BURGLAR ALARM CONTROL UNIT
INSTALLATION MANUAL

DSW®
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NINGBO DSW INTERNATIONAL CO., LTD

INSTALLATION INFORMATION

User	
User address	
Installer	
Installation company	
Installation date	
Tel of installation company	
Fax of installation company	
Alarm center	
Address of alarm center	
Tel of alarm center	
Tel of the control panel	

CONTAINER LOADING LIST

The components of the product are packed in a box as followed. Open the box and check it carefully. If finding deficiency, please fetch the provider in time.

NO.	Name	Amount
1	Control panel	1
2	Remote Controller	2
3	Wireless Passive Infrared Detector	1
4	Wireless Magnetic Switch	1
5	Power adapter	1
6	Installation manual	1
7	Attachment bag	1

Note: There are four line resistors(2.2k)four screws and expand tube.

Appendix2 Zone type setting figure

Wireless zone

Zone number	Installation position	Type	Bypass or not
1			
2			
3			
4			
5			
6			
7			
8			
9			
10			
11			
12			
14			
15			
16			

Wired zone

Zone number	Installation position	Type	Bypass or not
21			
22			
23			
24			

No.	Setting item	Keypad operation	Parameter / Select	Default
17	Timed auto-arm time setting	→35→X→Y→#	X=1~3(NO.X auto-arm time) Y= hour minute(4 digits)	Y=88 88
18	Timed auto-disarm time setting	→36→X→Y→#	X=1~3(NO. X auto-disarm time) Y=hour minute(4 digits)	Y=88 88
19	Zone types setting	→40→X→Y→#	X=01~16(16 Wireless zones) X=21~24(4 Wired zones) Type code Y=1~8	Refer to system setting
20	Enroll wireless zone detector	→61→ X→ #	X=01~16(NO. X wireless zone detector)	
21	Wireless zone detector canceling	→62→ X→ #	X=01~16(NO. X wireless zone detector)	
22	Enroll wireless remote controller	→63→ X→ #	X=1~5(NO. X wireless remote controller)	
23	Wireless remote controller canceling	→64→ X→ #	X=1~5(NO. X wireless remote controller	
24	Zone bypass	→65→ X→ #	X=01~16(16 wireless zones) X=21~24 (4 wired zones) X=17 (panic zone) X=30(conrtol panel anti-tamper zone)	No bypass except wired zones
25	Zone bypass canceling	→66→ X→ #	Ditto	
26	Sound recording	→70→ 0→ #	Record user address	
27	Record playing	→71→ X→ #	X=1~8 play alarm type, X=9 play user address	
28	NO. 1~40 event records reading	→80→ X→ #	X=01~40, read 1~40 records	
29	Software version number inquiring	→88→ X→ #	X=1 inquire U1 software version number X=2 inquire U201 software version number X=3 inquire U402 software version number	
30	All zones bypassed	→910→ X→ #		
31	All zones bypassed canceling	→920→ X→ #		
32	All wireless zone detectors canceling	→930→ X→ #		
33	All wireless remote controllers canceling	→940→ X→ #		
34	Zone type initialization	→950→ X→ #		
35	System default restoring	→960→ X→ #		

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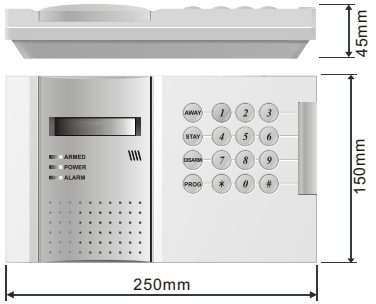
6. Dimension: 250×150×45mm



Appendix1 Parameter setting

No.	Setting item	Keypad operation	Parameter / Select	Default
1	Alarm telephone number setting	→11→ X→Y→#	No.X(X=1~6) alarm telephone number Y=1~15 digits telephone number	Null
2	User address code setting	→20→X →#	X is the 4 digits user address code	1234
3	User password modification	→21→X→#	X is the 4 digits new user password	1234
4	Operation password modification	→22→X→#	X=1~5 (NO. X operation password) Y is the 4 digits new operation password	Null
5	Ringing attempts adjustment	→23→X→#	X=1~9times(X=0 indicating no telephone remote control and no automatically receiving the telephone)	X=6
6	Bell ON/OFF setting	→24→X→#	X=1: ON, X=0: OFF	X=1
7	Timed auto-arm / auto-disarm option.	→25→X→#	X=1: Valid,X=0: Invalid	X=0
8	Telephone line checking option	→26→X→#	X=1: ON, X=0: OFF	X=1
9	Protocol option	→27→X→#	X=0:ContactID, X=1:4+1	X=0
10	Relay output type setting	→28→X→#	X=1:Alarm output X=2:Fire alarm output X=3:Arm output	X=2
11	Bell and buzzer chip time adjustment	→29→X→#	X=00～30 the delay time are 0~30minutes	X=10, 10minutes
12	Exit delay time adjustment	→30→X→#	X=00～30 the delay time are 0~300seconds	X=10, 100seconds
13	Entry delay time adjustment.	→31→X→#	X=00～30 the delay time are 0~300seconds	X=04, 40seconds
14	Year setting	→32→X→#	X=year (2digits)	X=00
15	Date setting	→33→X→#	X=month date(4 digits)	X=0101
16	Hour and minute setting	→34→X→#	X= hour minute(4 digits)	X=0000

Types of fault	Potential reasons	Solutions
The system has no feedback when zone is touched.	The zone is bypassed	Cancel bypass of the zone.
	When disarm, zone 1,2,3 do not alarm; arm-stay zone 2 does not alarm.	Operate normally
Timed auto-arm/auto-disarm invalidation	Timed arm/disarm is not set in valid statue	Set timed arm/disarm in valid status
	Arm/disarm with the same time	Reset the arm/disarm time
	Can't disarm when emergency happens or the system is in enter-delay status	Refer to Timed auto-arm/auto-disarm
Wireless zone misinformation	Different wireless zones use the same code learn	Cancel this wireless zone change the code learn and try again

14. Technical parameter

14.1 General data

1. Requirement of wired zone: connect to 2.2K resistance
2. Control device:
   - Wireless remote controller
   - Keypad
   - Local or remote telephone system
3. Wireless frequency: 315MHz/ 433MHz/868 MHz(optional)
4. Received range of the detector: ⩾90m (in open space)
5. Effective range of the remote controller: ⩾50m (in open space)
6. Length of recording: 4 seconds
7. Dialing mode of alarm: DTMF
8. Relay output parameter:
   - Contact capacity：10VA
   - Contact biggest voltage：100VDC
   - Contact biggest current：0.5A

14.2 Other data

1. Power adapter working voltage: 100V ～ 240V AC
2. Operating voltage of the control panel: 12VDC
3. Static operating current: ⩽130mA
4. Bell output current: ⩽400mA
5. Operating temperature: -10℃～+55℃

1. General

This is a new kind of intelligent security product .It transmits alarm information via telephone communication network and is remotely controlled to deal with emergencies in time, ensuring user's personal and property safety. This product has complete functions, flexible configuration; strong destroy protection and convenient operations, being suitable for residences, stores, factories, warehouses, banks, schools and hospitals, etc.

2. Main functions and features

- Connect 16 programmable wireless zones and 4 programmable wired zones, compatible with wired/wireless detector.
- LCD displays in English.
- Compatible with communication protocol: ADEMCO 4+1 and Contact ID, it is capable of alarming in network or in personal telephone alone.
- Automatically dial alarm center user cell phone or fixed telephone with sound alarm while emergencies happen.
- Six alarm received telephones: 1 in alarm center and 5 common telephones.
- Seven passwords: 1user password, 1duress password, 5 operation passwords.
- Wireless code learn.
- Arm & disarm by 5 wireless remote controllers at most.
- Armed or disarmed by Wireless remote controller telephone or keypad.
- Several alarm modes: alarm bell and sound alarm.
- Three groups timed auto arm/disarm time.
- Zone valid/bypass optional, user can set alarm area type as desired.
- Restore user password to factory default by hardware and restore the system factory default by software.
- Record 40 latest alarm events.
- Malfunction alarm: AC power loss, battery low voltage and telephone line loss.
- Set real-time clock inside.
- Auto-recording function, record the address of the alarm and other information.
- Programmable relay output.
- Anti-tamper function of the control panel.
- Field monitor function

3.Term definition

Detector: A facility that detects intrusion and abnormal state automatically via some electric or physical methods and output switch signals or wireless signals to the system for disposal, then sends out alarm signals, such as infrared detector, smoke detector, etc.

Zone: An area within the detection range of one or one ground detectors.

Bypass: Close one of the zones temporarily, so that it can not alarm while act in the zone.

Arm-away: The armed status while going out. All the zones without bypass are in armed status.

Arm-stay: The armed status at night. All the zones are in armed status except active zones.

Disarm: Cancel the alarm information that has happened. Close the entry/exit zones, active zones, perimeter zones. Other zones are still in arm status.

24-hour zone: No matter armed or disarmed, it is in valid detecting status. It is usually used in fire alarm, duress alarm and other emergent alarm which can be cancelled only by password holder.

Alarm center: It is an alarm receiving station, to which the alarm controller sends out alarm information via telephone line when emergencies happen. The station will take corresponding actions after receiving the alarm.

Entry delay: A period for user to enter detection area, activate the delay zone and disarm before the system alarms. During the period, user can activate several specified zones (entry zone) without alarm immediately. While exceeding the time, the system alarms if not disarmed. Zones with entry delay are the exit/enter zone and active zone.

Exit delay: A period for user to leave detecting area once the system armed. Zones with exit delay will not alarm during this period. The zones with exit delay are the exit/enter zone and the active zone.

User address code: 4 digits code used to be distinguished by the alarm center when the control panel with network alarms.

Duress password: When user is forced to disarm the control panel by burglar, user inputs duress password, the control panel is disarmed but sends alarm information to the alarm center or receiver. The duress password can be used to disarm but set parameters. The duress password is the last digit of user password plus 1 without carry (9+1=0). E.g. while user password is 8889, the duress password is 8880; while user password is 9999, the duress password is 9990.

12. Limitations of the system

Although it is an advanced design security system, it does not offer guaranteed protection against burglary, fire, or other losses. Any alarm system, whether commercial or residential, is subject to compromise or failure-to-warn for a variety of reasons. These include:

1. Intruders may gain access through unprotected openings or have technical sophistication to invalidate the system.

2. Most detectors can not operate without power, so if AC power loss and backup power is void, the alarm system can not work.

3. Alarm warning devices such as bells may not alert people if they are installed in an improper position. If the alarm bell is installed outside, there are less likely to waken or alert people inside the bedrooms.

4. Telephone line used to transmit alarm signals may be out of service for any reason, or can not perform communication normally for vicious attack.

5. Unsuitable installation position of detectors. If smoke detector is installed in an improper position, it is not easy for smoke to enter the detecting area. Because of doors or walls, it is hard

for the detector to sense fires in other rooms, e.g. the detector in the first floor can not sense fires in the second floor.

6. Lack of maintenance may lead to the system disabled. Weekly testing is required to ensure proper operation of the system.

13. Troubleshooting

Types of fault	Potential reasons	Solutions
The system does not dial to alarm when alarm happens	Do not set correct telephone number	Set correct telephone number
	User telephone is busy during alarm	Set more than two telephone numbers
Telephone cannot work normally as the system is connected into telephone network.	Few ringing attempts lead the system to hang up the phone automatically	Increase ringing attempts. Refer to ringing attempts adjustment
Remote controller can not operate the system	Battery is drained	Replace it with a new battery
	Enroll wireless remote controller without programming	Enroll wireless remote controller with programming
	Wireless remote controller is too far from the controller or blocked by obstacles.	Adjust the distance or angle between the system and wireless remote controller
Wireless zones can not monitor normally.	Do not enroll wireless detector or the detector is removed	Enroll the detector again
The indicator of power on keypad does not work.	The control panel plug is not inserted in AC socket, or it is not connected well	Check the connection of the plug or replace the socket.

11. Control Panel Communication Code

Communication between central panel and alarm center have two formats ADEMCO 4+1 and ADEMCO Contact ID.

ADEMCO 4+1 Table of event codes NO. Identification

No.	DEFINITION
1	Fire alarm, including fire alarm gas and panic zone
2	Plunder alarm, duress zone
3	Rob alarm, Entry/Exit/Active/ Perimeter/Anti-tamper zone
4	Disarm
5	Arm
6	AC power loss
7	Battery low-voltage
8	Restore default

ADEMCO Contact ID OPERATION OF USER ARM/DISARM Number

00	Operation of using keypad without password such as arm-away disarm and arm-stay
01	User password to arm/disarm, by using keypad or remote telephone operation
02	Corresponding operation password to arm/disarm by using keypad or remote telephone operation
11～15	Wireless remote controller arm/disarm
21～25	Alarm for disarm/arm operation by using telephone number from 2 to 6
98	Using duress password to disarm, press 98 to send adisarm information before duress alarm information
99	Timed auto-arm/auto-disarm

ADEMCO Contact ID TABLE OF EVENT CODES

No.	DEFINITION
100	Panic zone alarm
110	Fire zone alarm
121	Duress code, Duress zone alarm
131	Perimeter zone alarm
132	Active zone alarm
134	Entry/Exit zone alarm
137	Control panel anti-tamper alarm. Anti-tamper zone alarm
151	Gas zone alarm
301	AC power loss
302	Battery low-voltage
401	Arm/Disarm operation
441	Arm-stay operation
455	Auto-arm/disarm failing
521	Bell canceling function
570	Zone bypass operation, zone/user is 99 represent all zones bypassed or all zones bypass canceling

4. Notice before using

- Please set 110 as alarm phone number in the control panel with the police's approval. Read the manual carefully before using.
- Connect the AC power supply after ensuring the system is installed correctly.
- Please use backup power to ensure the control panel can work normally when electric network fails.
- Do not disassemble the control panel and detector frequently.
- If the user has any problem while using, call our company for help.

5. System installation

5.1 Requirements of engineering installation

- Work out a protection scheme based on user protection zone requirements, then decide the type and rating of the detector.
- Confirm the installation position and wiring direction according to the specific environment. Make sure the position invisible without affecting its reliability. It is better to wire in concealed way.
- The construction scheme and engineering drawings must be filed for maintenance late.

5.2 Inner wiring

Open the case of the control panel

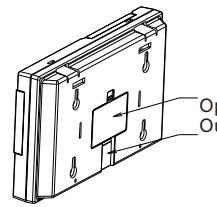


Figure 1

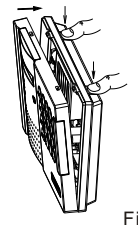


Figure 2

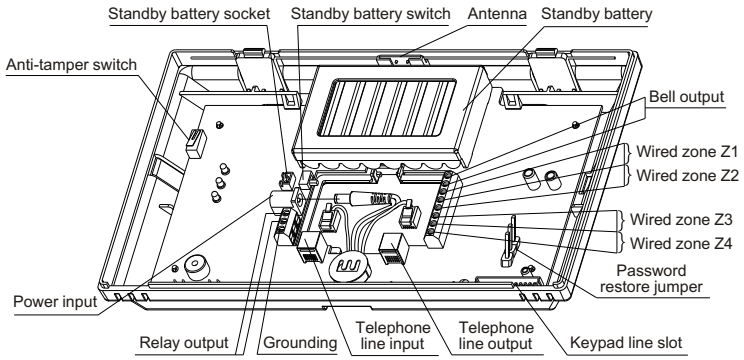


Figure 3 Control panel inside

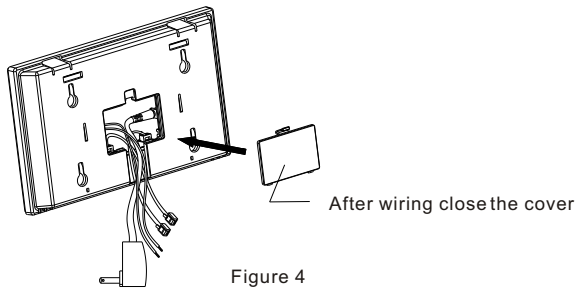


Figure 4

5.2.1 Power connection

- Power Adoption: Input 100V~240VAC 50/60Hz 0.3A, output 12VDC 1A put the output plug in the power input socket. (Refer to the figure 3)
- The control panel with 7.2V/1800mAh NH rechargeable battery as standby power, put the power cord with plug in the standby battery socket, turn the standby battery switch KP1 on (Refer to the figure 3) In working status and the battery is well charged, it can supply the system with power more than 14 hours, when the battery is low-voltage, it supply the system with power more than 1.5 hours. If standby battery is low-voltage and AC power is restored, the system will charge the standby battery.
- When standby battery is low-voltage, power indicator flashes fast, when AC power is low-voltage, power indicator flashes slow .When AC power and standby power is in working voltage, power indicator switched on .When standby or AC power is low- voltage buzzer chirps 1 minute. There is no cue when disarmed.

10.3 Telephone arm-stay

After picking up the telephone, press '# +4digits password(user password, operation password) + 2 + #' to arm, For example, if user password is 1234, press '#12342#'. When emergencies happen, user has to disarm first and then arm the system again.
When the control panel dials to alarm, user can press 3 to disarm and then press 2 to arm after hearing alarm sound.

10.4 Telephone field monitor

After picking up the telephone, press '# + 4digits password(user password, operation password) + 4 + #' to monitor on the spot. For example, if password is 1234, press'#12344#'. When the control panel dials to alarm, user can press 4 to monitor his/her house after hearing sounds. The control panel will not dial any other numbers.
The field monitor time is about 30 seconds, this status will be over after hearing the prompt sound 'Di', and user can operate continually in ten seconds.

10.5 Hearing present alarm type

After picking up the telephone, press '# + 4digits (user password, operation password) + 5 + #' to hear present alarm type. For example, if user password is 1234, press '#12345#'. The control panel will play the alarm sounds 5 times and pause 5 seconds among them. If no key is pressed, the system will hang up automatically. If no emergency happens, user can hear 'Di-' twice.
When the control panel dials to alarm, press 5 to hear alarm type. The system will play the alarm sound 5 times and pause 5 seconds among them. If no key is pressed, the system will hang up automatically.

10.6 Hang-up / stop alarm dialing

When the control panel dials to alarm, user presses '0' after hearing alarm sound, the control panel will hang up automatically and not dial any other numbers.
When dialing via phone, the system can use operation digit '0' to hang up automatically

For example, user password is 1234. To disarm the control panel, user can press '#1 2 34 3 #' after switching on the system. If the operations is correct, 'Di' will be heard once. If the operations is incorrect, 'Di' will be heard twice. If password is wrong, user can input password and operate digit again without inputting '#' in advance. The control panel will hang up if password is input incorrectly three times or user does not press any key in 30 seconds during the operations.

When alarming, the control panel dial user telephone if there is no sound after receiving the telephone or user unwilling to wait, it is better to press any key (key '5' recommended), the control panel will send out sound immediately. First play is the user address record then the alarm type sound. After playing all of the alarm type sound there will be five second pause. The system will circulate play the alarm type sound. If user without press any keys to operate, after playing the sound for five times
the system will hang up automatically. User can operate the control panel by the key of telephone without input password and '#'. Input the operation digits directly. The prompt voice is like the above. If user press the operation digits（0，1，2，3，4）but not '5'', after this command is operated, the control panel will not dial any other telephones.

Note: Do not press any keys during sounds 'Di' because at the same time messages can not be received correctly. User had better not press any key when the system is in sound alarm status. When dialing the telephone number of control panel, user can operate continually after inputting password correctly. Just input operate digit and '#'.

10.1 Telephone disarm

After picking up the telephone press '# + 4digits password(user password, operation password) + 3 + #' to disarm, for example, if user password is 1234, press '#12343#'. When the control panel dials to alarm, user can press 3 to disarm after hearing alarm sound.

10.2 Telephone arm-away

After picking up the telephone, press '# +4digits password(user password, operation password) + 1 + #' to arm, When emergencies happen, user has to disarm first and then
arm the system again. For example, if user password is 1234, press '#12343#' and then press '1#' to arm after hearing prompt sounds. When the control panel dials to alarm, user can press 3 to disarm and then press 1 to arm after hearing alarm sound.

5.2.2 Bell output

- The biggest drive capacity of bell terminal (+BELL-) is 400mA/12VDC.
- Connect the two power lines of the bell to "BELL+" and "BELL-" terminals.
- When the system is powered up and initialized bell will chirp once, indicating it works normally .Setting the bell on/off and the chirping time with software.

5.2.3 Wired zone connection

Each loop is connected to an end-of-line (EOL) resistor. For different detectors, modes of connection are shown as followed:

- When connecting N.C. detector, connection

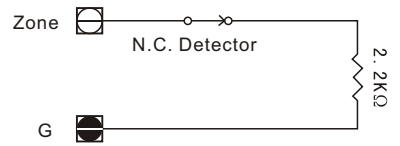


Figure 5 N.C. Detector

- When connecting N.O. detector, connection mode:

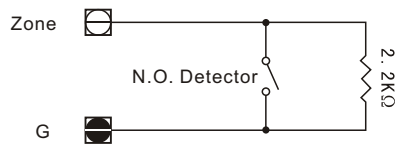


Figure 6 N.O. Detector

5.2.4Telephone line connection

- Connect telephone line to 'LINE_IN' interface of the control panel (Refer to the figure 3)
- Connect telephone or facsimile machine to 'LINE_OUT' interface of the controller panel, ensuring no effect on telephone. (Refer to the figure 3)
- Under the telephone line loss checking status, the control panel will alarm when the telephone line loss. "T" flashes once a second in lower right corner of LCD buzzer chirps for 1 minute. After disarmed buzzer off and "T" flashes on LCD.

5.2.5Relay output

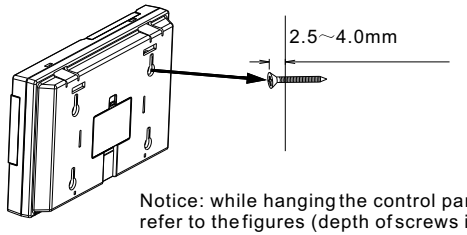
The biggest load capacity of relay terminal '⌐¬'

- Contact capacity：10VA
- Contact biggest voltage：100VDC
- Contact biggest current：0.5A

Relay output type can be set as required including alarm output fire alarm output and armed output. Please refer to program the system.

5.3 Control panel Installation

- The control panel should be mounted in a location which allows convenient access to AC power, telephone line.
- Control panel aerial can not be blocked by subject.
- Please use standby power to ensure the control panel can work normally when electric network fails.
- Fix the control panel to the wall by screws. Interval between screws in the same row is 140mm and vertical intervals between screws in two rows are 80mm. Nail 4 screws in the wall and hang the control panel on the screws. (Refer to the figures below.)



Notice: while hanging the control panel:
refer to the figures (depth of screws in the wall)

Figure 7

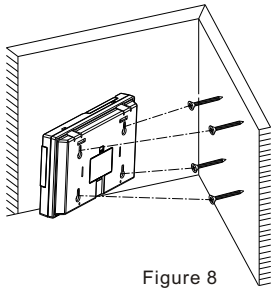


Figure 8

9.3.30 All zones bypassed — Enter: 910

Operations: (PROG→ user password→ #)→ 910 →#.

Functions: The system can provide a command to bypass all zones.

9.3.31All zones bypass canceling — Enter: 920

Operations: (PROG→ user password →#) →920 →#.

Functions: The system can provide a command to cancel all bypassed zones.

9.3.32 All wireless zone detectors canceling — Enter: 930

Operations: (PROG→ user password→ #)→ 930→ #.

Functions: After the operations, all wireless detectors are canceled; wireless zones have no effect on the system.

9.3.33 All wireless remote controllers canceling — Enter: 940

Operations: (PROG→ user password→#)→940→#.

Functions: After the operations, all wireless remote controllers are canceled; it can not perform the operations of arm away/stay, disarm and panic alarm etc.

9.3.34 Zone type initialization — Enter: 950

Operations: (PROG→ user password→ #)→ 950→ #.

Functions: After the operations, all zone types restore to defaults in factory setting.

9.3.35 System default restoring — Enter: 960

Operations: (PROG→ user password→#)→960→#.

Functions: After the operations, all parameters restore to default in factory setting .User password, operation password, user address code, telephone number and date can not be canceled by this operation.

10. Remote telephone operation

User can dial telephone number of the control panel perform the operations: arm away/stay, disarm field monitor and hearing alarm types. Dial telephone number of the control panel for more than ringing attempts set. The system will answer automatically and announce the user with a sound 'Di'. Then user presses '# + 4 digits password(user password operation password) + 1 operation digit + #, the control panel will operate corresponding commands. 6 operation digits, 1 means arm-away, 2 means arm-stay, 3 means disarm,4 means field monitor ,5 means hearing current alarm sounds,0 means hang-up / stop dialing to alarm.

commands successfully, alarm time, alarm type, corresponding zone type and zone number display on LDC. Press '6' key to turn up '9' key to turn down for continually inquiring. Flip requirement press '#' then press '80→ XX→ #' until the last inquiring finished.

For example: Inquire the No.5 event record input password→ 80→ 05→ #, LCD displays alarm time alarm zone and alarm type.

```
Year-Month-Day Hour: Minute
ZONE 17   Panic
```

Inquire the No.9 event rccord, press '#' first then input 80→ 09→ #. If the event record is null, LCD displays:

```
Program Fail!
```

9.3.29 Software version number inquiring Enter: 88 X

Operations: (PROG→user password→#)→88→#.

Parameters definition: X=1 inquire software version number U1

X=2 inquire software version number U201

X=3 inquire software version number U402

Function: When the system is in power supply status, if these three software version number of CPU are not identical, LCD displays 'Version vary' and buzzer beeps, cancel this alarm by disarm command. In this condition it is better to connect the provider in time. This operation can inquire the three CPU software versions number. For example: inquire software version number U1: (PROG→user password→#)→88→1→#.

```
The U1 CPU
 version V1.1
```

Indicate present U1 software version number is V1.1

6. Operation explanations

6.1 Control panel composition

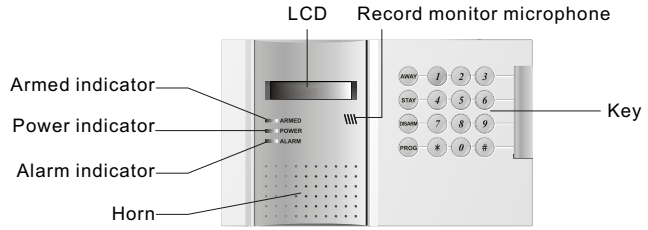


Figure 9

1. LCD:
   - ● Display real-time clock and arm/disarm status.
   - ● Display corresponding information and input digits while setting.
   - ● Display corresponding zone number and type while alarming. When telephone line loss, "T" will flashes in the lower right corner of LCD.
2. Armed indicator: indicator on (in arm-away status)
   indicator flashes (in arm-stay status)
   indicator off (disarmed)
3. Power indicator: indicator flashes quickly indicate standby power low-voltage
   indicator flashes slowly indicate AC power low-voltage
   indicator on indicate standby power and AC power is in normal working status. While standby power or AC power low voltage, buzzer chirps one minute. Buzzer off until disarmed.
4. Alarm indicator: indicator on when zone alarming; indicator flashes when dialing the alarm center.
5. Horn: send alarm sound while alarming or play the sound by programming the system.
6. Record monitor microphone: field monitor or used for recording.
7. Key:
   - ● Four function keys: AWAY, STAY, DISARM, and PROG keys. The PROG key is a compound key and the other function is for panic.
   - ● Digit key, "*" key and "#" key are used in programming and relevant operations. "*" key is used to cancel the last operation; "#" key is used to confirm the input; "6" and "9" are used to turn pages while inquiring records of events or many zones alarm at the same time.

Note: As long as any key is pressed, buzzer sounds "Di" and back light is on. If no key be pressed for 30 seconds the back light turns off.

6.2 Power supply connection

● Check line connection again, ensuring all lines are connected correctly.
● Switch on AC power or turn on the standby power; buzzer will beep twice; back light of the keypad and indicator will be on. Keypad begins to initialize and then buzzer continuously beeps, LCD displays

```
Initialize...
```

LCD circularly displays the status information, buzzer beeps twice in every minute. Buzzer chirps once until finished the initialization, LCD displays the status information. The system begins working .If the system works normally; it will take two seconds for initialization. If this process takes more than eight seconds LCD displays 'Communication Error', buzzer chirps once every second .It is because that the main board is not connected with the row line of the keypad, please plug the row line again.

6.3 System initialization finished

After initialization the LCD displays:

```
Arm-away
Year-Month-Day Hour: Minute
```

Indicating the system is in arm-away status, the present time is Year Month Date Hour Second. May be the system is in arm-stay or disarm status. The corresponding display is the status when the system is closed last time.

```
Version vary!
Year-Month-Day Hour: Minute
```

If LCD displays 'Version vary!' buzzer sends out alarm voice , indicating CPU (U1、U201、U402) with different software version number. Cleaning the alarm voice and the display by the disarm command. In this status please contact with the manufacture or the supplier. Refer to the appendix 1 for inquiring software version number.

6.4 Alarm

The control panel alarm can be classifies under two types: zone alarm and fault alarm.

9.3.27 Record playing — Enter: 71 X

Operation: (PROG→X →#) →71→x→#

Parameters setting: X=1~8 specified alarm sound, X=9 user address record playing

X=1: entry/exit zone alarm
X=2: active zone alarm
X=3: perimeter zone alarm
X=4: panic zone alarm
X=5: fire zone alarm
X=6: gas zone alarm
X=7: anti-tamper zone alarm
X=8: duress zone alarm
X=9: (sound recorded by user.)

Function: User can check sound effect of recording and play alarm type sound .

For example: (PROG→user password→#)→719→#

While playing, LCD displays:

```
Playing...
  04 sec
```

While the playing record time reduce from four seconds to zero (user recording time is four seconds, sound of alarm type is about two seconds) playing finished. After playing, LCD displays the information about reenter command status as followed:

```
Input Command
```

9.3.28 Event record reading — Enter: 80 XX

Operations: (PROG→ user password→ #)→ 80→ XX→ #.

Parameters definition: XX=01~40 event records.

Functions: The system stores 40 event records, which can be inquired by user any time. The system records alarm in zones, but no fault alarm for AC power loss, battery low voltage, telephone line loss, etc.

Note: XX=01~40 is event number in time order. The latest event number is 01, the rest are numbered in this way. When the 40 records are restored, the latest event records replace the oldest event records. After inputting

XX=21~24 (4 wired zones);

XX=30(control panel with anti-tamper function)

Bypass for all wired zones in factory default setting, no bypass for other zones.

Functions: Close some zone temporarily, then the zone can be activated freely without alarm.

9.3.25 Zone bypass canceling Enter: 66 XX

Operations: (PROG→ user password→#)→ 66→XX→#.

Parameters definition: XX means canceling bypassed zone number.

XX=01~16 (16 wireless zones)

XX=17('Panic' key on the keypad and remote controller)

XX=21~24 (4wired zones);

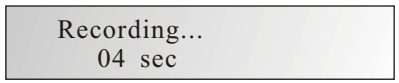
XX=30(control panel with anti-tamper function)

Functions: User can cancel bypass in the zone to restore alarm function of some bypassed zone.

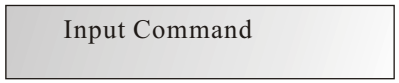
9.3.26 Sound recording Enter: 700

Operation: (PROG→ user password→#) →700→#

While recording LCD displays:



User had better close to the microphone. The recording time is about four seconds. After recording, LCD displays the information about reenter the input command status as followed:

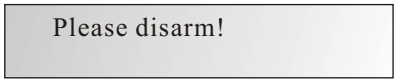


User can check sound effect of recording. Operate the recording command, the horn will play the record.

Function: The control panel can record sound for 4 seconds. User can record family address and other alarm voice. When alarming, the system sends the record to receiver via telephone network then sends the alarm type record.

1)Zone alarm

The zone will alarm with the connection of 24- hour zone .If connects the zone with enter-delay, the buzzer will chirp tightly and LCD displays:



If disarm before the end of enter-delay time there will be no zone alarm otherwise the system will prompt zone alarm. If the system is in zone alarm status and connect the zone with enter-delay, the system prompt zone alarm only but enter-delay.

When alarming LCD displays relevant alarm zone number and zone type, alarm indicator is switched on, buzzer chirps tightly .If zones alarm at the same time , LCD circularly displays the alarm zone number and zone type every two seconds or press '6' key or '9' key to flip the alarm zone information.

2) Fault alarm

The fault alarms including battery in low-voltage AC power loss and telephone line loss, buzzer chirps 1 minutes, the indicator and LCD displays corresponding status. The power indicator shows the battery low-voltage and AC loss power loss. The letter 'T' flashes on the lower right corner of the LCD every second indicate the telephone line loss.

6.5 Alarm type

Alarm type	Alarm center	Phone Alarm	Alarm indicator	Keypad buzzer	Bell
Fire zone	Yes	Yes	On	Chirp (time adjustable)	Chirp (time adjustable)
Gas zone	Yes	Yes	On	Chirp (time adjustable)	Chirp (time adjustable)
Panic zone	Yes	Yes	On	Chirp (time adjustable)	Chirp (time adjustable)
Perimeter zone	Yes	Yes	On	Chirp (time adjustable)	Chirp (time adjustable)
Active zone	Yes	Yes	On	Chirp (time adjustable)	Chirp (time adjustable)
Entry/Exit zone	Yes	Yes	On	Chirp (time adjustable)	Chirp (time adjustable)
Duress zone	Yes	Yes	/	Muted	Muted
Anti-tamper zone	Yes	Yes	On	Chirp (time adjustable)	Chirp (time adjustable)
Telephone line loss	No	No	/	Chirp for 1 minute	Muted
AC power loss	Yes	No	Flash	Chirp for 1 minute	Muted
DC power low-voltage	Yes	No	Flash	Chirp for 1 minute	Muted

7. Zone type and zone number

7.1 Zone type

Zone type	Valid or not when disarm	Valid or not when going out	Valid or not when stay in	Exit delay	Enter delay	Acoustic-optic alarm	Mounted position or detector	Type number
Entry/Exit zone	Invalid	Valid	Valid	Yes	Yes	Yes	Gate	01
Active zone	Invalid	Valid	Invalid	Yes	Yes	Yes	Indoor	02
Perimeter zone	Invalid	Valid	Valid	No	No	Yes	Veranda Window	03
Panic zone	Valid	Valid	Valid	No	No	Yes	Panic Button	04
Fire zone	Valid	Valid	Valid	No	No	Yes	Fire Detector	05
Gas zone	Valid	Valid	Valid	No	No	Yes	Gas Detector	06
Anti-tamper zone	Valid	Valid	Valid	No	No	Yes	Anti-tamper Device	07
Duress zone	Valid	Valid	Valid	No	No	No	Emergency Button	08

7.2 Zone number

- Wireless zone: 01~16
- Wired zone: 21~24
- Panic zone: 17
- Duress code: 18
- Anti-tamper of the control panel: 30

7.3 Zone type displaying

Zone type	LCD	Type number
Entry/Exit zone	Entry Exit	01
Active zone	Active	02
Perimeter zone	Perimeter	03
Panic zone	Panic	04
Fire zone	Fire	05
Gas zone	Gas	06
Anti-tamper zone	Tamper	07
Duress zone	Duress	08

8 Function key operation

The operation of arm-away, arm-stay, disarm, and panic can be achieved by using the function keys on keypad or wireless remote controller. The system applies wireless remote controller with 4 keys which can achieve operations of arm-away/stay, disarm and panic alarm. Press key on the remote controller towards the control panel to perform corresponding operations.

some remote controller. Changing the code learn to solve the above problem. If the problem is not because the above reasons, checking the detector and make sure its carrier frequency is different from the control panel.

Note: After inputting command, user has to activate a wireless detector in 1 minute, other wise the system can't enroll the wireless detector. Moreover, user had better activate a wireless detector as soon as possible to avoid influence from wireless clutter wave. During the code learn operation, only the '*' key is valid, press this key to exit the code learn operation status. The system is in operation status.

9.3.21 Wireless zone detector canceling — Enter: 62 XX

Operations: (PROG→ user password→ #) 62→ XX→ #.

Parameters definition: X=01~16, indicating zone number of wireless detector.

Functions: Reduce wireless detectors as required

For example: Cancel NO.03 detector in wireless zones

press: (PROG→ user password→ #)→ 62 →03→ #.

9.3.22 Enroll wireless remote controller — Enter: 63 X

Operations: (PROG→ user password→ #)→ 63→ X→ #.

Parameters definition: X=1~5, number of wireless remote controller.

Functions: The system can enroll 5 wireless remote controllers at most to do operations of arm away/stay, disarm and panic, add wireless remote controller as required. After inputting command, press any key of wireless remote controller towards the control panel until buzzer chips once that indicate the system enroll the wireless remote controller successful. Refer to 9.3.20.

9.3.23 Wireless remote controller canceling — Enter: 64 X

Operations: (PROG→ user password→#)→64→X→#.

Parameters definition: X=1~5, number of wireless remote controller.

Functions: After canceling some remote controller they will have no effect on the system.

9.3.24 Zone bypass — Enter: 65 XX

Operations: (PROG→ user password→#)→ 65→ XX→ #.

Parameters definition: XX means zone bypass number.

X=01~16 (16 wireless zones);

XX=17 (Panic key on remote controller and keypad.)

The factory default setting is all wireless zones are type 4(panic zone). Wired zone 21 is type 1(entry/exit zone), Wired zone 22 is type 2(active zone), Wired zone 23 is type 3(perimeter zone) Wired zone 24 is type 4(panic zone)

Functions: Set different zone types .It can not modify the zone types of the zone 17(panic zone), the zone 18 (duress password zone) and the zone type of the No.30 control panel anti-tamper zone.

For example: Set wired zone 21 as gas zone, wireless zone 3 as fire alarm zone, press (PROG→ user password→ #)→ 40→ 21→ 6→#→ 40→ 03→ 5→ #

Note: When the system is in arm- away status, all zones are valid; when the system is in arm- stay status, active zone is invalid, but other zones are still valid ; when the system is in disarm status, fire alarm zone, gas zone, panic zone, anti-tamper zone and duress zone are still valid.

9.3.20 Enroll wireless zone detector Enter: 61 XX

Operations: (PROG→ user password→#) 61→ XX→ #.

Parameters setting: X=01~16, indicating zone number of wireless detector .

Functions: Add wireless detectors as required.

For example: Enroll NO.03 wireless zone detector

press: (PROG→ user password→ #)→ 61→ 03→ #.

```
Learning code...
    60 sec
```

The code learn operation time is about 60 seconds .During this period, trigger the zone detector with code learn, buzzer chirps once if the code inputted is correct, LCD displays:

```
Input Command
```

If the system hasn't received the wireless signal at the end of operation time, it indicate the code learn fail, buzzer chips 5 times, LCD displays:

```
Program Fail
```

If Code learn fail after trying and trigger the detector many times, there will be two reasons: First, the enrolling code learn has been used by some detector in the system. Second, the enrolling code learn has been used by

Figure 10

8.1 Aram-away

1. When the system is in disarm/arm-stay status press 'AWAY' key on the control panel or remote controller, armed indicator on, buzzer begins to sound 'Di-Di', the system is in exit-delay status and LCD displays:

```
Arming...
```

The buzzer will off until exit delay over, LCD displays:

```
Arm-away
Year-Month-Day Hour: Minute
```

2. When the system is in zone alarm status, press 'AWAY' key on the control panel or remote controller,LDC displays:

```
Can't arm
Please disarm
```

3. In Arm-away status, there is no use to press the 'AWAY' key on the control panel or press the 'Arm-away' key on the remote controller, buzzer chips once.

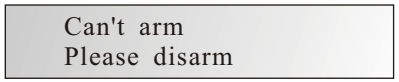
8.2Arm-stay

The arming mode can be applied when user is at home. When all zones are in armed status without 'Active Zone' is bypassed.

1) If the control panel is in disarmed status, press the 'STAY' key on the control panel or remote controller, armed indicator flashes, buzzer chirps once and LCD displays:

```
Arm-stay
Year-Month-Day Hour: Minute
```

2. If the control panel is in 'Arm-away' status and no zone alarms, press the 'STAY' key on control panel, input password to enter arm-stay status or press the 'Arm-stay' key on remote controller to enter the arm-stay status directly ,the buzzer chirps once ,armed indicator flashes.
3. If the control panel is in zone alarm status, press the "STAY" key on the control panel or remote controller, LCD displays:

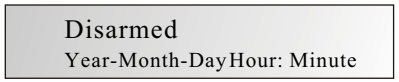


4. If the system is in arm- stay status, it is no use to press 'STAY' key on the control panel or press 'Arm-stay' key on the remote controller, buzzer chips once

8.3 Disarm

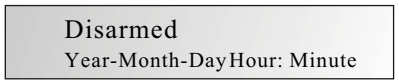
1. Disarm without reserving the alarm status information press the 'DISARM' key on the control panel LCD displays:

Input user password or operation password add '0', press '#' confirm. Armed indicator off, buzzer chirps once, the system is disarmed, LCD displays



2. Disarm with reserving alarm status information ： press the function key 'DISARM' on the control panel, LCD displays:

If there is no alarm, input user password or operation password press '#' confirm. Armed indicator off, buzzer chirps once, the system is disarmed. LCD displays



If the system is in zone alarm status, after disarmed, armed indicator off, buzzer chirps once, LCD displays zone alarm information but the system is still in disarm status. User can disarm again to clean the alarm information.

X minute (24 hours), default is 8888.

Functions: The system can set 3 groups arm time. If user wants to cancel some set arm time, set YYYY as 8888.

For example: Set 08:00 and 22:00 as arm time

press: (PROG→ user password→ #) →35→ 1 →0800→ # →35→ 2→2200→ #

Note: Before performing the functions above please set 'Timed auto-arm/auto-disarm selection' first. Refer to 9.3.7

9.3.18 Timed auto-disarm time setting Enter: 36 X YYYY

Operations: (PROG→ user password→ #)→ 36→ X→ YYYY→ #

Parameters definition: X means 1~3 groups disarming time. YYYY means X hour X minute (24 hours), default is 8888.

Functions: The system can set 3 groups disarm time. If user wants to cancel some set disarming time, set YYYY as 8888.

For example: Set 08:00 and 22:00 as disarm time,

press: (PROG→ user password →#)→ 36→ 1→ 0800 →#→ 36→ 2→2200→ #

Note: Before performing the functions above, please set 'Timed auto-arm/auto-disarm selection' first, refer to 9.3.7 Auto-arm/disarm time must be different because they can't be operated at the same time.

9.3.19 Zone type setting Enter: 40 XX Y

Operations: (PROG→ user password→ #)→ 40→ XX →Y →#.

Parameters definition: XX means wired/wireless zone number.

X=01~16(16 wireless zones)

X=21~24(4 wired zones);

Y=1, entry/exit zone;

Y=2, active zone;

Y=3, perimeter zone;

Y=4, panic zone;

Y=5, fire zone;

Y=6, gas zone;

Y=7, anti-tamper zone;

Y=8, duress zone.

XX=10(100 seconds)

……

XX=20(200 seconds)

……

XX=30(300 seconds)

The factory setting is XX=04(40 seconds)

Function: The system entry delay time adjustment

9.3.14 Year setting — Enter 32 XX

Operations: (PROG→ user password →#) →32 →XX→ #

Parameters definition: XX=00~99, indicating year, default is XX=00.

Functions: Set year in real-time clock, default value is 2000 and the last two digits is set by user from 2000 to 2099.

For example: Set year 2010

press (PROG→ user password→#)→ 32 →10→ #.

9.3.15 Date setting — Enter: 33 XXXX

Operations: (PROG→ user password→ #) →33→ XXXX→ #

Parameters definition: XXXX is for date setting, XXXX means X month X day, default is XXXX=0101 that is 1st Jan.

Functions: Set date in real-time clock.

For example: Set 12th May

press (PROG→ user password→#)→ 33→ 0512 →#

9.3.16 Hour and munute setting — Enter: 34 XXXX

Operations : (PROG→ user password→ #) →34 →XXXX→ #

Parameters definition: XXXX is for clock setting, XXXX means X hour X minute (24 hours), default is 0000.

Functions: Set clock in real-time clock.

For example: Set 16:39

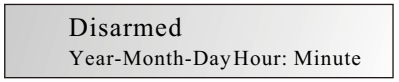
press (PROG→ user password→ #)→34 →1639 →#

9.3.17 Timed auto-arm time setting — Enter: 35 X YYYY

Operations: (PROG→ user password→ #)→ 35→ X →YYYY→ #

Parameters definition: X means 1~3 groups arm time. YYYY means X hour

3. Press the "Disarm" key on the remote controller to disarm with the same effect of the second method. This operation can not clean the alarm information. If the system is not in zone alarm status, press the "Disarm" key on the remote controller, armed indicator off, buzzer chirps once, the system is disarmed, LCD displays

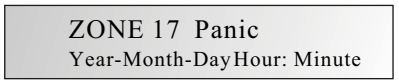


If the system is in zone alarm status, press the 'Disarm' key on the remote controller after disarmed, the armed indicator off, buzzer chirps once, LCD displays the zone alarm information but the system is still in disarm status. Please disarm again by using the first method above.

Note: If the system is not connected with the alarm center, the alarm indicator off after disarmed. If the system is connected with the alarm center after disarmed the alarm indicator off after flashing several times.

8.4 Panic

Press the 'PROG' key of the control panel or the 'Panic' key of the remote controller for 2 seconds, the control panel will alarm for panic, alarm indicator on ,buzzer chirps continually ,LCD displays:

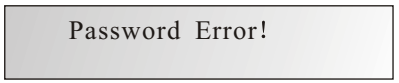


9. Program the system

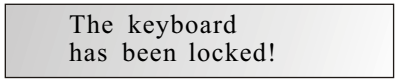
9.1 Password input

1. User needs to input password while disarm, RROG, flip arm-away status and arm-stay status. Operations: press DISARM/PROG /STAY+ user password (or operation password) + # before confirming the password, LCD displays:

2. After confirmation, if the password is right, LCD displays corresponding information .If the password is wrong, buzzer chirps 5 times, LCD displays:



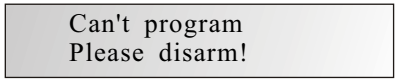
3. If input wrong password for 5 times continuously, the keypad will lock operation with password, LDC displays:



Note: If the keypad is in locked status, the system will unlock automatically when zone alarming. The system can unlock automatically after restarting or waiting half an hour.

9.2 Operation skills

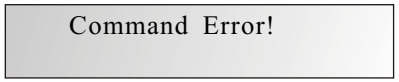
Setting the system in disarmed status otherwise LCD displays:



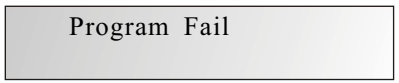
User disarms first then input: PROG +user password (not the operation password) + #, the control panel is in programming status, LCD displays:

Following the prompt of cursor input the commands. If the input digits are incorrectly, user can press '*'key to delete them then press '#' key to confirm. If the input command is correct, the control panel chirps twice, LCD displays:

Input the command to set the program, if the input is incorrect, control panel will chip five times, LCD displays:



Then input commands without password. If the command is correct, the control panel chirps five times, LCD displays:



That indicates the input is correct but the control panel can not carry out the command, user should input it again.

XX= 02 (2 minutes)

……

XX =10 (10 minutes)

……

XX =20 (20 minutes)

……

XX =30 (30 minutes)

The factory setting is XX= 10(10 minutes)

Function: Buzzer and bell chirp time adjustment

9.3.12 Exit delay time adjustment — Enter: 30XX

Operations: (PROG→ user password→ #)→30→XX→#

Parameters definition: XX=00~30, indicating time, unit is 10 seconds, delay time is among 0~300 seconds.

XX=00(no delay)

XX=01(10 seconds)

XX=02(20 seconds)

……

XX=10(100 seconds)

……

XX=20(200 seconds)

……

XX=30(300 seconds)

The factory setting is XX=10(100 seconds)

Function: The system exit delay time adjustment

9.3.13 Entry delay time adjustment — Enter: 31 XX

Operations: (PROG→user password→#)→31→XX→#

Parameters setting: XX=00~30, indicating time, unit is 10 seconds, delay time is among 0~300 seconds.

XX=00(no delay)

XX=01(10 seconds)

XX=02(20 seconds)

……

9.3.8 Telephone line checking ON/OFF option Enter : 26X

Operations: (PROG→ user password→ #)→ 26→ X→ #

Operations definition: X=1(ON)

X=0(OFF)

The factory setting is X=1(ON)

Functions: When the control panel is not connected with telephone, use this command to forbid checking the connection of telephone line. Avoid fault alarm voice when user turns on the control panel every time.

9.3.9 Protocol option Enter: 27X

Operations: (PROG→ user password→#)→27→X→#

Parameters definition: X=1 （4+1 Protocol）

X= 0 （Contact ID Protocol ）

The factory setting is X= 0 and supports Contact ID Protocol

Functions: The control panel supports 4+1 and Contact ID communication Protocol. User can choose one of them..

9.3.10 Relay output type setting Enter: 28 X

Operations: (PROG→ user password→ #) →28→ X→ #

Parameters setting: X=1: alarm output

X=2: fire alarm output

X=3: arm output

X=2 is the factory setting (fire alarm output)

Functions: Relay output type is N.O. If alarm output is set, the relay will close when alarm. If fire alarm output is set, the relay will close only fire zone alarm. If arm output is set, the relay will close when the system in armed status.

9.3.11 Bell/Buzzer chirp time setting Enter:29 XX

Operations: (PROG→ user password→ #) →29→ XX→ #

Parameters definition: XX=00~30, indicating time, unit is 1 minute. delay time is among 0~ 30 minutes

XX=00(0 minute no alert)

XX= 01 (1 minute)

Note: If user want to exit program status press '*' to delete digits .When all digits are deleted, press '*'key to exit. This operation can be realized by pressing '#' key or the four function keys .In the programming status, if without pressing any key for 1 minute, the system will exit present status and return to display clock and arm/disarm status.

9.3 System setting

To program the system, press PROG→ user password→ '#' then enter the programming status. In this status, setting the system with the command code without password .LCD displays corresponding status or digits.

9.3.1 Alarm telephone number setting/canceling Enter: 11 XY...Y

(1)Set alarm phone number

Operations: (PROG→user password→ #)→ 11→ X→Y...Y →#

Bracket means in programming status, it is not necessary to input

'PROG→ user password→ #', just input commands directly.

Parameters setting: X=1~6, indicates 1~6 groups telephone, 1 is alarm number of the alarm center, 2~6 are personal telephone numbers. Y...Y: indicates telephone number needed to dial (1~15 digits), telephone number is null in factory setting.

Functions: The system can be set 6 groups of alarm telephone number. NO. 1 is for the alarm center. User sets the first number, if alarm happens the system will call alarm center and sent out alarm information using ADEMCO protocol. The alarm center will take corresponding actions after receiving the alarm and alarm indicator flashes. If user does not open service of the alarm center, the system begins to dial number from NO.2 according to alarm information set. After switching on, play corresponding alarm sound. If user does not deal with alarm information, the system will continually dial the telephone number for 30times. (Refer to remote telephone operation).

For example: if user wants to set NO.2&3, operation as followed: PROG → User password→ # →11→ 2 →telephone number→ # → 11→ 3→ telephone number→ #

Note: In duress alarm status, the telephone will not dial the second, the third and the fourth group of telephones but the alarm center and the fifth, the sixth group of telephones. Recommended: the fifth, the sixth group of telephone numbers should not be set like the personal mobile phone number.

(2) Alarm telephone number cancelling

Operations: (PROG→ User password→ #) →11→ X →#

Parameters definition: X=1~6, indicates 1~6 groups telephone. 1 for the alarm center, 2~6 for personal telephone numbers.

Function: Cancel telephone number set (including telephone number of the alarm center).

9.3.2 User address code setting Enter:20 XXXX

Operations: (PROG→ user password→ #) →20→ XXXX→ #

Parameter definition: XXXX = 4 digits user address code. The factory setting is 1234.

Functions: After setting user address code, when alarm happens, the alarm center will distinguish which control panel is alarming. Do not set same user address code in one alarm center system.

9.3.3 User password modification Enter:21 XXXX

Operations: (PROG→ user password→ #)→ 21→ XXXX→ #

Parameters definition: XXXX is 4 digits new user password. The factory setting is 1234. User password must be different from the operation password otherwise LCD displays 'Please select other Password' and buzzer chirps five times to indicate the failed operation .User can clean operation password first then set user password to avoid the above limitations.

Functions: Modify user password which ensure the absolute authority to the system operation. User must hold password to operate the system. After setting password, user should ensure its safety and reliability.

Restore password in factory setting: Hardware restores factory setting. There is a jumper 'CB400' (Refer to figure 3) in control panel .Normally the jumper is in 'USE' mode, if user forgets password, he/she should turn off system power, turn jumper to 'DEFAULT' mode, then restart the system to restore user password in factory setting. After the system is initialized successfully, user should turn jumper to 'USE' mode, or the system will restore password in factory setting when initialized next time.

9.3.4 Operation password setting/canceling Enter:22 X YYYY

(1) Operation password setting

Operations: (PROG→ user password→ #) → 22→ X→ YYYY→ #

Parameter definitions: X=1~5(NO.X new operation password) YYYY is 4 digits new operation password which is null in factory setting. The new operation password must be different from the user password and duress password otherwise LCD displays 'Please select other Password' buzzer chirps five times to indicate the failed operation.

Functions: User can modify five operation passwords which can only be used to arm/disarm the system or make the control panel flip arm-away and arm-stay status but program the system.

(2)Operation password canceling

Operations: (PROG→ user password→ #) → 22→ X→ #

Parameter definitions: X=1~5(NO.X operation password)

Functions: Password canceling

9.3.5 Ringing attempts adjustment Enter:23X

Operations: (PROG→ user password→ #)→ 23→ X→ #

Parameters setting: X means ringing attempts. X=1- 9 times (X=0 indicating no telephone remote control and no automatically receiving the telephone) X = 6 is the factory setting.

Functions: The system is able to operate in remote place. When user in other place dials phone connected to the control panel, the system will receive the telephone automatically. User can input password to arm or disarm.

Note: If telephone and the control panel use the same telephone line, set ringing attempts as many as possible to avoid clashing. After setting ringing attempts, the system begins to accept user remote operation.

9.3.6 Bell ON/OFF setting Enter: 24 X

Operations: (PROG→ user password→ #) →24→ X →#

Parameters definition: X=1(ON)

X=0(OFF)

The factory setting is X=1 (ON).

Functions: User can choose bell alarm or not. Setting the bell, it will be on when the system alarms; otherwise only buzzer and horn alarm.

9.3.7 Timed auto-arm/disarm option Enter: 25 X

Operations: (PROG→ user password→ #)→ 25→ X→ #

Parameters definition: X=1: valid (Timed arm/disarm allowed).

X=0: invalid (Timed arm/disarm not allowed)

The factory setting is X=0 (Timed arm/disarm not allowed)

Functions: The system can be set auto-arm or auto-disarm in certain moment as required. After setting these function, auto-arm/ auto-disarm time can be set. Refer to 9.3.17 and 9.3.18 for detail information.