LCD -based Intelligent Burglar Alarm System

User Guide

Ver 2.0

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1. Introduction

1.1 General Description

LCD –based Intelligent Burglar Alarm System is designed for both home and business use and is built on leading microprocessor technology. This versatile system is also equipped with powerful features and user-friendly interface as the most cost-effective solution for security. It has a built-in siren with super high sound volume of 120 dB that is loud enough as an alert for most noisy environment. The system allows at most 6 groups of phone number set up for calling notification that make sure you will not miss any happening of incident. The LCD on panel displays clear system message and the location of alert, together with the keypad on board, LCD-based Smart Burglar Alarm is an in-dispensable choice of security solution for your properties and safety.

1. 2 System Features

■Large LCD English blue back-light display, voice prompt, ease of use.
■Can check status and call records from panel.
■Allow up to 99 wireless defense zones and 4 wired zones.
■Each can be defined as one of the 8 zone types including NORMAL, STAY, INTELLIGENT, EMERGENCY, CLOSED, HELP SENIOR, WELCOME and CHIME.
■Four sets of scheduled arm/disarm function, each time disarmed you can select the included period of time and different defense zone, eliminating of need of the manual procedure, realizing the beauty of automatic controls
■6 group voice alarm phone number for alert calling, different zones can dial a pre-set telephone number, and numbers saved inside EEPROM without lost upon power failure.
■Support ISD automatic voice mailbox for playback message upon alert. Maximum length of voice message is 10 seconds.
■Telephone (phone) long-distance telephone control for arming, disarming, monitoring, remote announcement.
■Wireless intelligent study coding, compatible with PT2262 normal encoding and a 1527 encoding, convenient and flexible for adding or reducing accessories. Maximum support 150 remote control and 150 sensors.
■Unique black box features, you can display most recent 72 disarmed records and 102 recent alarm recording. Accurately shows the alarm time and zones number.

2. Anatomy of the LCD -based Intelligence Burglar Alarm

2.1 System Components and Usage

ARM

The system is at a fully ready status where all detectors are activated in a working state, when the some events (burglar, fire, gas leak, etc) happened and detected, alarm system alarm right away.

In a ARM status, the panel [ARM] light is on, LCD screen show "ARM" is also on.
To activate using remote control: press [ARM] key once.
To activate using keyboard: on panel keyboard [ARM] keys once

STAY ARM

This is for partial arming of the alarm system when there are people at home, only some of the selected sensors are activated and could be triggered by events.

In a STAY ARM status, the panel [ARM] light is on, LCD screen show " Stay arm " is also on.
To activate using remote control: press [Stay arm] key once.
To activate using keyboard: on panel keyboard [STAY] keys once.

DISARM

All sensors are deactivated and will not be respond to any events.
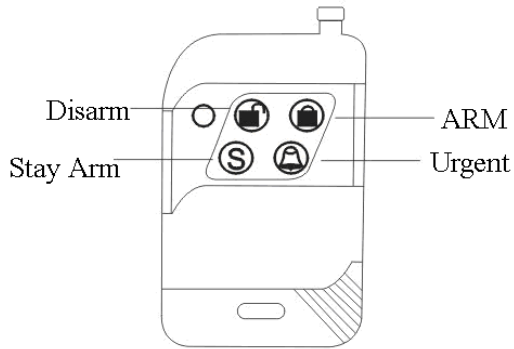
In a DISARM status, the panel [ARM] light is off, LCD screen show " DISARM " is on.
To activate using remote control: press [DISARM] key once.
To activate using keyboard: on panel keyboard [DISARM] keys once.

EMERGENCY

When an emergency occurs, press emergency button on the remote or the * button on panel to activate alarm.

Remark:

If password on keyboard is enabled, you need to enter password before other operations, the initial password is 1234.

2.2 System Setup

2.2.1 Panel Setup

Alarm panel should be installed at a central location with best transmission to all the wireless sensors and accessories. Keep the panel well away from large metal objects or household appliances with high-frequency interference, and avoid barriers such as concrete walls with metal frame inside and fire doors.

Alarm panel
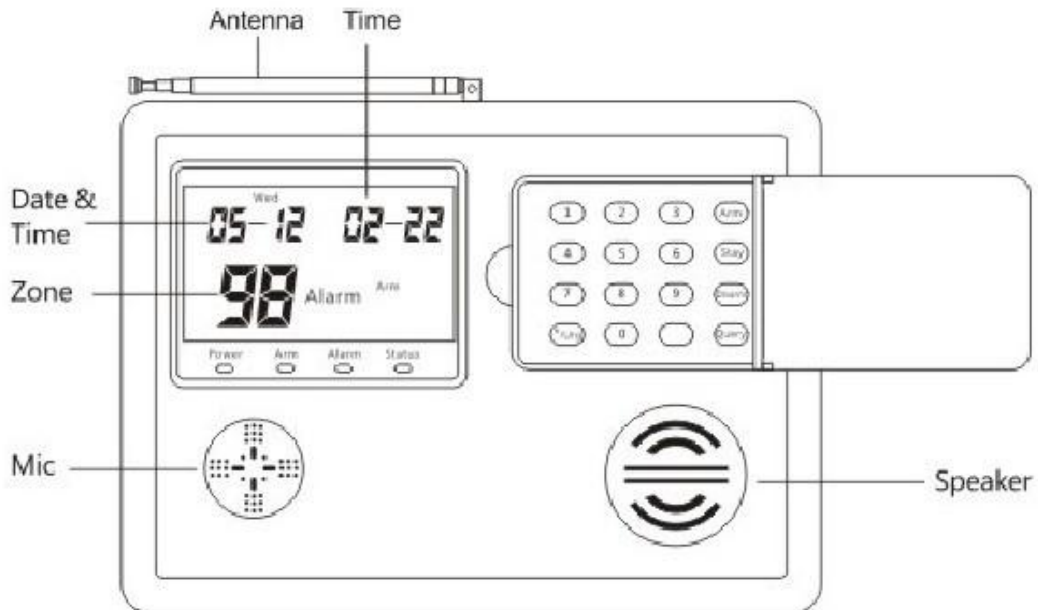
2.2.2   Connections of Cables
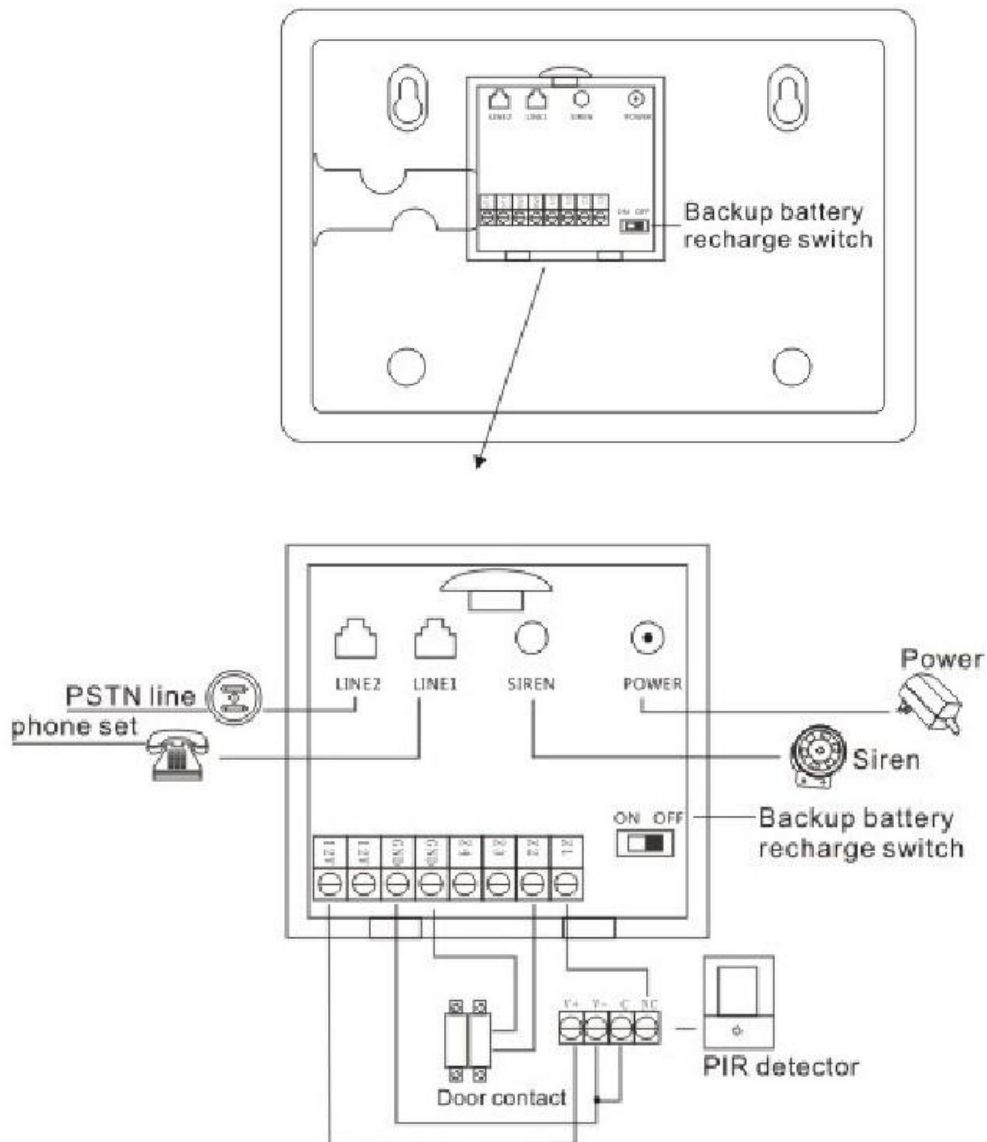
3. Commands of LCD-based Smart Burglar Alarm System

3.1.Operation upon receiving alarming call

After Panel alerts, it will automatically dial the preset telephone number for three times until connected. When the user picks up the phone, a piece of pre-recorded voice message will be played back immediately and let the receiver noted about the event.

Upon receiving the call, it can also control the alarm panel remotely via the phone (according to the command below). User will not be asked for password upon connected and alarm will automatically hang up call within receiving any instruction within 20 seconds.

[1]: arming   [2]: disarming
[3]: monitoring open   [4]: monitoring closed
[5]: siren on   [6]: siren off
[7]: Monitor the voice message in mailbox
[*]: Hang up

3.2 Remote Operation using phone

Dial into the alarm panel using telephone or cellular phone can carry out some operations remotely. Upon the panel pick up your call and connected, follow instruction played to input password, (default password is 1234), press the corresponding number on phone keypad for operation. Alarm will automatically hang up call after invalid password failed for three times in succession.

[1]: arming   [2]: disarming
[3]: monitoring open   [4]: monitoring closed
[5]: siren on   [6]: siren off
[7]: Monitor the voice message in mailbox
[*]: Hang up
[#]enter the configuration mode

3.3 Pre-record Voice Message

Alarm panel will play a pre-recorded voice message after the alarm call when a pre-set phone number upon alarm. To record customized message:
- Press "# "Key to enter the configuration mode:
- Then press 19#，speak your message at the panel for recording
- System will record 10 Seconds and then automatically exit; or press any key to end whenever your message end.
- Press *, then # exit setup status.

3.4 Add Remote Control:

Press "#" key to enter the configuration mode:
- Syntax: 07+(00~99)+#   to configure remote control
Example: 07 then press 01#, to configure the 1st remote control. Then press any key of the remote control to send a signal to the alarm panel, panel beep twice means

successful, beep only once means the remote control has been configured before. Alarm panel can configure up to 150 remote control of different addressing. Upon completion press # to exit the configuration mode, press * and then # exit the configuration mode.

3.5 Delete the remote control:

Press "# "Key to enter the configuration mode:
- Syntax 1: 08+(00~99)+#   to delete the remote control
- Syntax 2: 08+**+#   to delete all remote controls

Example: 08 then press 01# for deleting 1st remote control, then if you want to delete 8th remote control, press "08" instead of "01". Press # to exit the delete remote control, press * and then # to exit configuration mode.

3.6 Add detector

Press "# "Key to enter the configuration mode:
Syntax: 09+ (00~99) +# to set the detector
Example: 09 then press 01#, to configure 1st sensor, then trigger the detector to send a signal to the alarm panel. Panel beep twice means successful, beep only once means the remote control has been configured before. Alarm panel can configure up to 150 sensors of different addressing. Upon completion press # to exit the configuration mode, press * and then # exit the configuration mode.

3.7 Delete detector

Press "# "Key to enter the configuration mode:
Syntax 1: 10+ (00~99) +# to delete the detector
Syntax 1: 10+**+# to delete all the detectors
Example: 10 then 01#, to deleting 1st sensor. If you want to delete the 6th detectors, use "06" instead of "01". Upon completion press # to exit the configuration mode, press * and then # exit the configuration mode.

4   Command Reference

This system supports two methods of configuration including the local keyboard, telephone set. Following are examples how instructions are given via one of the two methods of setting
Example: you want to change the first phone number for voice calling to 13899998888:
Method 1: At the Keyboard
Press # to enter the configuration mode, and then press 3113899998888# , press the * then press # to exit configuration mode.
Method 2: By telephone set

Calling into the alarm panel, upon connected, alarm panel will ask for password, it is 1234 as the default, then press #, and then press 3113899998888# , press the *   then press # to exit configuration mode.

Remark:

The status LED is lit on the panel to indicate at the configuration mode, the status light is off upon exit.

Below is a table of all commands supported:

4.1 Commands for Configuration

Settings	Keypad Sequence & Parameters
Set up voice alarm phone number	To set the 1st group to the 9th group of voice alarm phone number 【 1-9 】 indicates that the first group to the Ninth group alarm number correspondingly. Example: If the user wants to set 13812345678 for the first set of voice alarm phone number **Method one:** After you press the # key to enter the configuration mode, press the 3113812345678#, * Then press # To exit Setup.
【 3 】 + 【 1-9 】 + 【Phone number】 + 【 # 】	**Method two:** Remote calling into the alarm panel put in password (initial password: 1234) when being asked, then press the # key, hear the voice prompt and then press 3113812345678#, then press # to exit the remote setting status. **Remark:** For users using the telephone line extension, you should dial a number (such as "9") to pick up a dialing tone, then with your command you should add to this number a " * ". So the completed command becomes 9*13812345678# **Remark:** 7,8,9 group number for HELP SENIOR zone and panel will only dial these three groups number when that specific zone alarming.
Delete voice alarm phone number	Used to delete the first groups to the Ninth group alert phone numbers Example: If you want to delete the first set of telephone alarm number,
【 3 】 + 【 1-9 】 + 【 # 】	Method one: After you press the # key to enter the configuration mode, press the 31#, then press * then press # to exit Setup. Method two: After entering the telephone remote setting status, press 31#

Password modification	Used to modify the user password, the default user password is 1234
	Example: If you want to set up a new user password 4321
Syntax: 【 50 】 + "Four digital new password" + 【 # 】	Method one: Press # key to enter the configuration mode, press the 504321#, press the * then press # to exit setup.
	Method two: After calling and connected to the panel from remote, press 504321#
Set delay for system arm	Upon armed from the remote control or alarm panel, the alarm panel is set to delay 0 － 99 before at the ready status of ARM. The system default is 00 seconds.
Syntax: 【 51 】 + 【 00-99 Second " + 【 # 】	Example: users need to set the delay time for 60 Seconds.
	Method one: Press # key to enter the configuration mode, press the 5160#, then * then press # to exit setup.
	Method two: After calling and connected to the panel from remote, press5160#
Set the time of delay for alarming	Set the time of delay upon alarm, it can be set to 0-99 seconds; the system default is 00 seconds.
Syntax: 【 52 】 + 【 00-99 Second 】 + 【 # 】	Example: the user needs to set the alarm delay time to 60 Seconds.
	Method one: Press # Key to enter the configuration mode, press the 5260#, and * then press # to exit setup.
	Method two: After calling and connected to the panel from remote, press 5260#.

Set length of Siren sound	Set alarm length of sounding when panel when the alarm, could be set to 0-20 minutes, factory default is 1 minute.
Syntax: 【 53 】 + 【 00-20 Minute " + 【 # 】	Example: you want to make a siren sound 5 Minutes. Method one: # Key to enter the configuration mode, press the 5305#, Then press # To exit Setup. Method two: After calling and connected to the panel from remote, press 5305#.
Set the scope of control of alarm panel and remote control	Set which defense zone will be controlled by remote control and from alarm panel keyboard. Factory default is all remote control and keyboard can control all 00-99 zones. Remark:
Syntax: 【 54 】 + 【 Remote control number 00~99 】 + 【 Starting defense area 00~99 】 + 【 End of defense zone 00~99 】 + 【 # 】	The 1st remote control represented by number 01, ** represents the alarm panel keyboard. Example: you want to set 01 remote control to control only 00-20 zone. Method one: # Key to enter the configuration mode, press 54010020# Method two: After calling and connected to the panel from remote, press 54010020# Example: you want to set the alarm panel keyboard control 00-50 Defense zone. * Then press # To exit Setup. Method two: After calling and connected to the panel from remote, press 54**0050#
Set audible confirmation for remote control operation	1 means on and 0 means closed, the default is on. Example: set panel without sound when remote control number 01 is sending signal. Method one:
Syntax: 【 55 】 + 【 Remote control number 00~99 】 + 【 0/1 】 + 【 # 】	Pressing # to entering the setup, and then press55010#, * then press # to exit setup. Method two: After calling and connected to the panel from remote, press 55010#.
Set date and time settings	Set the system date and time An example: it is now 1st of July of 2011 9 ： 00 ： 00 am
Syntax: 【56】 + "4-digits year" + 【01-12 The Month】 + 【01-31 Day】 + 【00-23 Hour】 + 【 00-60 minutes 】 + 【 00-59 Second " + 【 # 】	Method one: # to enter the configuration mode, press the 5620110701090000# , * then press # to exit Setup. Method two: After calling and connected to the panel from remote, press 5620110701090000#.

Scheduled arm and disarm time setting	To set the time for scheduled arm and disarm, it allows set at most four group of time for arm and disarm.
Syntax: 【 57 】 + Group number 【 01~04 】 + 【 AAAA Scheduled time of arm 】 + 【 BBBB Scheduled disarmed time 】 + 【 Number week 】 + 【 # 】	Example: set up the first group scheduled time to arm at 22：00 pm and disarm at 07： 00 am, this is valid for Monday, Tuesday, Wednesday, Thursday and Friday of each week. Method one: # enter the configuration mode, and then press 57012200070012345# Example: set up the second group scheduled time to arm at 12： 00 and disarm at 13： 00 pm, this is valid for all 7 days of each week. Method one: # enter the configuration mode, and then press 5702120013001234567#, * then press # to exit Setup. Method two: After calling and connected to the panel from remote, press57012200070012345#,then press5702120013001234567#.
Scheduled arm and disarm zones settings	Used to set when the four group of zone to be controlled by scheduled arm and disarm Example: To set up the first group scheduled arm and disarm control 00-50 defense zone. Method one: Press # enter the setup status and press 58010050#, * then press # exit Setup Method two: After calling and connected to the panel from remote, press 58010050#
Syntax: 【 58 】 + 【Group number 01~04 】 + 【 00-99 Defense zone begin the area code 】 + 【 00-99 Defense zone ends area code 】 + 【 # 】	Used to set when the four group of zone to be controlled by scheduled arm and disarm Example: To set up the first group scheduled arm and disarm control 00-50 defense zone. Method one: Press # enter the setup status and press 58010050#, * then press # exit Setup Method two: After calling and connected to the panel from remote, press 58010050#

Set the type of defense zone	To set 99 zone type, 00-99 represents 0-99 zone number, 1-8 represents one of the 8 zone type:
Syntax: 【 60 】 + 【 00-99 zone number 】 + 【 1-8 Type 】 + 【 0/1 】 + 【 # 】	1. NORMAL 2. STAY ARM 3. INTELLIGENT 4. EMERGENCY 5. CLOSED 6. CHIME 7. WELCOME 8. HELP SENIOR The last 0/1 represents 0 siren of panel produce no sound upon alarming while 1 is sounded. Example: Set zone number 2 as STAY zone type, and siren not sound upon alarming. Method one: # Key enters the configuration mode, press 600220#, * Then press # To exit Setup. Method two: After calling and connected to the panel from remote, press 600220#
Set mode of wired alarm zone	Set wired alarm zone to NO or NC. The zone numbers of 51-54 are wired defense zones, system default is 51-54 are wired zones with NO mode. 0 means NO and 1 means NC
Syntax: 【 61 】 + 【 zone number 51-54 】 + 【0/1 】 + 【# 】	Example: Set 51 zone to NC, Method one: # Key enters the configuration mode, press 61511# * Then press # to exit Setup. Method two: After calling and connected to the panel from remote, press 61511# Remark: On the back pane of the alarm panel 51 = zone 1 and labeled Z1 52 = zone 2 and labeled Z2 53 = zone 3 and labeled Z3 54 = zone 4 and labeled Z4

Set Remote Operation on or off	This enables or disables the remote operation of alarm panel using telephone. System default is on.
Syntax: 【62 】+ 【0/1 】+ 【# 】	Example: turn off the remote setting function, Method one: #, and then press 620#, * then press # To exit Setup. Method two: After calling and connected to the panel from remote, press 620#
Assign specific phone number to certain zone	System default is all 00-99 defense zone will make call from the first to sixth group phone number upon alarming. Example: user needs 00-10 to call the first, second, third set of numbers.
Syntax: 【 63 】 + 【 00-99 Defense zone begin the area code 】 + 【 00-99 Defense zone ends area code 】 + 【 Police group number 123456 】+ 【 # 】	Method one: # , and then press 630010123# Method two: After calling and connected to the panel from remote, press 630010123# Example: users need to 11-20 zone alarm the fourth, the fifth and the sixth group number. Method one: # , And then press631120456# Method two: After calling and connected to the panel from remote, press 631120456# Example: User wants zone 21 calls only the 5th group number. Method one: # And then press6321215 #. Method two: After calling and connected to the panel from remote, press 6321215#.
Set audible confirmation from panel to on or off	Alarm panel will produce audible confirmation beep upon receipt of signal from remote control. 1 is on, 0 is off, and default is on.
Syntax: 【 11 】 + 【 0/1 】 + 【 # 】	Example: users need to disable the audible confirmation. Method one: # then press 110# , press the * then press # Exit Setup Method two: After calling and connected to the panel from remote, press 110#

Enable or disable of the anti-tampering of telephone cord	Cut the phone cord will trigger the alert. 0 is off and 1 on, system defaults to closed.
Syntax: 【 13 】 + 【 0/1 】 + 【 # 】	Example: user need to enable anti-tampering of telephone cord feature Method one: Press # Then press 131#, * then press # to exit Setup Method two: After calling and connected to the panel from remote, press 131#
Siren volume adjustment	Valid value is from 00 to 99 as largest, system default is the largest.
Syntax: 【 14 】 + 【 00-99 】 + 【 # 】	Example: users need to set volume to 50 。 Method one: #, and then press 1450#, press the * then press # Exit Setup Method two: After calling and connected to the panel from remote, press 1450#
Forced disarm from panel keyboard	Upon alarming, enforced to use only the panel keyboard to disarm (remote control is not allowed) for extra security. 1 is on and 0 is off, the system default is off
Syntax: 【 15 】 + 【 0/1 】 + 【 # 】	Example: user needs to enforce to use keyboard. Method one: #, and then 151#, press the * then press # Exit Setup Method two: After calling and connected to the panel from remote, press 151#

Turn on or off Interference Alert Syntax: 【 16 】 + 【 0/1 】 + 【 # 】	This set the alarm panel to sound for 5 seconds upon a kind of malicious attach from un-authorized remote control or transmitter of same frequency, meanwhile, the alarm panel will display tP warning. Example: users need enable interference alert Method one: # , and then press 161# , press the * then press # Exit Setup Method two: After calling and connected to the panel from remote, press 161#
Keyboard password protection feature Syntax: 【 17 】 + 【 0/1 】 + 【 # 】	To enable the password protect of keyboard. System default password is 1234, defaults set to off. Alarm panels will display "keyboard locked" when keyboard is locked Example: keyboard users need to set the password protection. Method one: # , and then press 171# , press the * then press # Exit Setup Method two: After calling and connected to the panel from remote, press 171#
Set number of ring tones before picking up Syntax: 【 18 】 + 【 00 － 99 】 + 【 # 】	The system default is 8. 0 means the remote operation is not allowed and disabled Example: the user needs to set up a number of rings before picking up to 6. Method one: # , and then press 1806# Example: the user needs to set off the remote number ring. Method one: # , and then press 1800# , press the * then press # Exit Setup Method two: After calling and connected to the panel from remote, press 1806# ,or press 1800#
Restore factory setting Syntax: 【 9898 】 + 【 # 】	System restore factory setting Method one: # , and then press 9898# Method two: After calling and connected to the panel from remote, press9898# Remark: This feature will restore all settings to factory default apart from the configuration of sensors and remote control.
Total System Reset Syntax: Press and hold the ARM button on the keyboard and power on.	Disconnect power to the alarm panel, turned off the battery switch alarm panel, then press and hold the alarm panel of ARM button while power-on. The system will respond with short "beep" slowly for 5 seconds, then can release ARM button. The system is now totally reset. All configurations have been cleared, all sensors and remote controlled are deleted and password is restored to original 1234.

4.2 Commands of System Enquiries

Press Query button on panel to enter the query mode, alarm panel status LED is blinking. Then put in commands as detailed in table below, when finished, Press *, and then press #, to exit the query mode.

Note: In case keyboard password protection is enabled, please enter the password to unlock before other commands.

Query for voice alarm phone number Syntax: 3+【 1-9 】 + 【 # 】	To query the alarm panel currently saved to the first set to the Ninth group voice alarm phone number. Press alarm panel query key of your keyboard, then blinking status LED on the Panel, and then press 31#, the alarm panel LCD show 13812345678 means alarm panel's first set of alarm numbers are13812345678
Query password Syntax: 50 + 【 # 】	Used to query the current password of the alarm panel, Press alarm panel query key of your keyboard, then blinking status LED on and then press 50#, the alarm panel LCD show 1234. Alarm panel your current password is 1234. Press # to clear the screen, press * then press # to exit the query mode.
Query the time for delay arm Syntax: 51 + 【 # 】	Query delay time for arm (00-99) Seconds Press alarm panel query key of your keyboard, then blinking status LED on and then press 51#, the alarm panel LCD show 00 mean time for delay is 0 second.
Query delay time for alarming Syntax: 52+ 【 # 】	To query the alarm delay time (00-99) Seconds Press alarm panel query key of your keyboard, then blinking status LED on and then press 52#, the alarm panel LCD show 00 mean time for delay is 0 second.
Query siren sounding time for alarming Syntax: 53+ 【 # 】	To query the siren sounding time (00-20) minutes when the alarming. Press alarm panel query key of your keyboard, then blinking status LED on and then press 53#, the alarm panel LCD show 01 mean time for delay is 1 minute.
Query remote control and keyboard assignments to zone	For query of specific remote control and keyboard assignments to zone 00-99 Press alarm panel query key of your keyboard, then

Syntax: 54+【 00-99 】 + 【 # 】	blinking status LED on and then press 5401#, the alarm panel LCD show 00-99 and remote control 1 means remote control 1 is controlling zone 00-99, press # clear screen, using 5402# for query remote control 2 and so on.
Query remote control audible confirmation	For query the setting of remote control 00-99 for the audible confirmation to command.
Syntax: 55+【 00-99 】 + 【 # 】	Press alarm panel query key of your keyboard, then blinking status LED on and then press 5501#, the alarm panel LCD show ON means remote control 1 is set to sound upon receipt of command.
Query the scheduled time for arm and disarm	Used to query first to fourth set of scheduled time for arm and disarm.
Syntax: 57+【 01 － 04 】 + 【 # 】	Press alarm panel query key of your keyboard, then blinking status LED on and then press 5701# to query the first of scheduled arm and disarm, the alarm panel LCD show " Monday, Tuesday, 22-00 07-00" means schedule set as Monday and Tuesday 22:00 pm arm and 07:00 am disarm.
Query the zone number with scheduled arm and disarm	For query the first to the fourth group scheduled arm and disarm.
Syntax: 58+【 01 － 04 】 + 【 # 】	Press alarm panel query key of your keyboard, then blinking status LED on and then press 5801# for zones with the first group of phone zone, the alarm panel LCD show "00-99" means 0-99 zone are with 1st phone number group.
Query type wireless defense zone	For query the zone types of 00-99.
Syntax: 60+【 00 － 99 】 + 【 # 】	The alarm panel LCD show the name of type of zone, detail about zone types can be referred to another section of manual, the word "ON" or "OFF" next to the zone type represents whether siren will sound upon alarming.
Query the type of wired zones	For query the zone type of 51-54.
Syntax: 61+【 51 － 54 】 + 【 # 】	Example: Press alarm panel query key of your keyboard, then blinking status LED on and then press 6151# to query 51 zone alarm type, show NO means short-circuit to alarm while show NC means open circuit to alarm.
Query remote operation on/off	To query if the remote operation is allowed, it should show either ON or OFF.
Syntax: 62+【 # 】	
Query phone number for specific zone	To query the phone number assigned to zone 00-99 for alert.

Syntax: 63+【 00 － 99 】+ 【 # 】	Example: Press alarm panel query key of your keyboard, then blinking status LED on and then press 6301# for zone 1, the alarm panel LCD show 123456 means these 6 group of phone numbers are assigned to 01 zone.
Query for the setting of alarm audible confirmation	For query whether the alarm will play audible confirmation upon receipt of commands. It shows either ON or OFF.
Syntax: 11+【 # 】	
Query the setting of anti-tampering of telephone line	For query whether the anti-tampering of telephone line is set, it shows either ON or OFF.
Syntax: 13+【 # 】	
Query sound volume of siren	Query for the volume level of siren, it shows between 00-99 representing the 00 as lowest and 99 as highest volume.
Syntax: 14+【 # 】	
Query for the setting of enforced keyboard disarm	To query whether enforcing the disarm from keyboard upon alarming. It shows either ON or OFF.
Syntax: 15+【 # 】	
Query of the setting of interference alert	To query whether interference alert is set, it shows either ON or OFF.
Syntax: 16+【 # 】	
Query keyboard password protection	To query if the password protection feature is enabled, it shows either ON or OFF.
Syntax: 17+【 # 】	
Query of number of rings before panel pick-up incoming call	To query the number of ringing before the panel will pick up incoming calls from remote. Example: Press alarm panel query key of your keyboard, then blinking status LED on and then press 18#, it shows 08 means 8 rings, 11 means 11 rings and so forth.
Syntax: 18+【 # 】	
Query alarm panel arm/disarm records	The system can save up to the most recent 72 disarmed records.

Syntax: 9901+【 # 】	Press alarm panel query key of your keyboard, then blinking status LED on and then press 9901#, press 8 to scroll up and 0 to scroll down for records. Other indications as: JP = arm/disarm from keyboard YC = arm/disarm from remote tP = interference alert 01 = remote control number 1
Query alarm panel alarming records	The system can save up to the most recent 102 alarming records.
Syntax: 9900+【 # 】	Press alarm panel query key of your keyboard, then blinking status LED on and then press 9900#, press 8 to scroll up and 0 to scroll down for records. Example: Screen shows 01-01 22-02 02 alarm, which means alarm happened on 1st January 22:02pm at zone 2.

5   Types of Alarm Zone

5.1 Definitions of Zones

The alarm supports 99 distinguishable defense zones and they can be classified into one of the 8 Zone Types with their respective characteristics.

Type ID	Zone Type	Interpretation
1	NORMAL Defense Zone	The Panel only works on the arming status. When disarming, there is no response.
2	STAY Defense zone (AT-HOME Defense zone)	Can be shut off solely through the remote control (Keypad) to avoid the Infrared Detectors and other in-room detectors from misinformation when master is resting at home.
3	INTELLIGENT Defense zone:	If the detector in the Defense zone is triggered only once, it will not immediately alarm. But if being triggered once again within 30 seconds after the first triggering, it will not alarm immediately.
4	EMERGENCY Defense zone:	No matter on arming or disarming status, if detector is triggered it will alert. Usually used in connecting with Smoke Detectors, Gas Detectors and emergency button, etc.
5	CLOSED Defense zone:	No matter arming or disarming status, detectors will not alert even being triggered.

6	CHIME Zone	No matter in what status, when sensor with this zone is triggered, a welcome door bell will be ring as notification.
7	WELCOME Zone	On disarming status, when sensor with this zone is triggered, a welcome voice message will be played.
8	HELP SENIOR Defense Zone	This type of zone is for elderly safety, no matter in what status, the panel will alarm once sensor with this zone type is triggered.

5.2 System default zone types are:

Normal	Stay	Intelligent	Help Senior	Chime	Welcome	Emergency
01-59	60-79	80-89	90	91	92	93-99

5.3 Fitting parameters:

- Input voltage: DC9V-12V
- Standby currents: < 25mA
- Alarm current: < 450 mA
  - ■ Wireless frequency: 433MHZ , 2262/1.5-4.7M , EV1527/300K
  - ■ Backup battery: NI-HI AAA*6 DC7.24V
  - ■ Alarm loudness: 110dB
- Detailed parameters: The alarm should be compatible with PT2262, PT2240 and EV1527. Using PT2262 encoding, the resistance is recommended 1.5M-4.7M; using with EV1527 encoding, the resistance by 180K-470K. It is advised to place jumpers randomly at A0-A7 for addressing of individual sensor, better not to let them totally empty for security.

6　Guideline of Installation Sensors

6.　1　Guideline for Installing Door or Window Sensor

1. The surface for door sensor installation should be clean so door sensor can be attached to the door and frame firmly with double faced adhesive.
2. Each door sensor is a pair of sensor and magnet. The sensor (A as in diagram) should be installed on the fixed door frame and the magnet (B as in diagram) should be placed on the movable door with a distance not exceeding 1 cm.
3. Upon installed, door sensor should be tested by open the door and check if the indicator on door sensor flashes for 1 second.
4. In case the door sensor is running out of battery, the indicator should be kept lit as a low-voltage notification.

6.2　Guideline for Installing PIR Motion Sensor
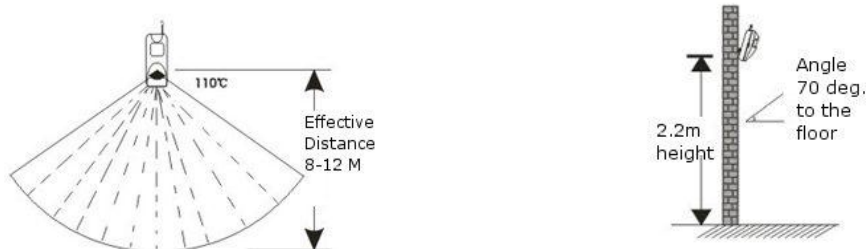
1. Before use, make sure the power switch of PIR motion sensors is at the ON position.
2. Installation height is about 2.2 meters above ground and the optimized detection angle for most motion sensor is 90 degree. The sensor should face the detected area with this consideration for best coverage. It is advised to install with the face of motion sensor perpendicular to the most probable moving detection of people for the highest effective detection.

3. Within coverage of detection, there should be no any objects for obstruction.
4. There should be no two infrared detectors in the same as they will possibly intervene with each other.
5. Avoid the detector facing window, cooling or warming machines, or other appliances that cause the temperature changing sharply and thus cause false alarm.
6. Most infra-red detector needs about 5 minutes to heat up before READY for normal operation.
7. Regular PIR motion sensor is for indoor use unless the specification stated otherwise.

Unless specifies otherwise, most infra-red detector are indoor use and not reliable to use outdoor.

7. Troubleshooting

Problem	Diagnosis	Available Solutions
1. cannot dial for alarm	• no arming • alerting phone unsettled • parts improperly installed e.g. sensors installed too far away • code no match	• do arming operation • re-set according to the specification • coordinating the location of parts • re-coding
2. cannot long-distance operation	• password input wrongly	• Retype Password or reset password
3. no record indication when alerting	• voice message not recorded	• record voice message
4. remote control (keyboard) out of order	• coding un-matched with the Panel • insufficient battery power or battery contact no good • battery pieces poor contact or voltage un-matched with Panel	• re-learn the remote control • change battery to correct type • polish the surface of contact of battery • contact the local dealer to change the matched remote control (keyfob)
5. infrared detector out of order	• low power	• change to the same type battery
6. Beam detector out of order	• Check power supply • Check if cables short circuit. • Check beam detector alignment	• Replaced with a working power adapter • Re-cabling for perfect contact • Make sure pair of sensors aligned by observing the indicators.

7. siren without sound	- siren plug or jack in short circuit or broken-line - siren out of order - closed siren by command - positive and ground wires of siren reversed	- repair or change plug or jack or change the jack line - use another siren to double check - activate siren by command - reverse the wires to try adjust a longer length of siren sounding
8. the transmission distance of detector to panel shorten	- a nearby emitter is sending code - Panel receiver stoppage - standby battery of the Panel insufficient	- move one detector next to panel and try - identify the interfering source and eliminate it - check Panel power whether plugged well
9. Alarm triggered continuously right after power up	Phone cord is not connected but the phone alert function is enabled	Either disable the phone alert function or connect the phone cord