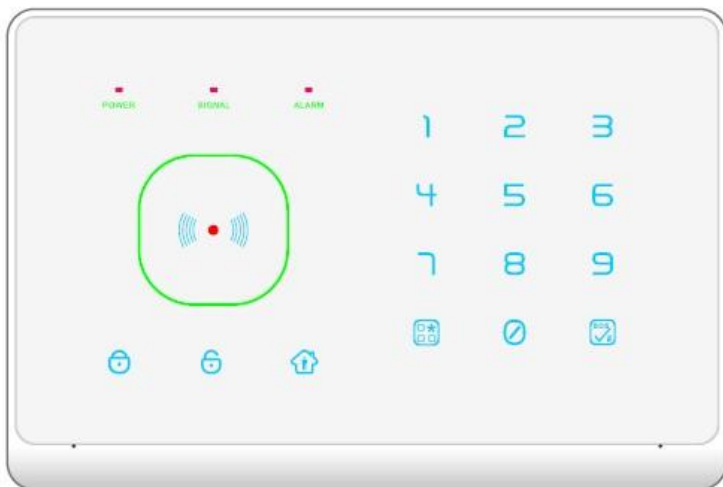


GSM RFID VOICE Alarm System



User's Manual

For a better understanding of this product, please read this user manual thoroughly before using it.

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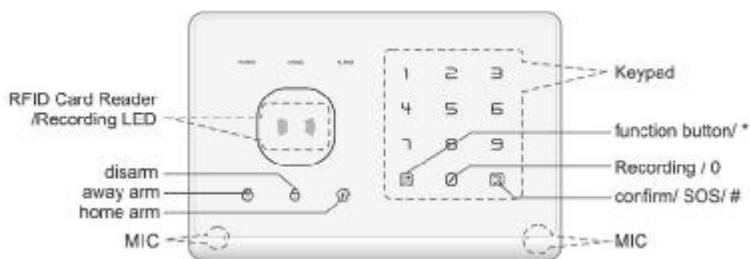
[Function Instruction]

- 2 Multi-languages voice (default: English and Chinese); system volume is adjustable (low, medium and high);
- 2 99 RFID cards to arm, disarm, and control the relay;
- 2 SMS notification for disarm by RFID card; SMS content (of the first 10 cards) is editable;
- 2 12-second voice message: by control panel or remotely;
- 2 Broadcast system time and play voice message;
- 2 Use panel as a telephone to make calls;
- 2 Set the system by control panel, SMS or remote calls;
- 2 10 remote controls, 99 wireless and 2 wired defense zones;
- 2 Sensor low power alert and tamper alert;
- 2 Some of SMS alarm contents are editable;
- 2 SMS alert for control panel tamper, low power, power failure/ recovery;
- 2 Remote control the relay.

[Control Panel]

In order to make the control panel get the wireless signal well for all wireless accessories, please put the control panel at the central place of your defense area. Make sure it's away from large metal objects and household appliances which may cause high frequency interference, as well as barriers such as reinforced concrete wall or fire door, etc.

Control Panel front schematic diagram:



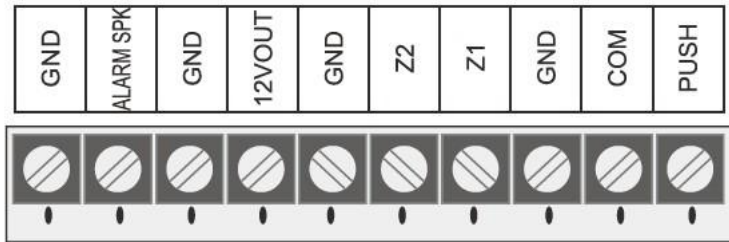
LED indicator:

LED	LED Status	System working status
POWER	ON	Power supply is normal
SIGNAL	Flash per 0.5 second	Checking SIM card
	Comfort LED flashing	Checking GSM network
	Flash every 3 seconds	GSM network is normal
ALARM	ON	Alarming
	Flash per 0.5 second	Alarming delay
	Flash every 3 seconds	Remote call control
	Flash very quickly	Receive SMS with correct password
RECORD	Comfort LED flashing	Recording
	Flash twice	RFID card reading successfully
	ON	Playing voice message
	Flash twice every 2 seconds	New voice message

Control Panel back schematic diagram:



Wired terminal block:



1	GND	GND
2	ALARM SPK	Positive of siren (red cable)
3	12VOUT	Positive of 12V output
4	Z2	Wired sensor 2
5	Z1	Wired sensor 1
6	COM	Relay port
7	PUSH	Relay port

Note:

1. Please pay attention to the siren connection. Positive side to “ALARM SPK” and negative to “GND”. Do not mix the two cables together when connecting. Otherwise, it will damage the transistor in the control panel.
2. Wired sensor connection: connect one cable of the wired sensor to GND and the other to “Z1 or Z2”. The default SMS content for Z1 and Z2 is “01/02 wire zone alarm!”. The content could be edited.

[Door Contact]

Door contact is used for detecting the status of open and close of windows and doors. It will detect it and send the signal to control panel.

- 2 Tear apart the double-side adhesive tape on the magnet and the transmitter. Then adhere them to the appropriate position.
- 2 Magnet should be near to the side of transmitter with indicator. The two should align with each other and the distance should not exceed 10mm.
- 2 Please plug out the antenna for better signal.
- 2 If the low-power indicator is on, please change the battery.



[PIR Detector]

PIR detectors are used to detect the movement



within a certain range.

- 2 Fix the adjustment bracket on the wall with the provided screws and attach the detector to the bracket. It is recommended to mount it at a height of 2-2.2m above the floor.
- 2 Effect of the PIR detection is best when the detection direction is in 90° angle with the walking direction of the intruder. Choose the most suitable installation place and angle according to actual situation and taking the following installation diagram as reference to ensure the detection effect is best.
- 2 Please do not fix it under direct sunlight or other strong lights and also keep it away from places with frequent strong air stream.
- 2 If the low-power indicator is on, please change the battery.

[Initialization]

-Please insert SIM card. Make sure the card has enough balance to make call and send SMS.

-Connect the siren, wired sensors, or relay

-Plug in power adaptor, and turn on the power switch. You will hear “welcome to use smart alarm system”. The POWER indicator will be on and the STATUS LED flashes in orange. The system starts checking the GSM network.

-set the language (English or Chinese): 00*0# (English); 00*1# (Chinese). After setting, all the voice prompt and SMS will be in the language you set. (Please refer to [command chart])

The system default language is English.

[System Alarm]

Alarm could be triggered by several different ways, including SOS button on the panel, emergency button on the remote controls, wireless sensors and

wired sensors.

Part to trigger alarm	How to trigger
SOS button on the panel	Press it in standby status, no matter under arm or disarm
Tamper alarm	The tamper alarm button on the back side of the panel is bounced up (not in setting status) SMS content: Panel tamper alarm!
Emergency button on the remote controls	Press it (not in setting status)
Wireless and wired sensors	For “real time” defense zone, trigger the sensor in arm status; For “urgent” defense zone, trigger the sensor in away arm/ disarm/ or home arm status; For “delay” defense zone, trigger the sensor in arm status; For “close” defense zone, trigger the sensor, it will not make alarm.

[System Settings]

1. Enter Settings

In disarm status, keep pressing  until you hear the voice prompt “please enter password”. Then input the setting password (system default: 123123).

If the password is correct, you will hear “password ok. Now please make choice: 1. system setting; 2. remote controls pairing; 3. defense zone pairing; 4. card pairing; 5. delete system settings.” Press the number of the setting, and  to confirm. It enters the correspondent setting status.

If the password is wrong, you will hear “wrong password, please re-enter”. If it’s wrong for 3 times, or if there’s no operation over 60 seconds, the system will exit setting mode and return to disarm status.

2. Pair Remote Controls

Extra remote controls has to be paired to the control panel in order to perform normally. The one in the standard package has been paired.

This alarm system supports maximum 10 remote controls.

In setup state, press 2 to choose remote controls pairing and  to confirm. The panel will make two beeps. Then press any button of the remote controls. The panel will make voice prompt “pairing completed; remote controls XX” after it receives the signal from the control. (XX means the serial number of the remote controls).

3. Pair Wireless Sensors

Wireless sensors have to be paired to the control panel in order to trigger it alarm. The wireless PIR and door contact in the standard package have been paired.

This alarm system has 99 wireless defense zones.

In setup state, press 3 to choose defense zone pairing and  to confirm. The panel will make two beeps. Then trigger the wireless sensor you want to set. The panel will make voice prompt “pairing completed; XX wireless defense zone” after it receives the signal from the sensor (XX means the defense zone number). And then you will hear “please choose zone type: 1. Real Time; 2. Urgent; 3. Delay; 4. Close”. Choose the zone type and then press  to confirm. If you do not choose the defense zone type and press  to confirm. The zone type will be regarded as real time zone.

4. Pair RFID Card

RFID card refers to Radio Frequency Identification card. It can be used to disarm the alarm system, control the relay, etc. This system supports maximum 99 cards.

In setup state, press 4 to choose defense zone pairing and  to confirm. The panel will make two beeps. Then swipe the card over the card reading area. The panel will make voice prompt “pairing completed; XX card”. (XX means the card serial number).

For above pairing of remote controls, wireless sensor, and RFID card, the

system will exit and return to disarm status if there's no operation over 30seconds. If the remote controls or wireless sensor or card has been paired before, you will hear "repeat pairing".

5. Leave Voice Message

This system supports voice recording by the control panel or by remote call. The maximum time for recording is 12 seconds.

a. Leave message by the control panel

Keep pressing  on the panel until you hear "start to leave message". 12 seconds later, the panel will make a beep indicating the recording stops. If your recording is less than 12s, you can press  to stop.

b. Leave message by remote call

Please enter remote control mode (refer to the part [Remote Control]). Press "0#" to make voice record.

The RECORD LED will flash if there's new message.

6. Play the Message

In standby status, press . The system will broadcast the present time and play the recorded message.

7. Voice Message Timely Alert

Users can set a certain time, at which the alarm panel will broadcast the time and play the recorded voice message automatically. It supports maximum 3 groups of time.

Setting method:

1. Activate this function: 06*A*B#
A: 1~3; refers to the first to third group of time
B: 0/1; activate/ deactivate this function (1: activate)
2. Set the time: 07*A*XXXX#
A: 1~3; refers to the first to third group of time
XXXX: 0000~2359, the time

For example: set the first group time as 08:30

Operation: 06*1*1#, 07*1*0830#

8. Relay Control

Users can control the relay by 3 different ways.

1) RFID card

In standby status, swipe the RFID card over the card reading area. You will hear “away arm”. Then press 1 to open the relay (the wire ports “COM” and “PUSH” are connected), and press 2 to close it (“COM” and “PUSH” disconnected).

2) SMS

Users can send SMS to the alarm panel to control the relay.

Open the relay: remote control password+[#5#]

Close the relay: remote control password+[#6#]

Note: the default remote control password is 123456.

3) Remote call

Users can also control the relay by remote call. (Please refer to the part [Remote Control])

9. Monitor Panel Power

This system has the function of SMS alert for external power failure, power recovery and battery low power. When the external power is cut off, the built-in LI battery will keep the system working. You can choose to activate/deactivate this function. System default: deactivated

Setting method: 02*X# (X: 0/1; 0: deactivate; 1: activate)

The SMS content for external power disconnection: Power charger off;
power recovery: Power charger on;
battery low power: System low power.

10. Connect Outdoor Siren

The alarm panel has built-in transmitter which can work together with wireless sirens.

In setup status, press 1 to enter “system setting” and  to confirm. Then press 44*1#.

Set the wireless siren in pairing status. Then press arm/ disarm/ SOS button on the alarm panel. The panel transmitter will send wireless signal. And the siren will make a beep after receiving this signal.

After setting the wireless siren, it's recommended to encrypt it to avoid interference. The signal code sent from the panel transmitter of this model from our company are the same. If you and your neighbor both are using this model, the alarm signal from your neighbor may cause your siren to sound.

In "system setting" status, press 45*XXXX#. XXXX is a 4-digit number which could be input randomly (0000~9999). The default is 1111.

11. Check System Status

Users can send SMS to the panel to check the system status. SMS format: remote control password+command

	Command	SMS reply
System status	100#	The system status: arm/ home arm/ disarm.
IMEI code	101#	IMEI: (15-digit number)
Alarm phone number	102#	Call1:XXXXXXXXXX Call2:XXXXXXXXXX Call3:XXXXXXXXXX Call4:XXXXXXXXXX Call5:XXXXXXXXXX
Alarm SMS number	103#	SMS1:XXXXXXXXXX SMS2:XXXXXXXXXX SMS3:XXXXXXXXXX SMS4:XXXXXXXXXX SMS5:XXXXXXXXXX

12. Command Chart

In setup status, press 1 to choose "system setting" and press  to confirm. Then do the settings according to the following command. All the following settings can be finished by the control panel, SMS and remote call except specially marked.

Function Setting	Command	Description
Language setting	00*[0/1]#	0: English, 1: Chinese
Voice volume	01*X#	X: 1~3; 1: low, 2: medium, 3: high
Panel power failure /recovery/battery low power alert	02*[0/1]#	0: off, 1: on. System default: off.
SMS reply for setting	03*[0/1]#	0: off, 1: on. System default: on.
SMS alert for RFID card disarm	04*[0/1]#	0: off, 1: on. System default: off.
Time setting	05*XXXX#	XXXX: time 0000~2359
Voice message timely alert	06*A*B#	A: 1~3, B: 0/1
Voice message alert time	07*A*XXXX#	A: 1~3, XXXX: time 0000~2359
Phone call time setting	08*XX#	XX: time 00~60minutes. When users receive alarm call, or remotely call the alarm panel, the call will be automatically hung up if there's no operation within this time.
Tamper alarm setting	09*[0/1]#	0: off, 1: on. System default: off.
Wireless defense zone type setting	10*XX*Y#	XX: defense zone number 01~99, Y: zone type 1. Real time; 2. Urgent; 3. Delay; 4. Close
Wireless zone "home arm" setting	11*XX*Y#	XX: defense zone number 01~99, Y: 1. Activate, 0. Deactivate. After activate this function, in home arm status, when the sensor in this defense zone is triggered, it will trigger alarm.

Wireless zone alarm ring	12*XX*Y#	XX: defense zone number 01~99, Y: 0: off, 1: on. e.g.: 12*01*1# the siren will ring when zone 01 is triggered.
Wired defense zone type setting	13*XX*Y#	XX: defense zone number 01~02, Y: zone type 1. Real time; 2. Urgent; 3. Delay; 4. Close
Wired zone "home arm" setting	14*XX*Y#	XX: defense zone number 01~99, Y: 1. Activate, 0. Deactivate. After activate this function, in home arm status, when the sensor in this defense zone is triggered, it will trigger alarm.
Wired zone alarm ring	15*XX*Y#	XX: defense zone number 01~02, Y: 0: off, 1: on. e.g.: 12*02*1# the siren will ring when zone 02 is triggered.
Wired zone trigger method	16*XX*Y#	XX: defense zone number 01~02, Y: 1. NO, 0. NC.
Delete remote controls	17*0#	Could only be set by the alarm panel.
Delete wireless sensor	18*0#	
Delete RFID card	19*0#	
Change remote control password	30*XXXXXX#	XXXXXX: new password (6-digit). System default: 123456
Change setting password	31*XXXXXX#	XXXXXX: new password (6-digit). System default: 123123. Note: remote control password and setting password could not be the same.
Alarm call circle time	40*XX#	XX: 00~99, system default: 03.

Alarming time of siren	41*XX#	XX: 00~30 minutes. 0 means no sound when alarming. System default: 03.
Delay arm time	42*XX#	XX: 00~99seconds. System default: 0 (no delay)
Delay alarm time	43*XX#	XX: 00~99seconds. System default: 40
Wireless transmission	44*[0/1]#	0: off, 1: on. System default: off.
Wireless siren encryption	45*XXXX#	XXXX: 0000~9999. System default: 1111
Store alarm phone number	50*X*Y#	X: serial number 1~5. Y: phone number (maximum 20 digits)
Delete phone number	50*X*#	X: serial number 1~5
Alarm SMS number	51* X*Y#	X: serial number 1~5. Y: phone number (maximum 20 digits)
Delete SMS number	51*X*#	X: serial number 1~5
Wired zone alarm SMS content (This could only be set by SMS.)	90*XX*content#	XX: zone number 01~02. e.g.: 123123#90*01*Alarm!# This means when wired zone 01 is triggered, users will receive this SMS: Alarm! SMS content could not exceed 48 English letters or 12 Chinese characters.
Wireless zone alarm SMS content (This could only be set by SMS.)	91*XX*content# (SMS content could not exceed 48 English letters or 12	XX: zone number 01~16. e.g.: 123123#91*04*Door Alarm!# This means when wireless zone 04 is triggered, users will receive this SMS: Door Alarm!

	Chinese characters.)	
SMS content for RFID card disarm	92*XX*content# (SMS content could not exceed 48 English letters or 12 Chinese characters.)	XX: RFID card serial number 01~10. e.g.: 123123#91*02*Tom disarm# This means when the system is disarmed by the second RFID card, users will receive the SMS: Tom disarm.

13. System Setting by SMS

All the above settings could be finished by SMS.

Use a mobile phone to send message to the alarm panel. The SMS format: setting password+command (default password: 123456). After successful setting, you can receive a message feedback: ok, program successfully. If the setting SMS is wrong, you will receive: FORMAT ERROR!

Note: SMS setting is easily affected by GSM network which may cause delay, so it's recommended to do the settings by the panel or remote call.

14. System Setting by Remote Call

Most of the above settings could be set by remotely call the alarm panel. Call the alarm panel with a mobile phone or land line phone; you will hear voice prompt "please enter password" when the call gets through. Input the setting password (default: 123123) and "#".

If the password is wrong, you will hear "wrong password, please re-enter". If it's wrong for 3 times, or if there's no operation over 30 seconds, the call would be hung up automatically.

15. Delete Settings

In setup state, press 5 to choose "delete system settings" and press  to confirm. Then you will hear two beeps. All settings by users will be deleted and return to factory default setting, but the coding record will not be deleted.

16. Factory Reset

In standby status, press disarm button on the panel. After hearing “please enter password to disarm”, input “95175308246” and press  to confirm. The panel will make voice “back to factory reset” indicating setting finished.

After this operation, all the settings are returned to factory default and all the coding will be deleted.

[Operation Instructions]

1. System Status. There are 4 status as following:

- I Away Arm: defense zone 1~99 will alarm when detectors are triggered
- I Home Arm: in home arm status, the defense zone which is set as [Home Arm] will alarm when detectors are triggered
- I Disarm: defense zone 1~99 will not alarm when detector triggered (except immediate defense zone)
- I System setup status: In this status, all defense zones will not alarm when detectors are triggered.

2. Remote Controls Operation

Users can use remote controls to set system as Away Arm, Home Arm, Emergency Alarm, Disarm and etc.



3. Away Arm

The Away Arm function will arm the alarm system all around your house, including the sensors, while everyone is going out. When the detector is triggered either by unauthorized entry, fires or smoke gas leak, etc., the alarm system will trigger the alarm.

Operation by the control panel: Press  button on keypad, system will enter arm status 40seconds later or delay time set by the user. For each second of the delay time, the panel will make a beep.

Operation by RFID card: swipe the card over the card reading area, the Recording LED will flash twice and the system enters away arm status.

Operation by SMS: remote control password (default: 123456) + [#1#]. The control panel will send a message back “->OK, system armed”.

4. Home Arm

This alarm mode will allow the system to be setup so the alarms are only triggered through the external sensors, when there is someone inside the property. It will enable the peripheral door, window, balcony and boundary detectors of the alarm system while disabling the indoor detectors. If the internal sensors are enabled it may cause false alarms and unwanted alarm trigger warnings.

Firstly you need to activate the wireless zone home arm setting (please refer to the [command chart]).

Operation by the control panel: Press  button

5. Disarm

This will stop the alarm alert when the alarm has been triggered, or it will disable the system. After disarming, even if you trigger the detector, the main unit would not sound alarm (excluding immediate defense zones).

Operation by the control panel: press  button and then input the password (default: 123456) and finally press 

Operation by RFID card: swipe the card over the card reading area. Do not take it away until you hear a long beep and two short beeps.

Operation by SMS: remote control password (default: 123456) + [#2#].

The control panel will send a message back “->OK, system disarmed”.

6. Emergency Help

Press  button on the control panel for about 3 seconds. No matter the system is in arm or disarm status, it will make alarm immediately.

7. Answer Alarm Call

When the control panel sounds the alarm, it will dial the preset numbers. If no one answers the call, the system will call the next user number automatically. The system will call each preset numbers for 3 times in order. (This “Alarm call circle time” could be set referring to [command chart])

If you answer the call, you will hear the alarm voice (e.g. If zone 01 is triggered, you will hear "01 wireless zone alarming"). You can set system via your telephone or mobile phone keypad.

If you hang-up directly without answering the call, the system will keep calling the next number.

Press [1#]: System stops alarming and Arm; it stops calling users.

Press [2#]: System stops alarming and Disarm; it stops calling users.

Press [3#]: Turns siren off and monitors the scene.

Press [4#]: System starts two-way intercom. It cannot be controlled by the mobile during the time of intercom.

Press [5#]: Turn relay on.

Press [6#]: Turn relay off.

Press [#]: Play the alarm message again.

8. Remotely Control

Dial the number associated to the control panel by phone (mobile phone), and after one ringing cycle, you can hear a voice prompt “Please enter password”. Input the remote control password (default: 123456) and “#”. If the password is right, you will hear “password ok, please enter command”. If the password is wrong, you will hear a prompt voice “wrong password, please re-enter”.

Press [1#]: arm, if finished successfully, you will hear a voice prompt “arm”.

Press [2#]: disarm, if finished successfully, you will hear a voice prompt “disarm”.

Press [3#]: monitor the scene.

Press [4#]: two-way intercom. You can't operate the system during this time.

Press [5#]: Turn relay on.

Press [6#]: Turn relay off.

Press [0#]: Leave voice message. You will hear voice prompt “please leave message after beep”. 12seconds later, it prompts “message finished” and exits.

[Note]

For each pressing, there will be a short beep sound. If there's no beep sound, please re-enter. And there will be three short beeps for wrong operation.

9. System Dialing Function

In disarm status, you can use the main unit to make any call just like a land-line telephone. Press  button on the panel, you will hear voice prompt “please input phone number”. Dial the telephone number on the keypad and then press . Press  can delete the number input. And keep pressing  for a long time can exit or hang up the call.

[Technical Parameters]

Power supply: AC=100V~240V, DC=12V, 1.2A

Built-in battery: 7.4V, 1000mA LI battery

Standby current: <70mA

Alarming current: <450mA

GSM band: 850/900/1800/1900MHz

Wireless frequency: 433MHz ± 0.5 MHz

Wireless receiving sensitivity: 5mV/m

Wireless modulation: ASK
Anti-interference: 1V/m (frequency range: 20~1000 MHz)
Wireless sensors: 99pcs
Remote controls: 10pcs
RFID card: 99pcs
Working temperature: 0°C~+40°C
Humidity: ≤90% (no fog)

[Components List]

Control panel	1 pc,
Remote controls	2 pcs,
Wired mini siren	1 pc,
PIR detector	1 pc,
Door contact	1 pc,
RFID card	2pcs,
Power adapter	1 pc,
User manual	1 pc.

[Care and Maintenance]

The alarm system has excellent design and uses advanced technologies. It shall be used with care. The following suggestions are required to maintain your obligations under the warranty terms, and for prolonging the service life of the system.

² Place the control panel and all parts and accessories out of children's reach.

² Keep the alarm system dry. Rain, humidity and various fluids or

moisture all will corrupt the electronic circuit.

² Do not use or place the alarm system in dirty locations, otherwise the electronic elements will be damaged.

² Do not place the system in excessively hot locations. High temperature will shorten the service life of electronic equipment, damage batteries, deform or even melt some plastic parts.

² Do not place the system in excessively cold locations. Otherwise condensation may occur and damage the circuit board of the alarm system.

² It is recommended that you check and test the alarm system periodically:

Check the control panel every three months:

1. Whether it can arm/disarm normally;
2. Whether it can dial the number for alarm normally;
3. Whether it can receive wireless detectors' signal normally;
4. Whether the back-up battery can work normally.

Check the wireless detectors once a month:

1. Trigger wireless detectors to see if system can alarm normally;
2. Check all detectors' batteries to see if it's in low voltage;
3. Check whether wireless detectors can send signal to the main unit normally.

Check the SIM card:

1. Check the use of SIM card, such as network signal, balance, etc.
2. Make sure the PIN code verification of the SIM card is closed.
3. Please keep the password and SIM card number safe, in case that other people remote control the system illegally.

² Since the alarm system is continuously in operation or standby mode, the supply adaptor of the control panel shall be connected to a safe and reliable socket.

² Do not place the system near your bedroom or office table, because the siren will make high-loudness sound in the case of alarm, which may adversely affect your rest or work.

² If the alarm system will not be used for a long time, please disconnect the system from the power supply.

² Please do not disassemble, repair or alter the products without permission, or it may cause accidents and faults.

² Do not drop this product on the ground or on hard objects, as it may lead to massive impact to cause faults and damages.

² Without approval and consent of relevant authorities, please do not set “112”, “911” or the alarm phone number of police station for this main unit.

Please read the suggestions above carefully and follow the instructions herein. If any of the equipment does not work properly, please send it to the dealer or authorized service point for repair. We will try our best to solve the problem for you as soon as possible.

The following accessories are optional:



Signal booster



Wireless Keypad



Wireless Outdoor
Flash Siren



Door sensor



Panic Button



Remote controls



Smoke Detector



Gas Detector



PIR detector

Optional sensors/detectors are packed separately. You can choose according to your specific requirements.