



Network Security Control Panel

User Manual

UD07466B

User Manual

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This Manual is applicable to Control Panel

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Regulatory Information

FCC Information

Please take attention that changes or modification not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

FCC compliance: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

This equipment should be installed and operated with a minimum distance 20cm between the radiator and your body.

FCC Conditions

This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions:

1. This device may not cause harmful interference.
2. This device must accept any interference received, including interference that may cause undesired operation.

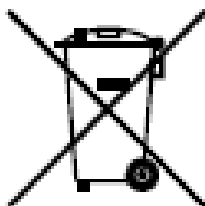
EU Conformity Statement



This product and - if applicable - the supplied accessories too are marked with "CE" and comply therefore with the applicable harmonized European standards listed under the R&TTE Directive 1999/5/EC, the EMC Directive 2004/108/EC, the LVD Directive 2006/95/EC, the RoHS Directive 2011/65/EU.



2012/19/EU (WEEE directive): Products marked with this symbol cannot be disposed of as unsorted municipal waste in the European Union. For proper recycling, return this product to your local supplier upon the purchase of equivalent new equipment, or dispose of it at designated collection points. For more information see: www.recyclethis.info



2006/66/EC (battery directive): This product contains a battery that cannot be disposed of as unsorted municipal waste in the European Union. See the product documentation for specific battery information. The battery is marked with this symbol, which may include lettering to indicate cadmium (Cd), lead (Pb), or mercury (Hg). For proper recycling, return the battery to your supplier or to a designated collection point. For more information see: www.recyclethis.info

Industry Canada ICES-003 Compliance

This device meets the CAN ICES-3 (B)/NMB-3(B) standards requirements.

This device complies with Industry Canada licence-exempt RSS standard(s). Operation is subject to the following two conditions:

- (1) this device may not cause interference, and
- (2) this device must accept any interference, including interference that may cause undesired operation of the device.

Le présent appareil est conforme aux CNR d'Industrie Canada applicables aux appareils radioexempts de licence. L'exploitation est autorisée aux deux conditions suivantes :

- (1) l'appareil ne doit pas produire de brouillage, et
- (2) l'utilisateur de l'appareil doit accepter tout brouillage radioélectrique subi, même si le brouillage est susceptible d'en compromettre le fonctionnement.

Under Industry Canada regulations, this radio transmitter may only operate using an antenna of a type and maximum (or lesser) gain approved for the transmitter by Industry Canada. To reduce potential radio interference to other users, the antenna type and its gain should be so chosen that the equivalent isotropically radiated power (e.i.r.p.) is not more than that necessary for successful communication.

Conformément à la réglementation d'Industrie Canada, le présent émetteur radio peut fonctionner avec une antenne d'un type et d'un gain maximal (ou inférieur) approuvé pour l'émetteur par Industrie Canada. Dans le but de réduire les risques de brouillage radioélectrique à l'intention des autres utilisateurs, il faut choisir le type d'antenne et son gain de sorte que la puissance isotrope rayonnée équivalente (p.i.r.e.) ne dépasse pas l'intensité nécessaire à l'établissement d'une communication satisfaisante.

This equipment should be installed and operated with a minimum distance 20cm between the radiator and your body.

Cet équipement doit être installé et utilisé à une distance minimale de 20 cm entre le radiateur et votre corps.

Safety Instruction

These instructions are intended to ensure that the user can use the product correctly to avoid danger or property loss.

The precaution measure is divided into 'Warnings' and 'Cautions':

Warnings: Serious injury or death may be caused if any of these warnings are neglected.

Cautions: Injury or equipment damage may be caused if any of these cautions are neglected.

	
Warnings Follow these safeguards to prevent serious injury or death.	Cautions Follow these precautions to prevent potential injury or material damage.



Warnings:

- Please adopt the power adapter which can meet the safety extra low voltage (SELV) standard. The power consumption cannot be less than the required value.
- Do not connect several devices to one power adapter as an adapter overload may cause over-

heating and can be a fire hazard.

- When the product is installed on a wall or ceiling, the device should be firmly fixed.
- To reduce the risk of fire or electrical shock, do not expose the indoor used product to rain or moisture.
- This installation should be made by a qualified service person and should conform to all the local codes.
- Please install blackouts equipment into the power supply circuit for convenient supply interruption.
- If the product does not work properly, please contact your dealer or the nearest service center. Never attempt to disassemble the product yourself. (We shall not assume any responsibility for problems caused by unauthorized repair or maintenance.)
- Please do not look directly into the laser light within 6 meters because laser is hazardous to humans.



Cautions:

- Make sure the power supply voltage is correct before using the product.
- Do not drop the product or subject it to physical shock. Do not install the product on vibratory surface or places.
- Do not expose it to high electromagnetic radiating environment.
- Do not aim the lens at the strong light such as sun or incandescent lamp. The strong light can cause fatal damage to the product.
- The sensor may be burned out by a laser beam, so when any laser equipment is being used, make sure that the surface of the sensor not be exposed to the laser beam.
- For working temperature, please refer to the specification manual for details.
- To avoid heat accumulation, good ventilation is required for a proper operating environment.
- While shipping, the product should be packed in its original packing.
- Please use the provided glove when open up the product cover. Do not touch the product cover with fingers directly, because the acidic sweat of the fingers may erode the surface coating of the product cover.
- Please use a soft and dry cloth when clean inside and outside surfaces of the product cover. Do not use alkaline detergents.

- Improper use or replacement of the battery may result in hazard of explosion. Please use the manufacturer recommended battery type.

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Chapter 1 System Introduction

1.1 Overview

Network security control panel uses embedded microcontroller technology for zone monitoring and system status detection. The alarm or status reports can be transmitted to the central alarm monitoring station through programming. Multiple alarm types and report transmission methods (telephone network, the Ethernet network, and the GPRS wireless network) are supported. A mobile client is attached for key fobs such as pushing alarm notifications or status reports and remote arming/disarming. The control panel is deployed mainly in the security systems of shopping malls, stores, residences, apartments, communities, and so on.

1.2 System Definition

1.2.1 Partition

- **Definition**
Partition is an independent area divided from the security control panel. Partitions are independent control system, and can provide arming/disarming function respectively.
- **Usage**
It is partitions that make it possible for users with different demands to share and use a same intrusion alarm system. Users can disarm zones in one partition even though zones in other partitions are in the arming status. Every system user can be configured to have different permissions, and to operate any partition.

1.2.2 Public Partition

- **Definition**
Public partition is considered a special one which can be shared to other partitions. It is usually applied to manage or control the public area related with other areas controlled by other partitions in one building.
- **Logic**
The public partition is armed automatically when all partitions linked with the

public partition are in the arming status.

The public partition is disarmed automatically when any of partitions linked with the public partition is in the disarming status.

The user also can arm or disarm the public partition independently.

- **Limit**

For the public partition of multiple security control panels, up to 2 other partitions can be linked to it.

1.2.3 Zone

- **Definition**

Zone is a basic concept in the security control panel system. It refers to a protection area in the system, and is regarded as the maximum recognizable unit to distinguish the alarm event. As a connection between the detector and the security control panel, it determines whether to trigger an alarm according to the resistance value of the alarm controller.

1.2.4 Zone Type

- **24-Hr Audible Alarm Zone**

The detectors of this zone are in 24 hours' alert condition, which will not be affected by arming and disarming operation or be bypassed. When the zone detects alarm events, the sound and light alarming prompt will be triggered on the keyboard. The siren output will be triggered when the siren is linked, meanwhile the generated event report will be uploaded to the center receiver, and the zone alarm status can be checked on the client. This zone type is generally applied to emergency button, smoke detector and glass break detector.

- **24-Hr Silent Alarm Zone**

The detectors of this zone are in 24 hours' alert condition, which will not be affected by arming and disarming operation or be bypassed. When the zone detects alarm events, the sound and light alarming prompt will be triggered on the keyboard. The siren output will be triggered when the siren is linked, meanwhile the generated event report will be uploaded to the center receiver, and the zone alarm status can be checked on the client. This zone type is generally applied to the sites equipped with emergency button (e.g. bank, jewelry counter).

- **24-Hr Auxiliary alarm zone**

The detectors of this zone are in 24 hours' alert condition, which will not be affected by arming and disarming operation or be bypassed. When

the zone detects alarm events, the sound and light alarming prompt will be triggered on the keyboard. The siren output will be triggered when the siren is linked, meanwhile the generated event report will be uploaded to the center receiver (the uploaded report is different with the report of 24-Hr Audible Alarm Zone), and the zone alarm status can be checked on the client. Generally, it is used to define a zone with emergency button, or a zone used to monitor devices, such as water detector or temperature sensor.

- **Fire Alarm Zone**

The detectors of this zone are in 24 hours' alert condition, which will not be affected by arming and disarming operation or be bypassed. When the zone detects alarm events, the sound and light alarming prompt will be triggered on the keyboard. The siren output will be triggered when the siren is linked, meanwhile the generated event report will be uploaded to the center receiver (the uploaded report is different with the report of 24-Hr Audible Alarm Zone), and the zone alarm status can be checked on the client. This zone type is generally used in the smoke detector.

- **Perimeter Zone/Instant Zone**

When the system is armed, the detectors of this zone will be in alert condition. The zone will be immediately triggered when it detects alarm event, and the system will alarm instantly without any delay time. When the system is disarmed, if the zone hasn't recovered, a zone alarm recovered report will be automatically reported to the center receiver, and the zone turns to fault status. This zone type can be assigned to all the detectors, especially the detectors that used to protect doors and windows.

- **Entering/Exiting Delayed Zone**

The system will provide exiting delay after performing the arming operation. The zone will not alert during exiting delay and the detectors of this zone will be in alert condition at the end of exiting delay. When the system is in arm away or arm stay, it will provide enter delay when the zone detects alarm event. Users must disarm the system by the end of enter delay, if not, the zone alarm will be triggered. When the system is in arm instant, the alarm will occur instantly after the zone detects alarm event, and the system will not provide enter delay. Both the exiting delay and enter delay can be programmable set. This zone type is mainly used in entrance/exit route (e.g. front door/main entrance), which is a key route to operate keyboard for users.

- **Interior Follower Zone**

After arming the system, if the delayed Zone is first triggered, the system will provide an entry delay when the interior follower zone is triggered. If not, the interior follower zone will trigger alarm instantly. The delay parameters of interior follower zone are the same with the e delayed zone. It is mostly set in the rest room or hall (e.g. motion detector), which is a key place to operate keyboard for users.

- **Key Arming/Disarming Zone**

When the zone detects the output of detector event, the partition arming will be triggered, while the recovery of detector event will trigger disarming of the partition. This zone type will not be affected by arming and disarming, and also can't be bypassed. The zone can't display the alarm status, but can show fault status if the detector hasn't recovered after performing the disarming operation.

1.2.5 Relay

- **Definition**

Relay refers to a programmable relay output of the security control panel, and a connection between the security control panel and the follow-up output device. By linking the relay, the security control panel can send the system event to the cascading device, so as to connect the external light, or enable or disable other devices.

1.2.6 User Operations

- **Arming**

When the arming turns on, the intrusion detector starts work normally and turn on the intrusion detection. The zones and loops that under the arming status are detected in real time.. Once the resistance value exceeds the threshold, the alarm starts.

- **Away Arming**

When all the people in the detection area leave, turn on the Away Arming mode to turn on all zones in the system after the defined dwell time.

- **Instant Arming**

When all the people in the detection area leave, turn on the Instant Arming mode to turn on all zones in the system instantly.

- **Stay Arming**

The people stays inside the detection area, turn on the Stay Arming mode to turn on all the perimeter burglary detection (such as perimeter detector, magnetic contacts, curtain detector in the balcony), at the meanwhile, the detectors inside the detection area are bypassed (such as PIR detectors). People can move inside

the area and not trigger alarm.

- **Disarming**

If you want to turn off the arming of the detectors, you should disarm the system. Then the zones that disarmed are not protected, even an event occurs and triggers the detectors, and no alarm will be trigger by controller.

- **Bypass**

You can bypass any zone to turn off the protection of it when some exception occurs while other zones can work normally.

- **Bypass Recovering**

You can recover the zone that is bypassed to make it work normally and be protected.

- **Group Bypass**

You can bypass several zones to turn off the protection of them when some exception occurs while other zones can work normally.

- **Group Bypass Recovering**

You can recover the zones that are group bypassed to make them work normally and be protected.

Chapter 2 System Controlling

2.1 Keypad Operation Code

Single Partition Mode

Default Status: the control is in the single partition mode, that is, only partition 1 is enabled.

Multi-Partitions Mode

1) In the multi-partitions mode (equal to or more than 2 partitions), there are 2 modes for keypad operations: global keypad mode, and partition keypad mode.

- Global Keypad Mode: In this mode, the user does not enter the partition. The object of keypad operation is the whole system of the control panel.

- Partition Keypad Mode: In this mode, the user enters the partition. The object of keypad operation is the partition that the user enters.



- When initializing the device, the partition 1 is enabled and the global keypad mode is disabled by default. The global keypad enters the partition mode, and cannot be switched into the global mode. The system will enable the global mode automatically unless the partition except for partition 1 is enabled.
- The command for entering partition is “*3n#”, in which the range of n is from 1 to 8, standing 8 partitions.
- The command for exiting partition is “*#”.

2) Only the administrator and the installer have the permission to operate the global keypad. On the global keypad, the administrator can view and operate all partitions and the whole control panel system.

3) When operating on the partition keypad, the administrator can only operate the partition which the keypad belongs to.

2.1.1 Device Initialization

Function: The control panel can be recovered through the alarm keypad initialization.

Command: [Installer Password] + [*] + [8] + [9] + [#]

Demonstration: E.g., the installer password is 012345.	LCD Display
Press the installer password: [0] [1] [2] [3] [4] [5].	
Press [*] to enter the working mode.	xxxxxxx*89
Press the device initialization command: [8] and [9].	
Press [#] to confirm the operation.	If the operation is successful, Operation Succeeded
	If the operation is failed, Operation Failed

2.1.2 Control Panel Arming and Disarming

Function: The operation of control panel arming and disarming is the same. After the operation is completed, the arming status of the control panel will be changed (the status of arming will be exchanged into disarming), and vice versa.

Command: [User Password] + [#]

Demonstration: E.g., the user password is 1234.	LCD Display
Arming: The current status is status of disarming.	
Press the user password: [1] [2] [3] [4].	XXXX
Press [#], and the status of disarming will be changed into arming.	If the operation is successful, Operation Succeeded
	If the operation is failed, Operation Failed
Disarming: The current status is status of arming.	
Press the user password: [1] [2] [3] [4].	XXXX
Press [#], and the status of arming will be changed into disarming.	If the operation is successful, Operation Succeeded
	If the operation is failed, Operation Failed

2.1.3 Zone Bypass Operation

Zone Bypass

Function: After bypassing a zone, all the alarm devices in this zone will be blocked.

Command: [User Password] +  + [Zone No.] + [#]

Demonstration: E.g., the user password is 1234, and the zone No. is 3.	LCD Display
Press the user password: [1] [2] [3] [4].	
Press the bypass key: ⊗ .	xxxx Bypass 03
Press the zone No.: [0] [3].	
Press [#] to confirm the operation.	If the operation is successful, Operation Succeeded
	If the operation is failed, Operation Failed

Multi-Zones Bypass Operation

Function: Through the multi-zones bypass operation, multiple zones can be bypassed continuously, and all alarm devices in these zones will be blocked.

Command:

[User Password] + [Bypass] + [Zone No.] + [#] + [Bypass] + [Zone No.] + [#] [Bypass] + [Zone No.] + [#]
15 Seconds

Demonstration: E.g., the user password is 1234, and the zone is No. 03, No. 04, and No. 05.	LCD Display
Press the user password: [1] [2] [3] [4]. Note: For the continuous bypass operation, the user password is required to be entered once only.	
Press the bypass key  to bypass zone No. 3.	
Press the zone No.: [0] [3].	
Press [#] to confirm the operation.	
Press the bypass key  to bypass zone No. 4.	
Press the zone No.: [0] [4].	
Press [#] to confirm the operation.	
Press the bypass key  to bypass zone No. 5.	
Press the zone No.: [0] [5].	

Press [#] to confirm the operation.

If the operation is successful,

Operation Succeeded

If the operation is failed,

Operation Failed



- Multi-zones bypass/bypass recovery should be conducted in 15 seconds. For example, bypass operations of the zone No. 04 and zone No. 05 should be completed in 15 seconds in the above demonstration.

2.1.4 Instant Arming

Function: The control panel can be set into the instant arming status via the keypad. The instant arming means that the exiting delay is 0s.

Command: [User password] + [*] + [7] + [#]

Demonstration:
E.g., the user password is 1234.

LCD Display

Press the user password:
[1] [2] [3] [4].

Press [*] to enter the working mode.

xxxx*7

Press [7], and the control panel enters the instant arming status.

Press [#] to confirm the operation.

If the operation is successful,

Operation Succeeded

If the operation is failed,

Operation Failed

2.1.5 Stay Arming

Function: After the operation is completed, the partition will change the status of disarming (current status) into arming immediately. The bypass supported zone of the partition will do auto-bypass simultaneously.

Command: [User Password] + [*] + [4] + [#]

Demonstration: E.g., the user password is 1234.	LCD Display
Press the user password: [1] [2] [3] [4].	
Press [*] to enter the working mode.	xxxx*4
Press [4], and the control panel enters the stay arming status.	
Press [#] to confirm the operation.	If the operation is successful, Operation Succeeded
	If the operation is failed, Operation Failed

2.1.6 Force Arming

Force Normal(Away) Arming

Function: After the operation is completed, all the zones in fault status except the 24-hour arming zones will be bypassed.

Command: [User Password] +  + [#]

Demonstration: E.g., the user password is 1234, and the zone number is 03.	LCD Display
Press the user password: [1] [2] [3] [4].	
Press the bypass key:  .	
Press [#] to confirm the operation.	If the operation is successful, 
	If the operation is failed, 

Force Instant Arming

Function: After the operation is completed, all the zones in fault status except the 24-hour arming zones will be bypassed. The force instant arming means that the exiting delay is 0s.

Command: [User password] + [*] + [7] +  + [#]

Demonstration: E.g.,the user password is 1234.	LCD Display
Press the user password: [1] [2] [3] [4].	xxxx*7Bypass
Press [*] to enter the working mode.	
Press[7], and the control panel enters the force instant arming status.	
Press the bypass key:⊘.	
Press [#] to confirm the operation.	If the operation is successful, Operation Succeeded
	If the operation is failed, Operation Failed

Force Stay Arming

Function: After the operation is completed, all the zones in fault status except the 24-hour arming zones will be bypassed. The bypass supported zone of the partition will do auto-bypass simultaneously.

Command: [User Password] + [*] + [4] + ⊘ + [#]

Demonstration: E.g.,the user password is 1234.	LCD Display
Press the user password: [1] [2] [3] [4].	
Press [*] to enter the working mode.	
Press [4], and the control panel enters the force stay arming status.	
Press the bypass key:  .	
Press [#] to confirm the operation.	If the operation is successful, 
	If the operation is failed, 

2.1.7 Canceling Keypad Alarm

Function: When the alarm is triggered, it can be cancelled by the keypad. The alarm can be cancelled both under the arming and disarming status.

Canceling Alarm under the Arming Status

Command: [User Password] + [*] + [1] + [#]

Demonstration: E.g., the user password is 1234.	LCD Display
Press the user password: [1] [2] [3] [4].	
Press [*] to enter the working mode.	xxxx*1
Press [1] to cancel the alarm under the arming status.	
Press [#] to confirm the operation.	If the operation is successful, Operation Succeeded If the operation is failed, Operation Failed

Canceling Alarm under the Disarming Status

Command 1: [User Password] + [*] + [1] + [#]

Demonstration: E.g., the user password is 1234.	LCD Display
Press the user password: [1] [2] [3] [4].	
Press [*] to enter the working mode.	xxxx*1
Press [1] to cancel the alarm under the disarming status.	
Press [#] to confirm the operation.	If the operation is successful, Operation Succeeded If the operation is failed, Operation Failed

Command 2: [*] + [1] + [#]

Demonstration:	LCD Display
Press [*] to enter the working mode.	
Press [1] to cancel the alarm under the disarming status.	
Press [#] to confirm the operation.	If the operation is successful,  If the operation is failed, 

2.1.8 Single-Zone Operation

Single-Zone Arming and Disarming

Function: The operation of control panel arming and disarming is the same. After the operation is completed, the arming status of the control panel will be changed (the status of arming will be exchanged into disarming), and vice versa.

Command: [User Code] + [Project] + [n] + [n] + [n] + [#]
([n] + [n] + [n] refer to the zone No..)

Canceling Single-Zone Alarm

Function: When the alarm is triggered, it can be cancelled by the keypad. The alarm can be cancelled both under the arming and disarming status. For the disarming status, the alarm can be cancelled without the user code.

Canceling Alarm under the Arming Status

Command: [User Code] + [*] + [Project] + [n] + [n] + [n] + [#]
([n] + [n] + [n] refer to the zone No..)

2.1.9 Alarm Output Alarm

Function: You can enable or disable the alarm output function by the alarm keypad.

Enabling Alarm Output

Command: [User Password] + [*] + [8] + [5] + [n] + [n] + [n] + [#]
 ([n] + [n] + [n] refer to the 3-digit alarm output channel No..)

Demonstration: E.g., the user password is 1234, and the alarm output channel No. is 001.	LCD Display
Press the user password: [1] [2] [3] [4].	
Press [*] to enter the working mode.	xxxx*85001
Enable the alarm output by pressing [8] [5].	
Press the alarm output channel No.: [0] [0] [1].	
Press [#] to confirm the operation.	If the operation is successful, Operation Succeeded
	If the operation is failed, Operation Failed

Disable Alarm Output

Command: [User Password] + [*] + [8] + [6] + [n] + [n] + [n] + [#]
 ([n] + [n] + [n] refer to the 3-digit alarm output channel No..)

Demonstration: E.g., the user password is 1234, and the alarm output channel No. is 001. The alarm output function of the alarm output channel No. 001 has been enabled.	LCD Display
Press the user password: [1] [2] [3] [4].	
Press [*] to enter the working mode.	xxxx*86001
Disable the alarm output by pressing [8] [6].	
Press the alarm output channel No.: [0] [0] [1].	
Press [#] to confirm the operation.	If the operation is successful, Operation Succeeded
	If the operation is failed, Operation Failed



- For the security control panel with bus extension module, up to 256 alarm output channels can be supported, and thus the value range of nnn is from 001 to 256.

2.1.10 Emergency Alarm

Press and hold the key for 3 seconds or more. The emergency alarm will be triggered after a double-beep sound.

2.1.11 Group Bypass

Group Bypass

Function: After a partition is conducted with group bypass, all the alarm devices in group-bypass supported zone of the partition will be blocked.

Command: [User Password] + [*] + [4] + [1] + [#]

Demonstration: E.g., the user password is 1234.	LCD Display
Press the user password: [1] [2] [3] [4].	
Press [*] to enter the working mode.	xxxx*41
Enable group bypass by pressing [4] [1].	
Press [#] to confirm the operation.	If the operation is successful, Operation Succeeded
	If the operation is failed, Operation Failed

Group Bypass Recovery

Function: After recovering the group bypass of a partition, all the alarm devices in group-bypass supported zone of the partition will be revalidated.

Command: [User Password] + [*] + [4] + [2] + [#]

Demonstration: E.g., the user password is 1234.	LCD Display
Press the user password: [1] [2] [3] [4].	
Press [*] to enter the working mode.	xxxx*42
Disable group bypass by pressing [4] [2].	
Press [#] to confirm the operation.	If the operation is successful, Operation Succeeded If the operation is failed, Operation Failed



- Group bypass operation and group bypass recovery operation are available to all group bypass supported zones in the partition.

2.1.12 System Status Query

Function: Press key to search the current system default information of the control panel.

In query mode, there are special meanings for the 8 indicators on the alarm keypad.

No.	Description	No.	Description
1	AC Power Loss	5	Keypad Disconnection
2	Low Battery	6	Network Disconnection
3	Tampering Alarm Enabling	7	Wireless Network Exception
4	Telephone Line Disconnection	8	Expansion Bus Exception

2.1.13 Changing User Password via Master Code

Function: You can change the user password of the keypad via the master code.

Command:

[Master Code] + [*] + [0] + [#]
 [User No.] + [#]
 [New Password] + [#]
 [New Password] + [#]

The user password will be changed by the above four steps.

Demonstration: E.g., the master code is 1234, the user No. Is 001, and the new user password is 5678.	LCD Display
Enter Password Changing Progress: [Master Code] + [*] + [0] + [#]	
Press the master code: [1] [2] [3] [4]. Press [*] to enter the working mode. Press [0] to enter the password changing progress. Press [#] to confirm the operation.	xxxx*0 Please Enter the User No.
Appoint the User: [User No.] + [#]	
Press the user No. whose password is to be changed: [0] [0] [1]. Press [#] to confirm the user.	XX Please Enter the New Password

Enter New Password: [New Password] + [#]	
Press the new password of the appointed user: [5] [6] [7] [8].	XXXX
Press [#] to confirm the operation.	Please Enter the New Password Again
Confirm New Password: [New Password] + [#]	
Press the new password of the appointed user again: [5] [6] [7] [8].	XXXX
Press [#] to confirm the new password.	

2.1.14 Adding/Deleting Keyfob

Adding Keyfob

Function: You can match the codes of the keyfob with ones of the control panel via the keypad.

1. Enter the code matching mode. If the partition No. is not set, the keyfob will be added to partition 1.

Command:

[User Password] + [*] + [9] + [1] + [Keyfob No.] + [#]

[User Password] + [*] + [9] + [1] + [Keyfob No.] + [Partition No.] + [#]

Demonstration: E.g., the user password is 1234, the keyfob No. is 01, and the partition No. is 08.	LCD Display
Press the user password: [1] [2] [3] [4].	
Press [*] to enter the working mode.	xxxx*9101
Press [9] [1] to enter the code matching mode.	
Enter the keyfob No.: [0] [1].	
Enter the partition.: [0] [8]	xxxx*910108
Press [#] to confirm the operation.	If the operation is successful, Operation Succeeded If the operation is failed, Operation Failed

2. Press any key of the keypad, and the code is matched. The keypad will exit the code matching mode automatically.

Deleting Appointed Code-Matched Keyfob

Function: You can delete an appointed keyfob which has matched the code with the control panel.

functions vary depending on the medel of the device.

- **Option1**

Command: [User Password] + [*] + [9] + [0] + [keyfob No.] + [#]

Demonstration: E.g., the user password is 1234, and the keyfob No. is 001.	LCD Display
Press the user password: [1] [2] [3] [4].	
Press [*] to enter the working mode.	
Enter the mode for deleting code matched keyfob by pressing [9] [0].	
Press the keyfob No.: [0] [0] [1].	
Press [#] to confirm the operation.	If the operation is successful, 
	If the operation is failed, 

● **Option2**

Command: **[Password] + [*] + [9] + [0] + [#]**

Only the installer and operator 1 can delete the detector.

Demonstration: E.g., the installer password is 012345	LCD Display
Enter the installer password:[1][2][3][4][5]	
Press [*] [9][0][#] to enter the deleting mode	

Press any key of the keyfob to delete the keyfob from the control panel.	If the operation is successful, Operation Succeeded
	If the operation is failed, Operation Failed
Press[*]+[#]to exit the registration mode.	

Deleting All Code-Matched keyfob

Function: You can delete all keyfobs which have matched code with the control panel.

Command: [User Password] + [*] + [9] + [2] + [#]

Demonstration: E.g., the user password is 1234.	LCD Display
Press the user password: [1] [2] [3] [4].	
Press [*] to enter the working mode.	xxxx*92
Enter the mode for deleting all code matched keyfobs by pressing [9] [2].	
Press [#] to confirm the operation.	If the operation is successful, Operation Succeeded
	If the operation is failed, Operation Failed

2.1.15 Adding/Deleting Card User

Function: You can conduct configurations for the card-swiping user.

Matching the Card No. with the Control Panel

1. Enter the matching mode

Command: [Master Code] + [Project] + [10] + [User No.] + [#]

Demonstration: E.g., the master code is 1234, and the user No. is 003.	LCD Display
Press the master code: [1] [2] [3] [4].	xxxxProject1003
Press [Project] to enter the project mode.	
Press [1] [0] to the mode for entering the user's card No..	
Press the user No.: [0] [0] [3].	
Press [#] to confirm the operation.	If the operation is successful, Matching...
Swipe the card.	If the operation is successful, Operation Succeeded
	If the operation is failed, Operation Failed

Deleting Appointed Matched Card

- Option 1

In the card deleting mode, you can delete the appointed card by swiping the card.

Command: [Master Code] + [Project] + [1] + [2] + [#]

Demonstration: E.g., the master code is 1234.	LCD Display
Press the master code: [1] [2] [3] [4].	xxxxProject12
Press [Project] to enter the project mode.	
Press [1] [2] to enter the deleting card mode.	
Press [#] to confirm the operation.	If the operation is successful, Deleting Card...
Swipe the card.	If the operation is successful, Operation Succeeded
	If the operation is failed, Operation Failed

● Option2

Command: [Master Code] + [Project] + [1] + [1] + [Card No.] + [#]

Demonstration: E.g., the master code is 1234, and the user No. is 001.	LCD Display
Press the master code: [1] [2] [3] [4].	
Press [Project] to enter the project mode.	xxxxProject111234567890
Enter the mode for deleting appointed matched card by pressing [1] [2] [3] [4] [5] [6] [7] [8] [9] [0]..	
Press [#] to confirm the operation.	If the operation is successful, Operation Succeeded If the operation is failed, Operation Failed

Deleting All Matched Card

Command: [Master Code] + [Project] + [1] + [5] + [User No.] + [#]

Demonstration: E.g., the master code is 1234, and the user No. is 001.	LCD Display
Press the master code: [1] [2] [3] [4].	xxxxProject15001
Press [Project] to enter the project mode.	
Enter the mode for deleting all matched cards by pressing [1] [5].	
Press the user No.: [0] [0] [1].	
Press [#] to confirm the operation.	If the operation is successful, Operation Succeeded
	If the operation is failed, Operation Failed

Exiting Card Matching (Card Deleting) Mode

Command: [*] + [#]

2.1.16 Adding/Deleting Wireless Detector

Function: While the wireless receiver is connected to the control panel, you can add or delete wireless detector to the control panel.

Only the installer and operator 1 can add or delete the wireless detector.

Adding Wireless Detector

Command: [Installer Password]+[*]+[95]+[Zone No.]+[#]

Demonstration: E.g., the installer password is 012345, and the zone No. is 005	LCD Display
Enter the installer password:[0][1][2][3][4][5]	
Press [*] [95][005][#] to enter the adding mode	xxxxxx*95005
Trigger the wireless detector to add the detector to the control panel.	If the operation is successful, Operation Succeeded If the operation is failed, Operation Failed
Press[*]+[#]to exit the registration mode.	

Deleting Wireless Detector

Command: [Installer Password]+[*]+[96]+[#]

Demonstration: E.g., the installer password is 012345	LCD Display
Enter the installer password:[0][1][2][3][4][5]	
Press [*] [96][#] to enter the deleting mode	xxxxxx*96
Trigger the wireless detector to delete the detector from	If the operation is successful,

the control panel.	Operation Succeeded
	If the operation is failed, Operation Failed
Press[*]+[#]to exit the registration mode.	

2.1.17 Deleting RS-485 Expander/Receiver from Control Panel

Function: The control panel will unregister the RS-485 expander. However, if the expander is still connected with the control panel, it will be re-registered after control panel rebooting.

Command: [Installer Password] + [*] + [Project] + [n] + [n] + [#]

Demonstration: E.g., the installer password is 012345, RS-485 address is 09.	LCD Display
Enter the installer password: [0] [1] [2] [3] [4] [5].	
Press [*] to enter the working mode.	
Press[Project].	
Enter[0] [9] as the address of the RS-485 expander	
Press [#] to confirm the operation.	If the operation is successful, 
	If the operation is failed, 

2.1.18 Control Panel Programming Operation

Function: The control panel can be configured via alarm keypad operation.

Entering Programming Mode

Command: [Installer Password] + [*] + [0] + [#]

Demonstration: E.g., the installer password is 012345.	LCD Display
Enter the installer password: [0] [1] [2] [3] [4] [5].	
Press [*] to enter the working mode.	xxxxxx*0
Press [0] to enter the programming mode of control panel.	
Press [#] to confirm the operation.	If the operation is successful, Operation Succeeded Programming... If the operation is failed, Operation Failed

Exiting Programming Mode

Command: [*] + [#]

2.1.19 Prompt Operation

Enabling/Disabling Key Tone

Function: You can enable or disable the key tone via the keypad.

Command: [*] + [5] + [1] + [#]

Disabling Fault Prompt

Function: You can disable the fault alarm prompt via the keypad. It will prompt a new tone if there is a new fault.

Command: [*] + [5] + [6] + [#]

2.1.20 LCD Backlight Control

LCD Backlight Time Control

Function: The duration of enabling LCD backlight can be configured via the keypad.

Command: [*] + [5] + [2] + [n] + [n] + [n] + [#]

Demonstration: E.g., the duration of enabling LCD backlight is 15 seconds.	LCD Display
Press [*] to enter the working mode.	
Enter the LCD backlight configuration mode by pressing [5] [2].	*52015
Pressing the backlight-on duration: [0] [1] [5]. Note: [0] [1] [5] means 15 seconds.	
Press [#] to confirm the operation.	If the operation is successful, Operation Succeeded
	If the operation is failed, Operation Failed



- [n][n][n] means the duration in which the backlight is on, and the value 999 means that the backlight is normally on.

LCD Backlight off

Function: You can disable the LCD backlight via the keypad.

Command: [*] + [8] + [#]

2.1.21 Language Switch (Chinese/English)

Function: You can switch the language (Chinese or English) via the keypad.

Display English

Command: [*] + [9] + [1] + [1] + [#]

Display Chinese

Command: [*] + [9] + [1] + [0] + [#]

2.1.22 Zone Testing

Enter the Testing Mode

Function: The zone testing function is used for keypad debugging.

Command: [Installer Password] + [*] + [6] + [0] + [#]

Demonstration: E.g., the user password is 1234.	LCD Display
Press the user password: [1] [2] [3] [4].	
Press [*] to enter the working mode.	xxxx*60
Press [6] [0] to enter the zone testing mode.	
Press [#] to confirm the operation.	If the operation is successful, Operation Succeeded
	If the operation is failed, Operation Failed

Exit the Testing Mode

Command: [Installer Password] + [*] + [6] + [2] + [#]



- The function of zone testing is only available under the status of disarming and non-fault of the zone. The system will do auto-arming in the zone testing mode without reporting any CID log. The siren will start warning after the alarm is triggered and stop warning if the alarm is dismissed.
- If the zone is disarmed, it will exit the zone testing mode automatically.
- The function of exiting the testing mode is only available for security control panel in the version of 2.3 and above.

2.1.23 Test Report Manually Relaying

Function: You can relay test report manually. One operation generates one test report. It is used to test the communication between the control panel and center after installing the system or during the inspection.

Command: [User Password] + [*] + [6] + [1] + [#]

Demonstration: E.g., the user password is 1234.	LCD Display
Press the user password: [1] [2] [3] [4].	
Press [*] to enter the working mode.	xxxx*61
Relay test report manually by pressing [6] [1].	
Press [#] to confirm the operation.	If the operation is successful, Operation Succeeded
	If the operation is failed, Operation Failed

2.1.24 Project Mode

Function: You can enter the project mode, and configure the control panel via the keypad.

Entering Project Mode

Command: [User Password] + [Project] + [9] + [0] + [n] + [#]

Demonstration: E.g., the user password is 1234, and you want to configure the telephone uploading mode.	LCD Display
Press the user password: [1] [2] [3] [4].	
Press the project key Project .	
Press the control panel debugging command: [9] [0].	xxxxProject*901
Press the uploading mode: [n]. Note: Different values of [n] refer to different uploading modes.	
Press [#] to confirm the operation.	If the operation is successful, Operation Succeeded
	If the operation is failed, Operation Failed

Exiting Project Mode

There are 3 options for exiting the project mode:

- Hold and press the project key [Project].
- Press [Status].

- Press [*] [#].



- When the value of n is 1 or 2, it means telephone 1 or 2.
- When the value of n is 3 or 4, it means network 1 or 2.
- When the value of n is 5 or 6, it means GPRS center 1 or 2.

2.1.25 Control Panel Soft Recovery

Function: You can do the control panel soft recovery operation via the keypad. There is a default value of the master code, which can control all partitions and be modified.

Command: [Master Code] + [*] + [6] + [8] + [#]

Demonstration: E.g., the master code is 1234.	LCD Display
Press the master code: [1] [2] [3] [4].	
Press [*] to enter the working mode.	xxxx*68
Press [6] [8] to do the control panel soft recovery operation.	
Press [#] to confirm the operation.	If the operation is successful, Operation Succeeded
	If the operation is failed, Operation Failed



- All unissued CID logs will not be reissued. Newly generated report will be issued after system recovery.
- The timer of the test report will not be cleared, and will remain the value before recovery till the recovery processes being completed.

2.1.26 Auto-Search

Function: You can enter the auto-searching mode of the global keypad via the alarm keypad.

This function is only valid for bus security control panel.

Command: [Installer Password] + [*] + [8] + [2] + [#]

Demonstration: E.g., the installer password is 012345.	LCD Display
Press the installer password: [0] [1] [2] [3] [4] [5].	
Press [*] to enter the working mode.	xxxxx*82
Press [8] [2] to enter the auto-searching mode of the global keypad.	
Press [#] to confirm the operation.	If the operation is successful, Operation Succeeded
	If the operation is failed, Operation Failed

2.1.27 Auto-Registration

Function: You can enter the auto-registration mode of the global keypad via the alarm keypad. This function is only valid for bus security control panel.

Command: [Installer Password] + [*] + [8] + [3] + [#]

Demonstration: E.g., the installer password is 012345.	LCD Display
Press the installer password: [0] [1] [2] [3] [4] [5].	
Press [*] to enter the working mode.	xxxxx*83
Press [8] [3] to enter the auto-registration mode of the global keypad.	
Press [#] to confirm the operation.	If the operation is successful, Operation Succeeded
	If the operation is failed, Operation Failed

2.1.28 Signal Strength Query

Function: You can view the GPRS wireless signal strength via the alarm keypad.

Command: [*] + [2] + [0] + [#]



If the network security control panel in version 2.3.3 and above is used cooperatively with keypad supports signal strength query function, you can only check the signal strength with pressing the status key on the keypad.

2.1.29 Keypad Locking and Unlocking

If a user failed to operate for five times, the keypad will be locked for 30 seconds. During the lock duration, the keypad backlight blinks and all of the key operations are invalid. The keypad will be unlocked after 30 seconds.

Chapter 3 Trouble Shooting

Q: What is the function of Project button  of LCD keypad?

A: Project button  has button switch function besides normal instruction button, such as: When sensor or module is abnormal, press and hold the **Project** button to switch to other interfaces manually. When the sensor/module is abnormal or the keypad, press the **Project** button once and the current display interface will be paused for 20s; press it again to switch to the next LCD screen interface.

Q: How to manually switch to other abnormal interfaces when the LCD keypad displays sensor/module is abnormal?

A:

1. Among the LCD keypad abnormal display interfaces, display interface of the sensor alarm, module abnormal display interface are of first priority; the sensor abnormal interface is of second priority, sensor bypass interface is of third priority.
2. If interfaces of different priority exist at same time, the system automatically displays the interface of first priority.
3. The switch between interfaces of same priority: there are two ways to switch display interface of the sensor alarm to sensor off-line display interface.
 - 1) System auto-switch: The system will refresh automatically. If the current display interface is accomplished and other interfaces of same priority exist, system will auto switch to other interfaces.
 - 2) Manually switch: Press the **Project** button continuously until it switches to the interface to display.
4. Switch between interfaces of different priority: from sensor alarm interface to sensor bypass interface:
Press and hold the **Project** button for multiple times until it switches to the interface to display.

Q: What is the meaning of LCD keypad Arm/Disarm, Operate indicators?

A: LCD system keypad indicator:

1. The meaning of Arm/Disarm indicator (Red and Green) is shown below:

Working Status	Indicator Status	Working Status	Indicator Status
Enter programming	Green, Blink	Parameters Initialization	Green, Blink
System Arming	Red, Normally On	System Disarming	Green, Normally On

2. The meaning of Operate indicator (Green) is shown below:

Working Status	Indicator Status	Working Status	Indicator Status
----------------	------------------	----------------	------------------

Enter programming	Green, Blink	Parameters Initialization	Green, Blink
System Abnormal	Green, Blink	System Normal	Green, Normally On

Q: What are the steps of LED keypad to program the control panel?

A:

1. In overall keypad programming mode, the program command is: {installer password} + {*} + {0} + {#};
2. To view the configuring operation for alarm control panel, please refer to alarm keypad configuring code;

For example: program user password 2#, the password has arm/disarm function, does not send arming report, does not allow bypass, password is 5678, and the program code is shown as follow:

Command Code	Arming Type	Password	End
{0}{0}{2}	{3}	{5}{6}{7}{8}	{#}

3. Set program command

There are 2 alert sound of correct or 5 alert sound of error and corresponding OSD notices after each program command is over. When 5 alert sound of error is heard and the screen displays **Operation Failed**, there is error in program command setting and the user need to reset correct program command. When 2 alert sound of correct is heard and the screen displays **Operation Succeeded** but the setting parameters are not the parameters needed, you can operate according to program command once again.

4. Exit program mode, the program command is: {*} + {#}.

Q: What is the meaning of LED keypad Arm/Disarm, Operate, Camera indicators?

A:

LED alarm keypad **Arm/Disarm** indicator:

Working Status	Indicator Status	Working Status	Indicator Status
Armed	Red, Normally On	Enter Programming	Green, Blink
Disarmed	Green, Normally On	Main Operator Change Password	Green, Blink

LED alarm keypad **Operate** indicator:

Working Status	Indicator Status	Working Status	Indicator Status
Normal	Green, Normally On	Keypad Not Logged In	Red, Blink
System Error	Orange, Blink	Enter Programming	Green, Blink
Project	Red, Normally On	Change Password	Green. Blink

LED alarm keypad **Camera** indicator:

Working Status	Indicator Status	Working Status	Indicator Status
----------------	------------------	----------------	------------------

Sensor Normal	Off	Sensor Error	Red, Normally On
Sensor Alarm	Red, Blink	Sensor Bypass	Green, Normally On

LED keypad **Camera** indicator under **Project Mode**:

No.	Description	No.	Description
1	Off-hook	5	Send CID Report
2	Dial	6	Receive Alert Sound
3	Alarm Connector Disconnection	7	Control Panel Off-hook
4	Receive the Hand-shack Sound	8	Alarm Connector On-hook

LED keypad **Camera** indicator under **Status Mode**:

No.	Description	No.	Description
1	AC Power off	5	Keypad Off-line
2	Battery Low Voltage	6	Network Cable Off-line
3	Control Panel Tamper-proof On	7	No SIM Card
4	ADSL Cable Off-line	8	Reserved

Q: What is the meaning of LED keypad alert sound?

A: The meaning of LED keypad alert sound is as follows:

No.	Keypad Alert Sound	Description
1	1 Sound	Keypad Prompt, Error Operating Prompt
2	2 Sound	Correctly answered, report uploading succeeded
3	5 Sound	Incorrectly answered, report uploading failed in 60s
4	Last for 2s	Error Prompt
5	Intermittent Slow Sound, Continuously	Enter/Exit Delay
6	Intermittent Rapid Sound, Continuously	Enter/Exit Delay, 10s Left
7	Rapid Beep	Sensor Alarm, Keypad not logged in
8	3 Long 2 Short	Keypad Tamper-proof On

Q: How to remove alarm memory?

A: There are two situations of removing alarm memory as shown below:

- 1) Under disarming mode: Press {*} + {1} + {#} or {Password} + {*} + {1} + {#}.
- 2) Under arming mode: Press {Password} + {*} + {1} + {#}.

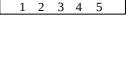
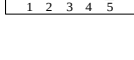
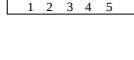
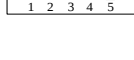
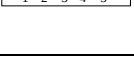
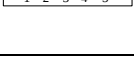
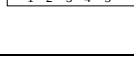
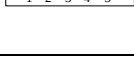
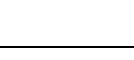
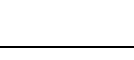
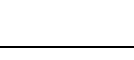
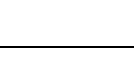
Q: How to input hexadecimal number?

A: Input hexadecimal number with {*} button and number button {0} ~ {5}.

Conversion Table	
Hexadecimal Number	Corresponding Key
A	*0
B	*1
C	*2
D	*3
E	*4
F	*5

Q: How to set LED keypad address?

A: Set LED keypad address with the DIP address of keypad.

DIP	Ad d.	DIP	Ad d.	DIP	Ad d.	DIP	Ad d.
	0		1		2		3
	4		5		6		7
	8		9		10		11
	12		13		14		15
	16		17		18		19
	20		21		22		23
	24		25		26		27
	28		29		30		31

Q: Why is it needed to input E at the end of keypad configured phone number?

A: Control panel can process phone number with 31 characters. Input number with 16 characters in each command address so that 2 addresses are needed for storage phone number. However, the phone numbers are different in every place so the control panel needs a special data bit to check if the phone number is complete. Character E ({*}{4}) is for checking if the phone number is complete.

For example: The first Alarm connector phone number is 0571-88075998, user can input the following command:

Command Address 460

0	5	7	1	8	8	0	7	5	9	9	8	E			
---	---	---	---	---	---	---	---	---	---	---	---	---	--	--	--

For example: The first alarm connector phone number is 17951-88075998, user can input the following command:

Command Address 460

1	7	9	5	1	F	F	F	8	8	0	7	5	9	9	8
---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---

Command Address 461

E															
---	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--

For example: The first alarm connector phone number is 0571-88075998-8888, user can input the following command:

Command Address 460

0	5	7	1	8	8	0	7	5	9	9	8	F	F	F	8
---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---

Command Address 461

8	8	8	E												
---	---	---	---	--	--	--	--	--	--	--	--	--	--	--	--

Q: What are notes for setting password?

A: The password for each operator should be different; otherwise the setting will be failed. For example, if the password of operator 1 is set to be 1234 hen password of operator 2 is also 1234, it will prompt to be error. In addition, the password of each operator should be different from the control panel duress code of other operators; otherwise the setting will be failed. For example if the password of operator No.3 is 3456 and the password of operator No.4 is set to be 3455 or 3457, it will prompt to be error.

Q: What are notes for setting duress code?

A:

- The description of duress code is as follow:
Input duress code when the user is under duress, it will work as if the user inputs valid password, but the system will auto-upload the alarm information. For example when a criminal forces the user to disarm the alarm, user can input the control panel duress code to disarm the system and upload the alarm information to the center automatically and off the criminal's guard.
- Please note when setting duress code: duress code is the valid password with its last number ± 1 .
For example: Valid Password: 1234, Duress Code: 1235 and 1233.
For example: Valid Password: 1230, Duress Code: 1231 and 1239.
For example: Valid Password: 1239, Duress Code: 1230 and 1238.
- Please take the following notes while using duress code:
While using duress code, it is needed to enable duress report firstly, as to program the control panel duress report and delay. The programming command to enable **Control Panel Duress Report** is as follow:

Command Address	{4}{6}{4}
Enter Delay	{3}
Exit Delay	{6}
Siren Working Duration	{2}
Control Panel Duress Report	{1}
End	{#}

Q: How to solve the problem of two LED keypad address being same?

A: When two LED keypad addresses are the same, the situation of two keypads demanding bus communication at the same time will appear and cause conflict. The only solution is to remove one keypad and reset the other keypad to an unused legal address. Restore the control panel by processing program code ({Main Operator}{*}{6}{8}{#})

Q: Why there is no Disarming Report?

A: To make sure the user has permission of **Disarming Report**, please refer to Operator Configuration.

Q: What to do if the user cannot disarm after arming the system?

A: There are two different situations:

1. The user does not have permission to disarm, please contact the administrator.
2. Take the follow instructions when there is only one user in the system without permission to disarm;
 - 1) Initialize the hardware, restore the password of operator, main operator password and permission, and then disarm with main operator. The initialization password of operator is: 012345, the initialization password of main operator is: 1234, the permission is: arm/disarm. There is arm/disarm report and bypass is permitted. Please refer to FAQ of hardware initialization for more information about hardware initialization.
 - 2) The command code to restore factory parameters: {Password of operator} + {*} + {8} + {9} + {#}.

This method is not recommended because it will initialize all programming contents.

Q: How to do the hardware initialization?

A: Control panel hardware initialization only initializes operator password: 012345 and main operator password: 1234, main operator permission is arm/disarm. There are arming/disarming report and allows bypass.

Steps:

- 1) Power off the control panel and open the cover;
- 2) Short the restore switch of the control panel with shorting nut or connection cables;
- 3) Power on the control panel and power off it 10s later;
- 4) Please remove the shorting nut or connection cable on the restore switch;
- 5) Cover the control panel well;
- 6) Recharge the control panel;

Q: Why is there no response for keypad operational order but alert sound of error 10s later?

A: It may be caused by follow situations:

- 1) Poor contact of the connection cable between LED keypad and the control panel, please check if the cable is normal;
- 2) The LED keypad is considered as off-line in the communication. If there is other keypad operates normal, process program command {Main Operator Password} + {*} + {6} + {8} + {#} to restore it or power off the control panel and reboot.

Q: How does the control panel detect alternating current, storage battery, control panel tamper-proof and ADSL cable?

A: The status of the control panel detection is as follows:

- 1) The control panel detects AC power supply status once in a while;
- 2) The control panel detects storage battery status once in a while;

- 3) The control panel detects tamper-proof status once in a while;
- 4) The control panel detects ADSL cable status once in a while.

Q: The network is disconnected.

A:

- 1) Please check if the network status indicator of the board is normal on;
- 2) If the network status indicator is not normal on, please check if the network cable connection is normal.

Q: What if the client cannot log in the device?

A: Troubleshoot according to the prompt.

Please check if the device IP Address and Port No. are correct. The device default IP Address is: 192.0.0.64, and the Port No. is: 8000.

Please check if the user name and password to log in the control panel are correct. The default user name is: admin, the word is: 12345.

Q: Why the control panel cannot communicate with the alarm center group?

A: The configuration of control panel communicating with the alarm center group is as follows:

- 1) If the user communicates with the center via LAN: Configure parameters such as monitoring IP, Port No., User Account and Communication Protocols of the remote alarm center in **Remote Configuration-> Others-> Network Center Configuration**;
- 2) If the user communicates via dialing: Configure parameters such as phone number, receiver identity account and communication protocols of the remote alarm center in **Remote Configuration-> Others-> Dialing Parameter Setting**;
- 3) If the user communicates via Wi-Fi configure APN Name and Parameters of remote alarm center in **Remote Configuration-> Others-> WIFI Parameter Setting**. The parameters include monitoring IP, Port No., User Account and Communication Protocol, etc.;
- 4) After setting dialing parameters, LAN parameters and WIFI parameters, configure the uploading mode in **Remote Configuration-> Uploading Mode Configuration**

Q: How to configure the communication way of control panel and alarm center group?

A:

1. Center uploading mode supports at most 6 center groups, each center group divides in main channel and 3 backup channels;
2. If the center group is enabled. Enable the center group before the use.
3. For example: The control panel needs to upload report to network alarm center 1 and dialing alarm center1 and network alarm center 1 needs to upload report to network alarm center 2 when it fails to upload it. The configurations are as follows:
 - 1) Enable Group1 and Group2;
 - 2) In the uploading mode configuration list, select N1 in center group 1 main channel, select N2 in backup channel 1, select T1 in Center group2 main channel.
 - 3) Click **Apply**.

If the client is not opened, the user can realize communication with alarm center by programming with keypad. For detailed operations please refer to program command 611~634.

Q: Why cannot it upload report and control after WIFI is enabled?

A: The follow situations may lead to WIWI connection failure:

- 1) No SIM Card or poor contact;
- 2) 3G module antenna is not normally connected or with poor signal;
- 3) WIFI parameter setting is incorrect;
- 4) SIM Card has no enough tariffs.



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