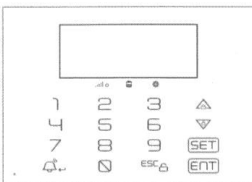# GSM

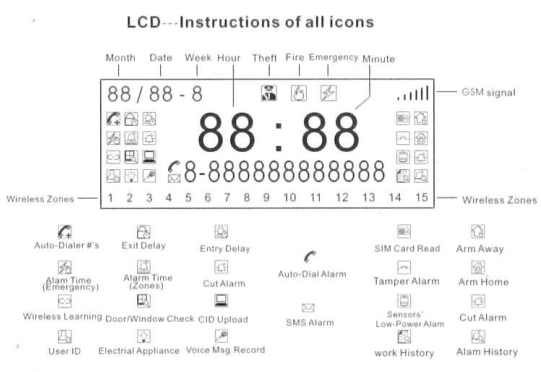LCD Touch Keypad Wireless Intelligent
Alarm System

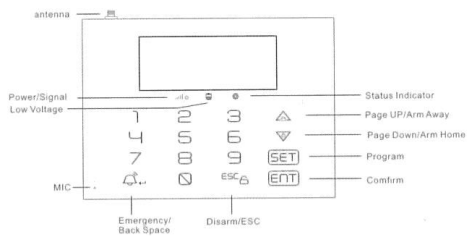*User's Manual*

1

III. Function Features

- Touch keypad, blue backlights; blue LCD displays Date, Day of the week, Time, and current Armed Status;
- Concise icons guided LCD display. Suitable for every market all over the world.
- 2 /4 Band GSM net-work. Supports phone call alarm and SMS alarm, SMS includes zone number and alarm event type.
- 15 wireless zones (Each zone supports up to 4 sensors) and 1 dedicated zones for remotes (Supports up to 10 remotes or wireless keypads per zone). Supports 2 wired zones (optional).
- Can preset up to 6 phone numbers and dial in sequence. Every mobile phone number can be set for phone call alarm or SMS alarm.
- Intelligent logic analysis technology, corresponding zone number can be displayed on LCD screen.
- Record up to a 10 second greeting for phone call alarms which can be heard when answering the alarm call.
- Arm\ Disarm the system by 5 ways: SMS, Main Host (Keypad), Wireless Keypad (optional), Keychain Remotes,and phone calls. (PSTN alarm don't support SMS)
- Available in AC\DC, Low-voltage alerts.
- "One-Key" arm, studies sensors to alarm host, very easy operation.
- Non-volatile chip, information stored automatically when off power.
- Disconnection alarm, auto priority to occupy the telephone and monitoring function to hear what is happening.
- Door\window status self-check and "Ding Dong" doorbell can be completed as optional functions.
- 8 zone electrical appliance control and 8 groups of scene control can be completed as optional functions.

- Built-in Lithium backup battery, perfect system self-check, alerts of no SIM card, alarm host low power, no external power supply and even low battery power of sensors.
- Support CID (Contact ID).Can user our GSM SMS CID connector to complete this function.
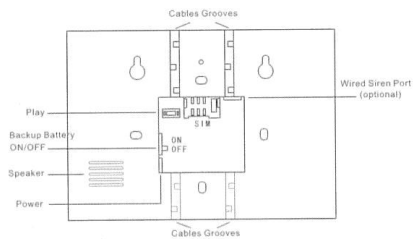- "Black Box " data record function, stores up to 99 alarm records and 99 arm\disarm records

IV. Understanding of the Products

A. Understanding of the Alarm Host

LCD---Instructions of all icons

antenna

Power/Signal
Low Voltage

Status Indicator

Page UP/Arm Away

Page Down/Arm Home

Program

Comfirm

MIC

Emergency/
Back Space

Disarm/ESC

Front Side Preview

Cables Grooves

Wired Siren Port
(optional)

Play

Backup Battery
ON/OFF

Speaker

Power

Cables Grooves

ON
OFF

SIM

Back Side Preview

1. Specifications:

- Working Power: AC=100~230V, DC=12V 1A
- Static Current:<50mA (when not charging) Alarm Current:<500mA
- Working Condition:

  Temperature: -10ºC ~ 50ºC Humidity: <80%
- Built-in Lithium backup battery: 3.7V 800mAH(rechargeable),
- Standby: around 16 hours, Full charging time: 12 hours
- Supports up to 10 remotes; Supports up to 60 wireless sensors.
- 2-Band GSM: GSM900/1800Mhz (4-Band is optional: 850/900/1800/1900Mhz)
- GSM Transmit Power: 2W
- Receiving and Emitting Frequency: 433MHz /868MHz optional
- Product Dimension:150×107×26(mm)

2. Zone types and definitions

- Zone types: Perimeter zone, Motion zone, Emergency zone
- Definitions:

Perimeter zone: Detecting the space like doors, windows, etc., generally use wireless door magnet sensors and wireles curtain PIR sensors

Motion zone: Detecting the space like living room, aisles and bedrooms, etc., generally use wireless wide-angle PIR sensors.

Emergency zone: Detecting the space like Emergency area (such as emergency distress, medical rescue, gas leakage and fire alarm, etc., this zone keep 24-hour monitoring status automatically. Generally use panic button, wireless gas sensors and wireless smoke sensors.

Table 2: "Zones Number" Table

Zone Number	Sensor Type	Zone Type	Alarm Type	Applicable sensor names	Notes
00	——	——	——	Wireless remote & Wireless Keypad	Up to 10
01 ~ 05	Wireless sensors	Emergency zone	Emergency	Panic button	Each zone support up to 4 sensors
			Fire	Wireless Gas Alarm, Wireless Smoke Alarm,etc.	
06 ~ 10		Perimeter zone	Theft	Wireless Door/Window Sensor & Wireless Curtain PIR etc.	
11 ~ 15		Motion zone	Theft	Wireless Wide-Angle PIR Motion Sensor etc.	
14 ~ 15	Wired sensor	Perimeter zone	Theft	Wired PIR Sensors	(Omitted)

3. Modes of arming：

- "Away Arm" mode：All arm. Once any detectors in perimeter zones or motion zones get triggered, the host will alarmimmediately and meantime dial "#" automatically.
- "Home Arm" mode：Part arm. Once any detectors in perimeter zones get triggered, the host will alarm immediately and meantime dial "#" automatically. It will not alarm after any detectors in the motion zone are triggered.

4. How to operate the alarm host

1. Insert SIM card: properly insert a valid SIM card into the card slot by keeping its missed corner at the right lower Side (Note: Never insert a SIM card when host power ON);
2. Fix the antenna: Install the antenna attached in package by rotating it to the port on top of the host.
3. Connect power: connect the power adaptor to DC port of the alarm host first and then plug it to the AC socket.
4. Turn on the backup battery: Slide the backup battery switch on the back side of the host to "ON"

- **How to check SIM card working status and signal level status**
Check below information when power ON:
1. SIM card status: icon of SIM card read does not display means card recognized; this icon flashes means no SIM card or SIM card not recognized;
2. GSM signal status: more filled icon of SIM card means better signal; less filled means weaker signal;
3. GSM signal indicator: indicator flashes slowly every 3 seconds means normal signal; fast flashes every 1

- **How to program**
Notes:
- Getting into programming mode is necessary for each program .It will exit to the previous menu if press "ESC"
- The host will exit programming mode if no press within 20 seconds;
- If enter wrong password for 3 times, the host panel will resume to the standby mode;
- You can press "▲▼" to adjust programming information or check find alarm history etc.

Table 3: Easy Program Guide

Icon	Function	Operation	Detailed Instructions
___	Start to program	SET + 6 digits password + ENT	Default before shipment : 8 8 8 8 8 8
___	Set Date	ENT + "▲▼" + ENT+ "▲▼" + ENT + "▲▼" + ENT + "▲▼" + ENT	Correct input: year, month, date and day of the week. Note: Keep pressing for fast page turning.
___	Set Time	ENT + "▲▼" + ENT + "▲▼" + ENT + "▲▼" + ENT	Correct input: hour, minute and second. Note: Keep pressing for fast page turning.
📞	Set Auto Dialer #'s	ENT + press 📧" button consecutively to delete old records + Tel No. + ENT + "▲▼" + ENT	1. The 1st Group is fixed for management center and the other 5 groups for personal phone numbers. 2. Press "▲▼" : to select alarm mode : " 📞 " means "phone call alarm" ; " 📧 " : means "SMS alarm" 3. Set group by group. 4. The number of each group can't exceed 12 digits.
🔒	Set Exit Delay	ENT + press "📧" button consecutively to delete old records + desired delay time +ENT	Second, 2-digit, any number from 00 to 59 is valid. Default before shipment is "00" ;
🕐	Set Entry Delay	ENT + press "📧" button consecutively to delete old records + desired delay time +ENT	Second, 2-digit, any number from 00 to 59 is valid. Default before shipment is "00" ;
⚡	Set Alarm Time (Emergency)	ENT + press "📧" button consecutively to delete old records + Alarm Sound Duration + ENT	Minute, 2-digit, any number from 00 to 59 is valid. Default before shipment is "01" ;
🔔	Set Alarm Time (Zone)	ENT + press "📧" button consecutively to delete old records + Alarm Sound Duration + ENT	Minute, 2-digit, any number from 00 to 59 is valid. Default before shipment is "01" ; Note: Fire alarm is fixed for 3 minutes.
⊂·⊃	Wireless Learning	(Omitted)	(Omitted)
⊞	Set Door/ Window	ENT + "▲▼" + ENT	Press "▲▼" to choose "1" or "0" : "1" : activate ; "0" deactivate ;
💻	Set CID Upload	ENT + "▲▼" + ENT	Press "▲▼" to choose "1" or "0" : "1" : upload ; "0" :NOT upload ;

	Set User's ID	ENT + press" ⌨ "button consecutyivery to delete old record +User's ID+ ENT	4-digit, generally provided by the management center， valid scope is 0000~9999.
	Set Electrical Appliances	ENT + "▲▼"to choose scene number +press"⌨" to delete old record + input electrical appliance number + ENT	8 scenes in total with number of 1~8, press "▲▼" to choose：Each electrical appliance number can't exceed 8 digits and each one is for one scene.
	Record Voice Alarm Message	ENT + ENT + voice message record +ENT	10 seconds capacity. Counted down from 10, can press ENT to end and save the record, or can wait till counted to 0 and system will save the record automatically.
	Check Work History	ENT + "▲▼" + ENT	Press "▲▼" to review up to 99 work records, press "ENT" to exit.
	Check Alarm History	ENT + "▲▼" + ENT	Press "▲▼" to review up to 99 alarm events, press "ENT" to exit.

Note: Press ESC to exit from the programming state after finishing programming.

● **How to Revise Programming Password**

In order to keep program password safe and to be easily remembered. users can change it via below setting:【SET + 999999 + ENT + enter new password + Input 6-digit new password + ENT + re-enter new password】The host panel will be back to the standby mode after successful programming.

Note: 1、 **Program light will turn on after pressing "SET" and turns off after finishing program.**
　　2、 **Beeps of "Di Di------" indicates successful operation；Beeps of "Di Di" indicates wrong operation.**

● **How to operate the Alarm Host**
1. **Record** : Operate on host and get into program mode, find "voice alarm message" and to record.
2. **Play** : Keep pressing the "play button" on the back of the alarm host and you will hear the previous record.
3. **Arm** : **BY wireless remote** : press the corresponding arm button and the host will beep once to successfully complete the operation;
　　By Host panel (Keypad): press "▲▼" to choose "armed away" or "armed home"
4. **Arm remotely by phone**: 30 seconds after successfully dial the telephone number of host, enter the password of host after the beep---enter 1 after beep— the host will automatically hang up after beep to successfully complete the operation.Notes: Arm remotely by phone is only for "Armed away"！

5. **Arm by SMS**: You can edit SMS "password+1" to host panel, the host panel would arm automatically when getting this SMS, and also will message back to mobi "Armsuccessfully".
   Notes: Arm by SMS is only for "Armed away"！
6. **Disarm**: **By wireless remote**: press the corresponding disarm button and the host will beep twice to successfully complete;
   By Host panel(Keypad)：【ESC + password + ENT】→the host will beep twice to successfully complete;
7. **Disarm remotely by phone**: 30 seconds after successfully dial the telephone number of host, enter the password of host after the beep---enter 0 afterbeep—the host will automatically hang up after beep to successfully complete the operation.
8. **Disarm by SMS**: You can edit SMS "password+0" to host panel, the host panel would disarm automatically when getting this SMS, and also will message back to mobile "Disarm successfully".
9. **Telephone alarm**: After receiving the call, you will hear the recorded voice message immediately, it can be played for 30 seconds repeatedly, then follow the below instruction
   9.1. Input "8" to enter into the listening status for 20 seconds automatically, you can hear the alarmingevent sounds from phone.Each extra press of "8" can prolong 20 second listening in.
   9.2. Input" #" to play the recorded voice message for one time automatically
   9.3. Input "*" , the host will end the call and stop dialing any auto dialer#.
   9.4. Directly hang off the telephone, the host will end the call and automatically dial the next auto dialer#.
10. **SMS reporting**: Mobile will get SMS like "From Alarm System: XX zone, YYYY is Alarm." , "XX" means the zone number. "YYYY" means the detailed sensor.

11. **Listen in**: 30 seconds after successfully dial the telephone number of host, enter the password of host after the beep---enter 8 after another beep—the host will I mmediately get in to listening in status for 20 seconds. Each extra press of "8" can prolong 20 second listening in; Hanging off to end automatically.
12. **Emergency help**: **By wireless remote**: Press Emergency button and the host will alarm immediately;
    By host panel (Keypad): press " ⚡ ", and the host will alarm immediately.
13. **Activate door/window self-check**: program a smart door/window sensor in any zone of Perimeter Zone, activate theself-check function (see Set Door/Window Check" in **Table 3**) and then put the smart door/window sensor and its magnet part as if a door/window closed to match with the host. as a smart door/window sensor;
    Note: 1). When arming the host, if any door/window monitored bya smart door/window sensor is not closed well, the corresponding zone number and the screen backlight will flash fast, at the same time, the host beeps 4 times (Di Di Di Di) every 2 seconds to remind you to close thedoor/window. Alert duration time is 30 seconds, it will exit from disarm operation after press ESC or door/window not get closed after 30 seconds; System can be armed if door/ window get closed within 30 seconds.
    2). If arm operation is proceeded again when any smart door/window sensor monitored door/window is not closed, the system will be forced to get into armed mode.
    3). If arming by SMS or phone call, just do it according to the corresponding instruction.
    4). If arming by remote or wireless keypad, system can be armed after do the arm operation twice successively.

5). The matched smart door/window sensor will work as a common door/window sensor after self-check function deactivated.

14. Deactivate self-check function:
1). Refer to "Set Door/Window Check" in Table 3;
2). Self-check function will be automatically OFF every time when the host is connected with AC power.

15. Wireless Doorbell:
1. Program doorbells into a zone according to the corresponding instructions and can be programmed into any zone of Perimeter Zone and Motion Zone;
2. Very press of the doorbell button, the alarm host sounds door chime "Ding Dong" Twice;
Note: This function is only valid when the alarm host is connected with AC power and not valid whenonly using backup battery.

16. Review Work History : get into program mode and find "Work History" to review up to 99 arm and disarm history.

17. Review Alarm History : get into program mode and find "Alarm History" to review up to 99 alarm event history.

18 . Electrical Appliance Control:
1). Control a single electrical appliance : input "9 + X + ENT " on host panel, "X" is electrical appliance number , valid from 1 to 8;
2). Scene control : input "0 + Y + ENT" on host panel , "Y" is scene number valid from1 to 8.
Note: 1). Only valid to control ON and OFF of the electrical appliances;
2). Corresponding wireless electrical appliances are required to complete this function

● **Important Operation Notes:**
1. Displays of alarm status: when host alarming, the status indicator keeps on, both the icons of the corresponding alarm zone and alarm type will keep flashing fast and then disappear after host disarmed, at the same time the alarm host make alarm calls and send alarm SMS.
2. Alarm processing mode: immediately after the system alarms, it starts to dial (or send SMS) in sequence from the 1st group number to the 5th group number (skip empty numbers) automatically. It dials (or send SMS) circularly for three times, the answered number (or the number which received the SMS) will not be dialed (or sent SMS) repeatedly.
3. Exit delay alert: the alarm host beeps "Di" every 1 second within preset exit delay time and then makes a long beep "Di---" to indicate delay time ends and host gets into armed status.
4. Alarm delay alert: the alarm host beeps "Di" every 1 second within preset alarm delay time and then keeps a long beep "Di---" to indicate delay time ends and host starts to alarm.
5. Alarm priority:
A. If the alarm host's own line is occupied when it is dialing the alarm phone number, it will cut it and make it unoccupied, at the same time dial out to report alarm event.
B. The alarm host's "Ding Dong" sound will switch to alarm sound and dial to report if it receives alarms signal when sounds "Ding Dong".
6. No external power alert: the alarm host beeps once "Di" every 8 seconds and at the same time status indicator flash once if external power disconnected.
7. Alarm host low backup battery power alert: the alarm host beeps "Di Di Di" every 8 seconds when power gets very low, at the same time the low power indicator keeps on.
8. Sensors' low power alert: When any matched sensor's power is not enough, it will send a low power signal to the host and the sensor low power icon will flash fast and the corresponding zone light keeps on, at the same time, host beeps "Di Di Di" every 8 seconds.
Note:
1) This function can't be completed on host if the matched sensors don't the corresponding function.
2) Input "5+ENT" can end the low power alert sound and at the same time the corresponding zone light will turn off automatically.

9. Tamper Alarm: If the host and its mounting bracket get disport when the host is working, the system will alarm.

Table 4: Easy guide of how to add and delete wireless accessories

Zone Type	Explanation	To Add	To Delete
	Get into program status and find the icon of wireless learning, then program sensors according to the instructions on the right side.	**ENT + press " ⊟ " to delete old record + " X X"2-digit zone number + ENT + " ▲▼ " to choose "1" + ENT + trigger the sensor twice successively** Note : 1. You can only add 1 piece each time, totally 4 available to be added foreach zone； 2. The earlier learnt sensor will be covered by the latest learnt one if exceeds the supported remote quantity.	**ENT + press " ⊟ " to delete old record + " X X" 2-digit zone number + ENT + " ▲▼ "to choose " 0 " + ENT** Note : Sensors in the same zone will be all cancelled after deleting operation. If need to keep some, you have to add again.
Remote	Wireless remote & Wireless One-Way Keypad	"X X":00	
	Wireless Two-Way Keypad	Has to match the keypad to host and match the host to the keypad	

Zone Type	Explanation	To Add	To Delete
Doorbell	Wireless Doorbell button	"X X": 06 ~ 15	
Emergency zone	Wireless Smoke Alarm, Wireless Gas Alarm& Panic button etc.	"X X":01 ~ 05	
Perimeter zone	Wireless Door/Window Sensor & Wireless Curtain PIR etc.	"X X":06 ~ 10	
Motion zone	Wireless Wide-Angle PIR Motion Sensor etc.	"X X": 11 ~ 15	

V. How to connect wired sensors (no need balance resistors)

Red (+)
Black(-)
Yellow (15 zones)
White (14 Zones)
Host

Host

+
GND
ARM
Sensors