Video Alarm Control Panel

User's Manual

V1.0.1

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Cybersecurity Recommendations

Mandatory actions to be taken towards cybersecurity

1. Change Passwords and Use Strong Passwords:

The number one reason systems get “hacked” is due to having weak or default passwords. It is recommended to change default passwords immediately and choose a strong password whenever possible. A strong password should be made up of at least 8 characters and a combination of special characters, numbers, and upper and lower case letters.

2. Update Firmware

As is standard procedure in the tech-industry, we recommend keeping NVR, DVR, and IP camera firmware up-to-date to ensure the system is current with the latest security patches and fixes.

“Nice to have” recommendations to improve your network security

1. Change Passwords Regularly

Regularly change the credentials to your devices to help ensure that only authorized users are able to access the system.

2. Change Default HTTP and TCP Ports:

● Change default HTTP and TCP ports for systems. These are the two ports used to communicate and to view video feeds remotely.

● These ports can be changed to any set of numbers between 1025-65535. Avoiding the default ports reduces the risk of outsiders being able to guess which ports you are using.

3. Enable HTTPS/SSL:

Set up an SSL Certificate to enable HTTPS. This will encrypt all communication between your devices and recorder.

4. Enable IP Filter:

Enabling your IP filter will prevent everyone, except those with specified IP addresses, from accessing the system.

5. Change ONVIF Password:

On older IP Camera firmware, the ONVIF password does not change when you change the system’s credentials. You will need to either update the camera’s firmware to the latest revision or manually change the ONVIF password.

6. Forward Only Ports You Need:

● Only forward the HTTP and TCP ports that you need to use. Do not forward a huge range of numbers to the device. Do not DMZ the device's IP address.
● You do not need to forward any ports for individual cameras if they are all connected to a recorder on site; just the NVR is needed.

7. Disable Auto-Login on SmartPSS:
Those using SmartPSS to view their system and on a computer that is used by multiple people should disable auto-login. This adds a layer of security to prevent users without the appropriate credentials from accessing the system.

8. Use a Different Username and Password for SmartPSS:
In the event that your social media, bank, email, etc. account is compromised, you would not want someone collecting those passwords and trying them out on your video surveillance system. Using a different username and password for your security system will make it more difficult for someone to guess their way into your system.

9. Limit Features of Guest Accounts:
If your system is set up for multiple users, ensure that each user only has rights to features and functions they need to use to perform their job.

10. UPnP:
● UPnP will automatically try to forward ports in your router or modem. Normally this would be a good thing. However, if your system automatically forwards the ports and you leave the credentials defaulted, you may end up with unwanted visitors.
● If you manually forwarded the HTTP and TCP ports in your router/modem, this feature should be turned off regardless. Disabling UPnP is recommended when the function is not used in real applications.

11. SNMP:
Disable SNMP if you are not using it. If you are using SNMP, you should do so only temporarily, for tracing and testing purposes only.

12. Multicast:
Multicast is used to share video streams between two recorders. Currently there are no known issues involving Multicast, but if you are not using this feature, deactivation can enhance your network security.

13. Check the Log:
If you suspect that someone has gained unauthorized access to your system, you can check the system log. The system log will show you which IP addresses were used to login to your system and what was accessed.

14. Physically Lock Down the Device:

Ideally, you want to prevent any unauthorized physical access to your system. The best way to achieve this is to install the recorder in a lockbox, locking server rack, or in a room that is behind a lock and key.

15. Connect IP Cameras to the PoE Ports on the Back of an NVR:

Cameras connected to the PoE ports on the back of an NVR are isolated from the outside world and cannot be accessed directly.

16. Isolate NVR and IP Camera Network

The network your NVR and IP camera resides on should not be the same network as your public computer network. This will prevent any visitors or unwanted guests from getting access to the same network the security system needs in order to function properly.

Overview

This document elaborates device structure, installation and system functional operation of video alarm control panel.

Symbol Definition

The following symbols may appear in this document. And their meanings are as follows:

Symbol	Note
Danger	It indicates a potentially hazardous situation which, if not avoided, could result in death or serious injury.
Warning	It indicates a moderate or low level of potential danger which, if not avoided, could result in minor or moderate injury.
Caution	It indicates a potential risk that, if ignored, could result in damage to device, loss of data, degraded performance, or unpredictable results.
Anti-static	It means electrostatic-sensitive device.
Protection against electric shock	It means high-voltage danger.
Laser radiation	It means intensive laser radiation.
Tip	It means that it can help you to solve some problems or save your time.
Note	It means the additional information, which is to emphasize or supplement.

Important Safeguards and Warnings

The following description is the correct application method of the device. Please read the manual carefully before use, in order to prevent danger and property loss. Strictly conform to the manual during application and keep it properly after reading.

Operating Requirement

- Please modify default password timely after device deployment, in order not to be embezzled.
- Please don’t place and install the device in an area exposed to direct sunlight or near heat generating device.
- Please don’t install the device in a humid, dusty or fuliginous area.
- Please keep its horizontal installation, or install it at stable places, and prevent it from falling.
- Please don’t drip or splash liquids onto the device; don’t put on the device anything filled with liquids, in order to prevent liquids from flowing into the device.
- Please install the device at well-ventilated places; don’t block its ventilation opening.
- Use the device only within rated input and output range.
- Please don’t dismantle the device arbitrarily.
- Please transport, use and store the device within allowed humidity and temperature range.

Power Requirement

- Please make sure to use batteries according to requirements; otherwise, it may result in fire, explosion or burning risks of batteries!
- To replace batteries, only the same type of batteries can be used!
- The product shall use electric cables (power cables) recommended by this area, which shall be used within its rated specification.
- Please use power supply that meets SELV (safety extra low voltage) requirements, and supply power with rated voltage that conforms to Limited Power Source in IEC60950-1. For specific power supply requirements, please refer to device labels.
- Products with category I structure shall be connected to grid power output socket, which is equipped with protective grounding.
- If power plug or appliance coupler is a disconnecting device, please keep its convenient operation.

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1 Overview

1.1 Product Introduction

Video alarm control panel integrates alarm information acquisition, alarm output and linkage control, telephone alarm, audio-video acquisition encoding, recording playback, voice message and video output. With strong stability and reliability, it applies to communities, villas and shops.

1.2 Product Function

Its main functions are as follows:

- Support 100M network.
- 32 wireless zones, 2 wired zones, 9 remote controls and wireless emergency buttons, 1 NO relay output, 4 wireless sirens, 1 wired siren (12v/500mA), 1 built-in loudspeaker, 1 off-wall tamper, 1 auxiliary power supply (12V/500mA).
- 4-channel D1 IPCs added.
- Off-wall tamper alarm and low battery alarm.
- Report alarm and fault event through SMS.
- Arm and disarm with ID card.
- Leave and play voice message.
- Max. 128G SD card to save alarm recording.
- USB flash disk to backup recording, import and export configuration.
- 3.7V/1900mAh lithium battery power supply when main power is off.
- Support CID standard protocol.
- 4.3'' TFT color screen supports video preview and playback, alarm and fault events view.
- Restore factory settings.

1.3 Typical Network

Video alarm control panel combines with IPC, detector, siren, APP and alarm center, and thus forms an omnidirectional arm and disarm alarm system, as shown in Figure 1-1.

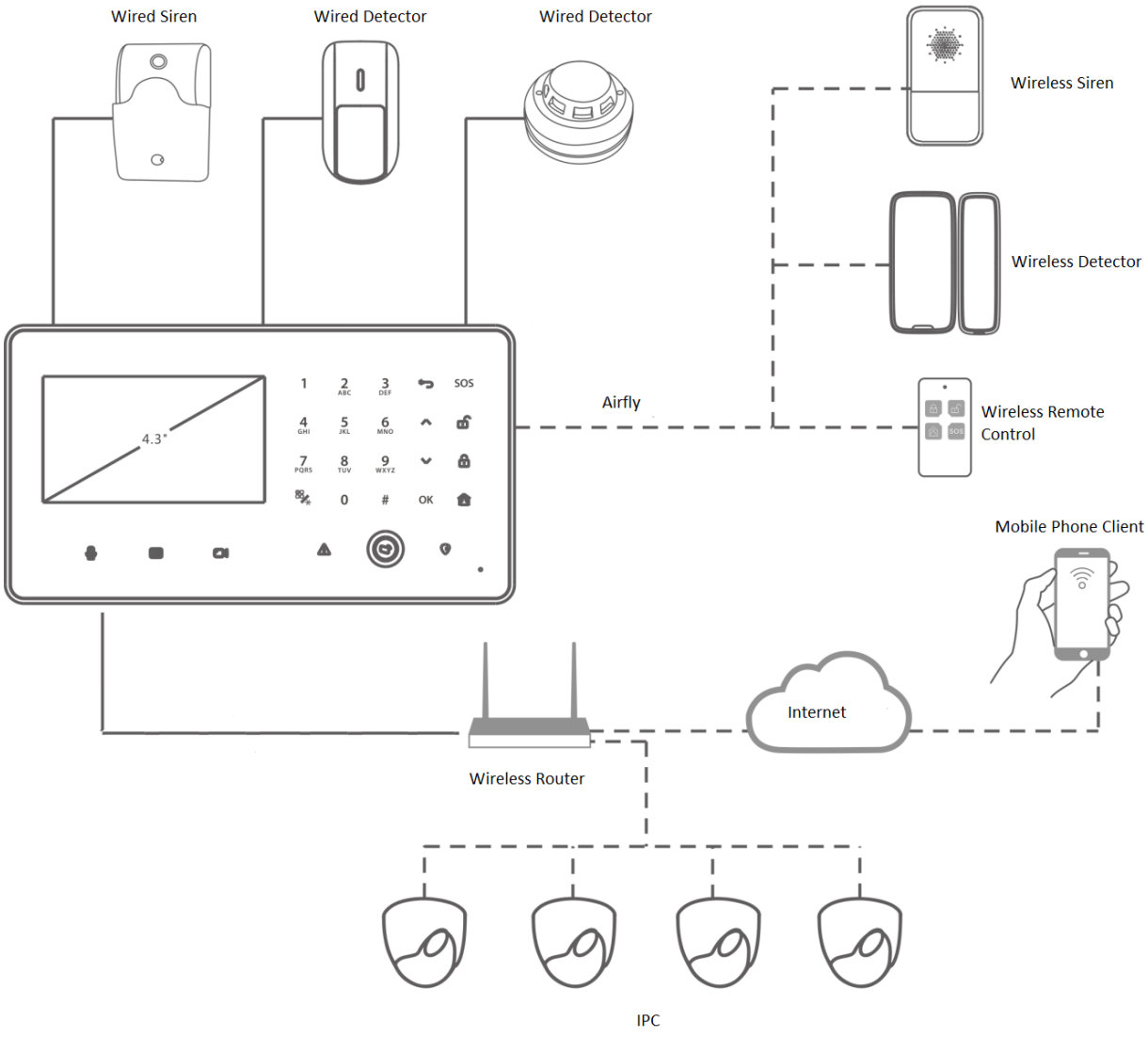

Wired Siren
Wired Detector
Wired Detector
Wireless Siren
Wireless Detector
Airfly
Wireless Remote Control
Mobile Phone Client
Internet
Wireless Router
IPC

Figure 1-1

2 Device Structure

2.1 Structure Dimension

External dimension of the device is shown in Figure 2-1 and Figure 2-2. The unit is mm.

Figure 2-1

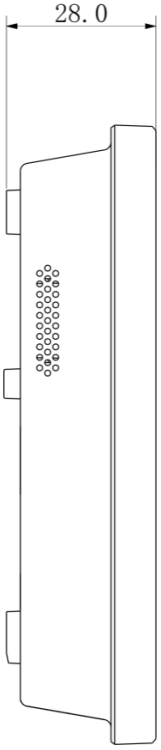


Figure 2-2

2.2 Front Panel

Front panel is shown in Figure 2-3. For keys and icons, please refer to Table 2-1.

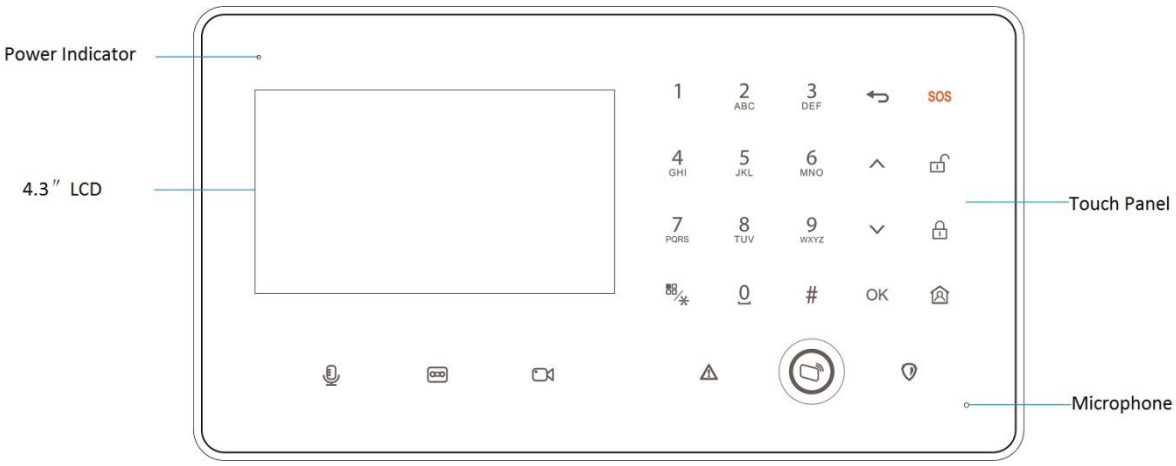


Figure 2-3

Key or Icon	Description
0~9 A~Z	● Enter number 0~9, page up/down. ● Enter English letters A~Z and a~z. In homepage, press [1] to customize arm quickly; press [2] to view failure alarm info; press [3] to view zone alarm info.
* | ⊞	● Return to homepage. ● Switch the input method.
#	Enter point (.).
⮌	● Return to previous menu. ● Delete info. ● Exit recording playback/video preview interface.
∧	Move up.
∨	Move down.
OK	Confirm.
SOS	Press this key for 3s, to give an emergency alarm.
🔓	Disarm.
🔒	Away arm.
🏠	Stay arm.
🎙	Long press it to record audio, up to 30s each time. Save it in system.
📼	Press it once, to play the last recording.
📹	Press it to preview video. Then, press [∧] or [∨] to switch the channel.
⚠	The indicator turns on in case of detector offline or main power off.

Key or Icon	Description
	Red light on during arm.
	• Away arm and disarm by swiping a registered card. • Red light on when there is an alarm.

Table 2-1

2.3 Rear Panel

Rear panel includes battery box and all kinds of ports, as shown in Figure 2-4. Please refer to Table 2-2 for details.

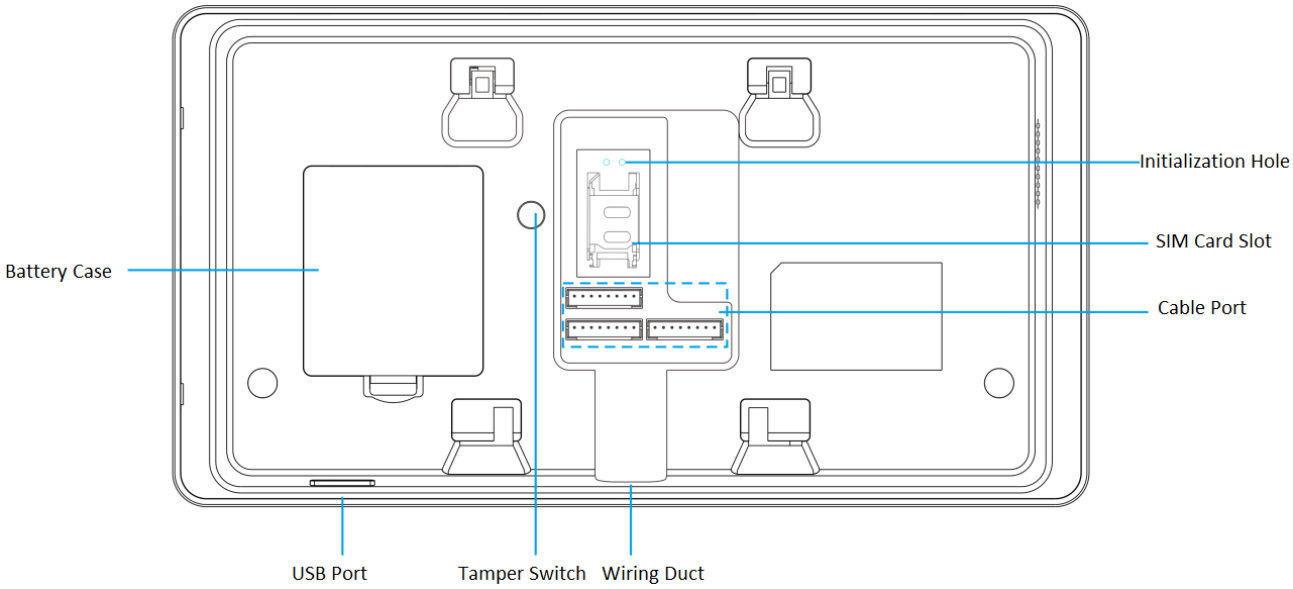


Figure 2-4

Port/slot	Description
Battery Case	Install 1900mAh battery; provide emergency power when 12V power supply fails. Please refer to “3.3 Battery Installation” for details.
USB Port	USB port connects storage device to backup linkage video in event info.
Tamper Switch	Prevent individuals from dismantling the device.
Wiring Duct	After arrangement, cables go out of wiring duct.
Cable Port	Please refer to Figure 2-5 for mark of every pin. Detailed descriptions are as follows: • PWR: 12V power input port. • AUX: 12V auxiliary power output. • GND: ground. • Z1/2: two-channel wired zone input. • RING-O/TIP-O: telephone line port. • NO/COM: 1-channel relay alarm output. • BELL: wired siren output.

Port/slot	Description
	● RING-I/TIP-I: telephone port. ● 485-A/485-B: 485 device port. ● LAN: network port.
SIM Card Slot	Support SIM cards of local operators.
Initialization Hole	Insert both ends of the cable into two holes for about 5s, so as to restore factory settings.

Table 2-2

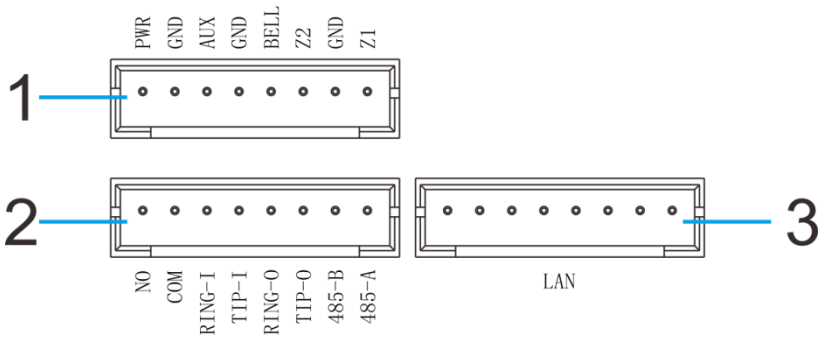


Figure 2-5

3 Installation

3.1 SD Card Installation

This device is able to install maximum 128G SD card, in order to save alarm recordings.

Step 1 Open battery cover and take out the battery.

Step 2 Push SD card into the slot in accordance with arrow direction in Figure 3-1.

Note

SD card can only be installed and dismantled when the power is off. To dismantle SD card, press it inward a bit, so SD card will pop up slightly and can be taken out with a tool.

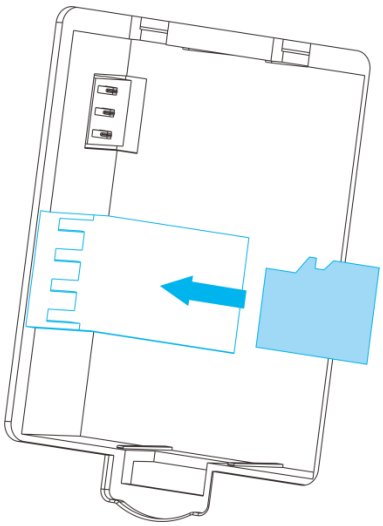


Figure 3-1

3.2 SIM Card Installation

This device supports SIM card, in order to report alarm and fault events through short message.

Step 1 Push slot cover toward cable port, flip it up and open the slot cover.

Step 2 Insert SIM card into the slot in accordance with arrow direction in Figure 3-2.

Step 3 Put back slot cover, and push it forward to fix SIM card.

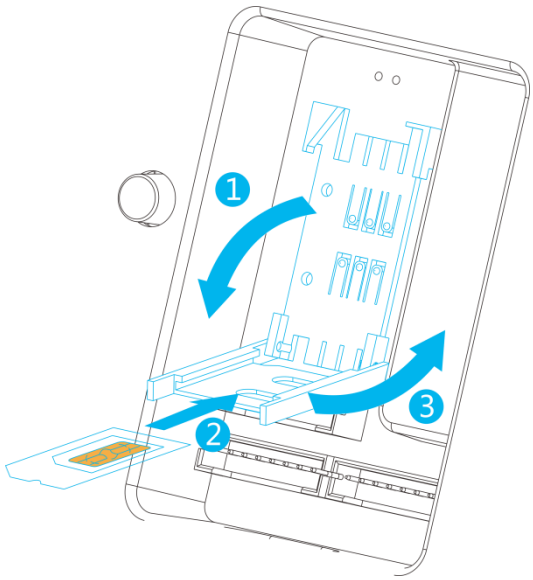


Figure 3-2

3.3 Battery Installation

This device installs 1900mAh lithium battery, provides emergency power when 12V power supply fails and thus ensures its normal operation. The device will be rebooted 3 minutes after 12V power supply is connected again, so as to ensure normal use of all functions.

Note

Power supply of lithium battery is as follows:

- Some modules with relatively high power consumption cannot work normally, including IC/ID card(arm and disarm is only realized by touching the keys), USB HUB (WIFI and USB disk), local 1-channel relay alarm output, RS485 communications, voice input, audio output, local 12V auxiliary power and siren output.
- Key backlight becomes dark.

Step 1 Put the battery into battery box in accordance with arrow direction in Figure 3-3.

Step 2 Close the cover in accordance with arrow direction in the figure.

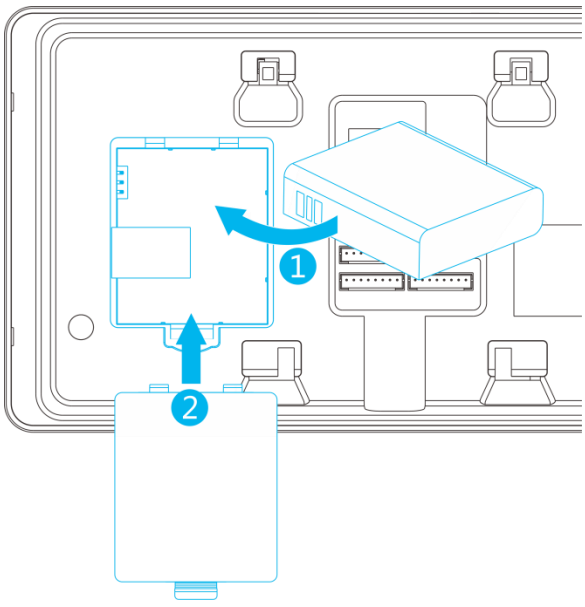


Figure 3-3

3.4 Cable Installation

This device provides cable port to connect 12V power, wired detector, wired siren, wired telephone and alarm output device.

Step 1 Insert cable into corresponding pin header socket.

Step 2 Neaten all cables and lead them out of the wiring duct.

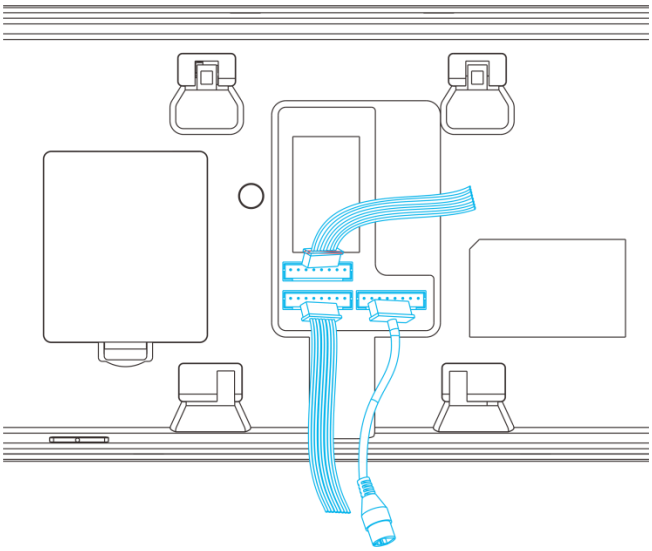


Figure 3-4

3.5 Panel Installation

This device adopts wall installation. According to different scenes, it consists of 86 box installation and non-86 box installation.

3.5.1 86 Box Installation

Step 1 Lock installation bracket at fixing hole of 86 box with screw A, so as to fix bracket on the wall.

Step 2 Hang the device on the hook of installation bracket in accordance with arrow direction in Figure 3-5.

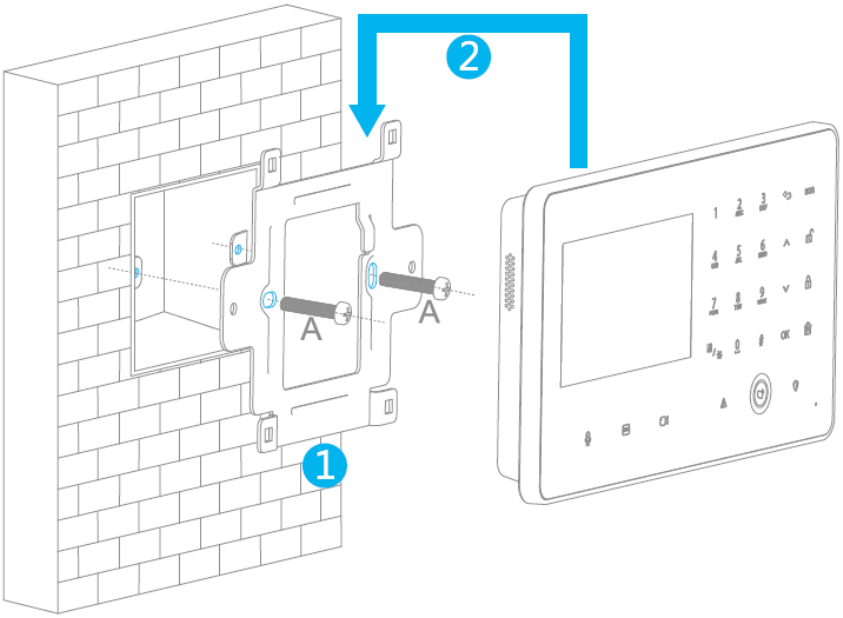


Figure 3-5

3.5.2 Non-86 Box Installation

Step 1 Open holes on wall in accordance with position of screw B of bracket, and embed expansion bolts.

Step 2 Fix installation bracket directly on wall with screw B.

Step 3 Hang the device on the hook of installation bracket in accordance with arrow direction in Figure 3-6.

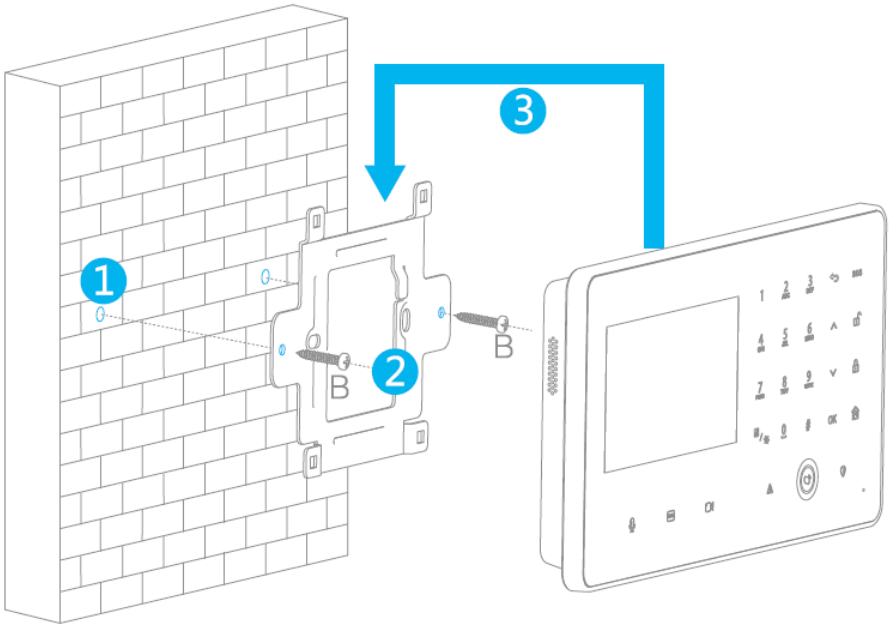


Figure 3-6

4 Operation Instruction

4.1 Password Setting

4.1.1 First Login

For security reason, please set password at first time login, as shown in Figure 4-1.

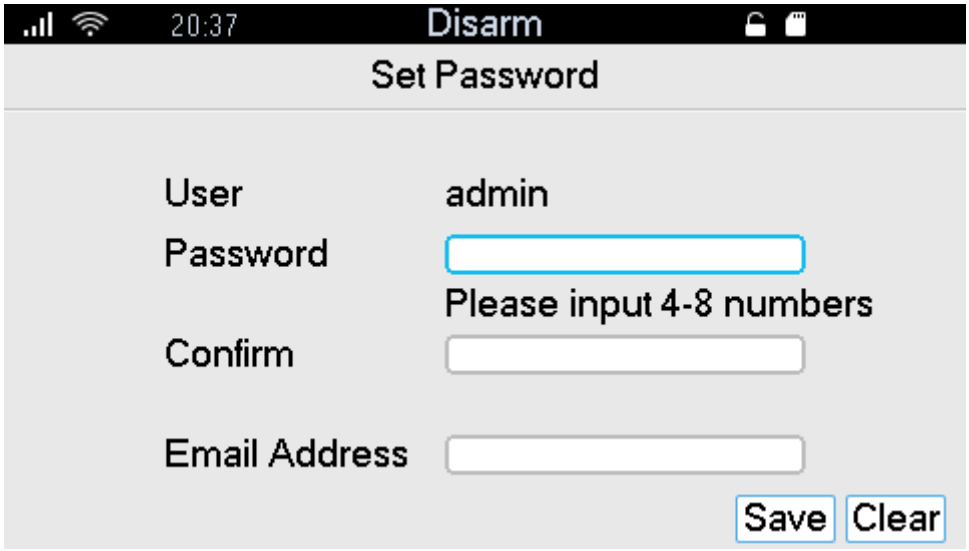


Figure 4-1

Step 1 Press [△] or [▽] to select text box, and press numeric key to input “Password” and “Confirm”.

Note

In case of wrong input, press [⏎], or press [△] or [▽], select “Clear” to clear the inputted content and input again.

Step 2 Press [△] or [▽] to select “Save”. Then, press [OK] to enter the homepage.

4.1.2 Not First Login

After login, modify password in “System→ Password”.

Step 1 In the homepage, press [△] or [▽], select “System” and press [OK].

Step 2 Press [△] or [▽], select “Password” and press [OK].

The interface is shown in Figure 4-2.

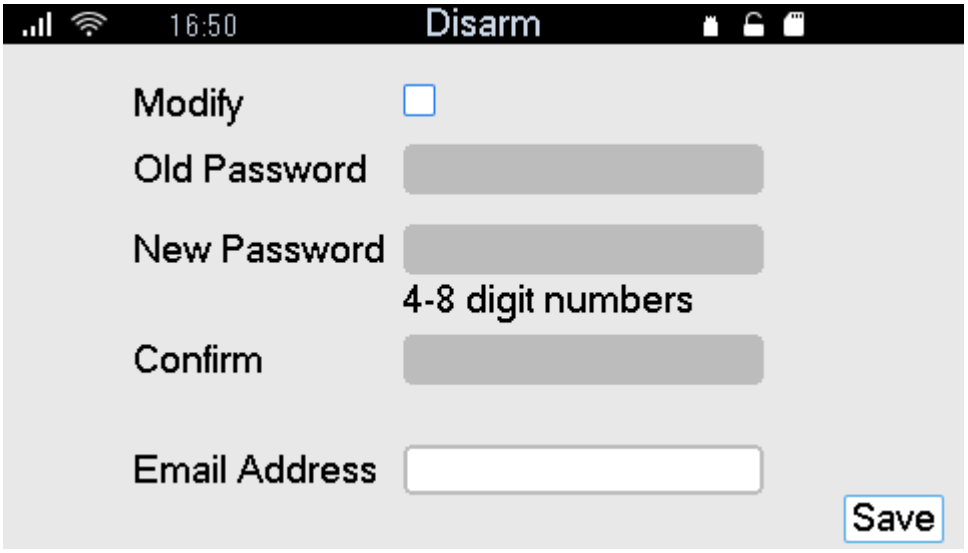


Figure 4-2

Step 3 Press [⋀] or [⋁], select the text box, and press numeric keys to enter “Old Password”, “New Password” and “Confirm”.

Note

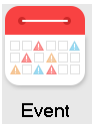
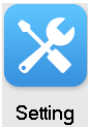
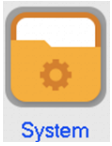
New password shall not be the same as old password.

Step 4 Press [⋀] or [⋁], select “Save” and press [OK] to save the settings.

4.2 Homepage Introduction

Enter the homepage after the password is modified during the first login. If it is not the first login, display “Welcome” progress bar after start and then display the homepage, as shown in Figure 4-3. For details, please refer to Table 4-1.

Figure 4-3

Symbol	Description
	Mobile signal strength symbol of SIM card, representing that SIM card has been installed.
	WIFI network symbol, representing that WIFI connection is enabled.
	The system is in disarm status. It displays in arm status.
	USB symbol, representing a USB has been inserted.
	System is disarmed. Armed system shows .
	SD card symbol, representing a SD card has been installed.
	The device supports battery power supply. When main power and battery co-exist and the battery is not full, the battery will be charged. The interface displays battery symbol and electric quantity percentage.
 	Display current system time at the homepage and status bar, such as 18:28.
	Display current system time.
	It represents that voice messages are not read. Please press [ ] to play.
	Search and view event info; backup the linkage videos in the events.
	Realize the following functions: ● Zone: Set zone. ● Mode: Set the arm mode of the zone; realize uniform arm and disarm. ● Wireless enrollment: Pairing connection between wireless detectors and panel. ● Camera: Manage IPC. ● PGM: Program output setting. Set active time of wired output, siren and internal siren when alarm is triggered. ● RFID: Add RFID card, arm and disarm with the card. ● Others: Set alarm uploading method (SMS or PSTN) when SOS, main power off and tamper switch are triggered.
	Realize the following functions: ● Password: Modify user password, supporting numbers with 4~8 digits. ● Info: View log info, device version and serial number. ● Time: Set device time, time format and DST. ● SD card: View SD card capacity or format. ● Network: Set network connection of the device, including wired,

Symbol	Description
	WIFI, 2G and P2P. ● Others: Set time delay, exit/ screen lock time, volume and key tone. ● Initialization: reboot the device or restore factory setting. ● Alarm center: Set alarm center info, supporting 2 groups of alarm center.

Table 4-1

4.3 Network Setting

4.3.1 Wired Network

The device supports wired network connection.

Step 1 In the homepage, press [⋀] or [⋁], select “System” and press [OK].

Step 2 Press [⋀] or [⋁], select “Network” and press [OK].

Step 3 Press [⋀] or [⋁], select “Net” and press [OK].

The interface is shown in Figure 4-4.

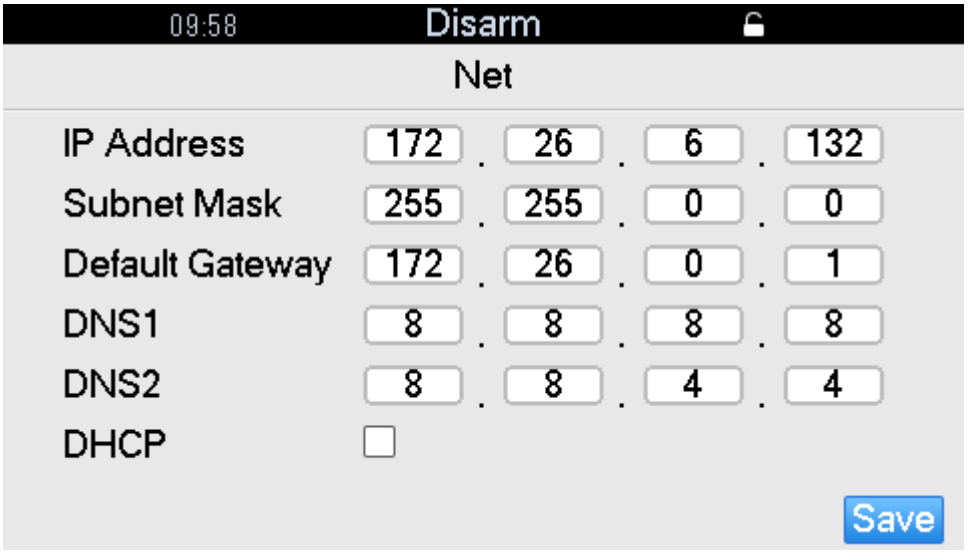


Figure 4-4

Step 4 Press [⋀] or [⋁], select the text box, and press numeric keys to enter new address field info.

Repeat the operation to modify “IP Address”, “Subnet Mask”, “Default Gateway”, “DNS1” and “DNS2”.

Note

If “DHCP” is ticked, it is unnecessary to configure IP address and relevant info, because the system obtains IP info dynamically.

Step 5 Press [⋀] or [⋁], select “Save” and press [OK] to save the settings.

4.3.2 WIFI

The device supports WIFI network connection.

Step 1 In the homepage, press [⋀] or [⋁], select “System” and press [OK].

Step 2 Press [⋀] or [⋁], select “Network” and press [OK].

Step 3 Press [⋀] or [⋁], select “WIFI” and press [OK].

The interface is shown in Figure 4-5.

Figure 4-5

Step 4 Press [⋀] or [⋁], select and press [OK].

Switch to and enable WIFI function.

Step 5 Press [⋀] or [⋁], select “Search” and press [OK].

Search and display nearby available WIFI info, as shown in Figure 4-6.

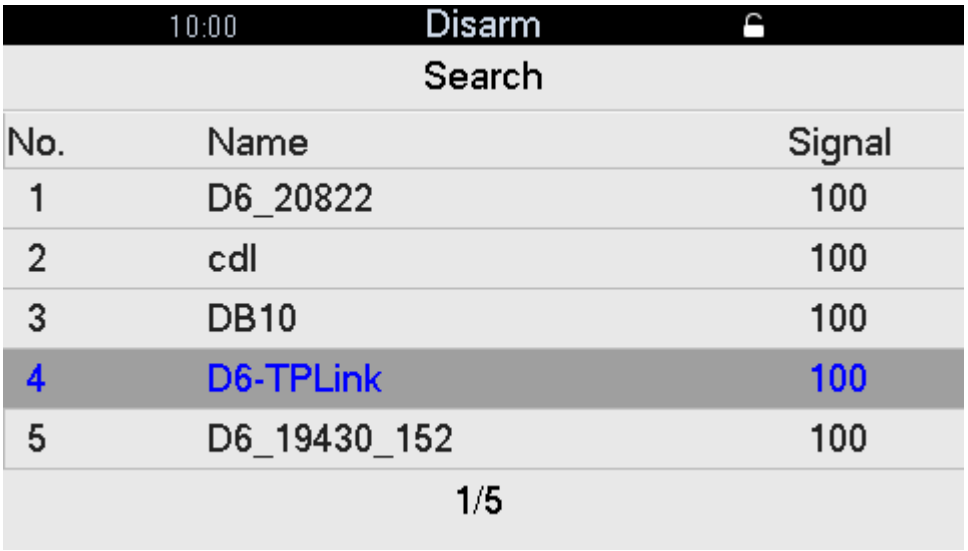


Figure 4-6

Step 6 Press [⋀] or [⋁], select needed WIFI and press [OK] to input password. Start connection.

If the interface displays WIFI info as shown in Figure 4-7, it means that the connection is successful. If it displays “Not Connected”, it means that connection has failed. Please

search and connect again.

Note

- Pairing function is used when the device connects WIFI network, with which mobile phone APP is connected. When mobile phone APP inputs WIFI password to connect, the device chooses “Pairing” to connect this WIFI network. For details, please refer to user’s manual of mobile phone APP.
- For password input operation, please refer to “Appendix 1 Operating Instructions of Input Method”.

Figure 4-7

4.3.3 2G

Support SIM card; report alarm and failure events through SMS (short message service).

Caution

2G function shall be enabled to realize SMS alarm.

Step 1 In the homepage, press [^] or [v], select “System” and press [OK].

Step 2 Press [^] or [v], select “Network” and press [OK].

Step 3 Press [^] or [v], select “2G” and press [OK].

The interface is shown in Figure 4-8.

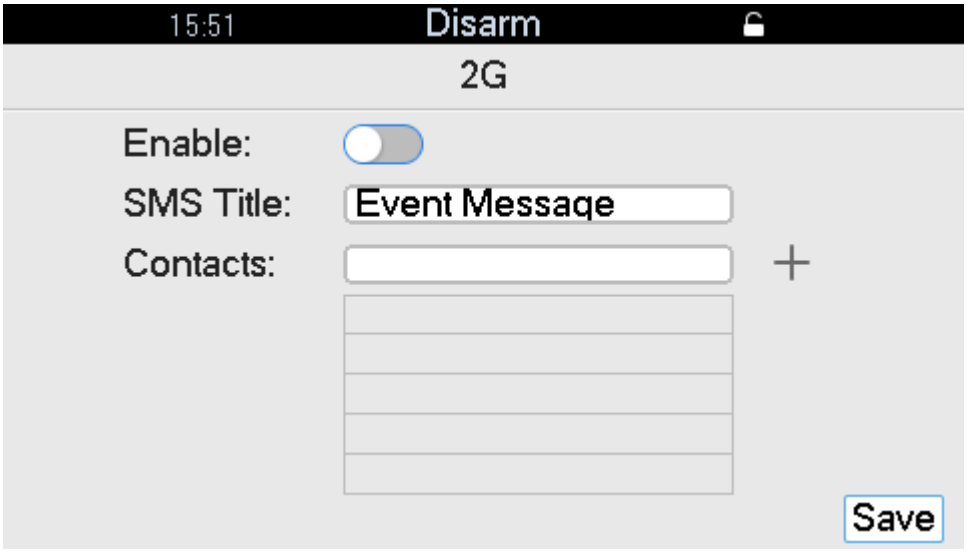


Figure 4-8

Step 4 Press [⋀] or [⋁], select and press [OK].

Switch to and enable 2G function.

Step 5 Press [⋀] or [⋁], select “SMS Title” text box and press [OK].

Please refer to “Appendix 1 Operating Instructions of Input Method”, input SMS title info, which is used to differentiate from SMS contents.

Step 6 Press [⋀] or [⋁], select “Contacts” text box and press [OK]. Input a receiver’s phone number and press [OK]. Press [⋀] or [⋁] again, select and press [OK], to add the phone number to the list.

Repeat above steps to input other phone numbers, as shown in Figure 4-9.

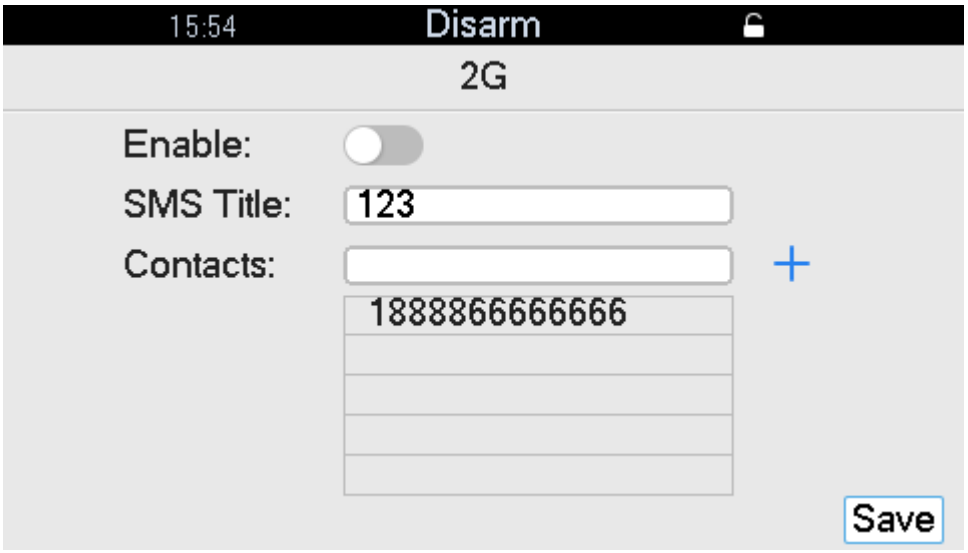


Figure 4-9

Step 7 Press [⋀] or [⋁], select “Save” and press [OK] to save the settings.

4.3.4 P2P

Enable P2P function, open mobile phone APP, directly input the SN or scan QR code to get SN,

save setting and then you can arm/disarm on APP to manage more than one device.

Step 1 In the homepage, press [^] or [v], select “System” and press [OK].

Step 2 Press [^] or [v], select “Network” and press [OK].

Step 3 Press [^] or [v], select “P2P” and press [OK].

The interface is shown in Figure 4-10.

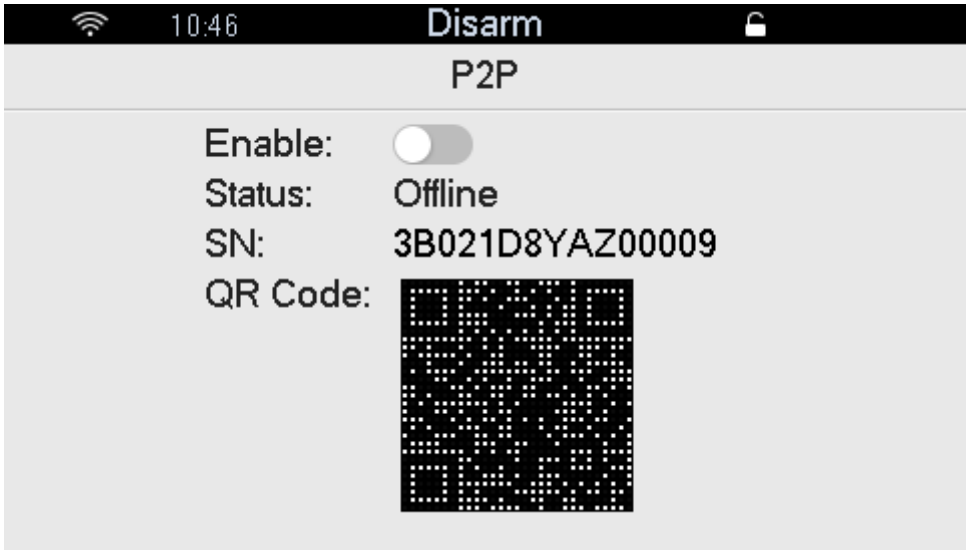


Figure 4-10

Step 4 Press [OK] to enable or disenable P2P function, as shown in Figure 4-11. After enabling P2P function, you can scan QR code with APP or directly enter SN to add device and access management device. Please refer to relevant user’s manual for details.

Figure 4-11

4.4 Wireless Enrollment

Add and delete wireless detectors, wireless sirens, wireless remote controls and wireless panic buttons.

4.4.1 Add Wireless Device

Step 1 In the homepage, press [⋀] or [⋁], select “Setting”, then select “Enroll” and press [OK].

The interface is shown in Figure 4-12.

Figure 4-12

Step 2 Press [⋀] or [⋁], select and press [OK].

Switch to to enable wireless enrollment function to enter enrolling status. The interface displays “Wireless Enrolling…”, as shown in Figure 4-13.

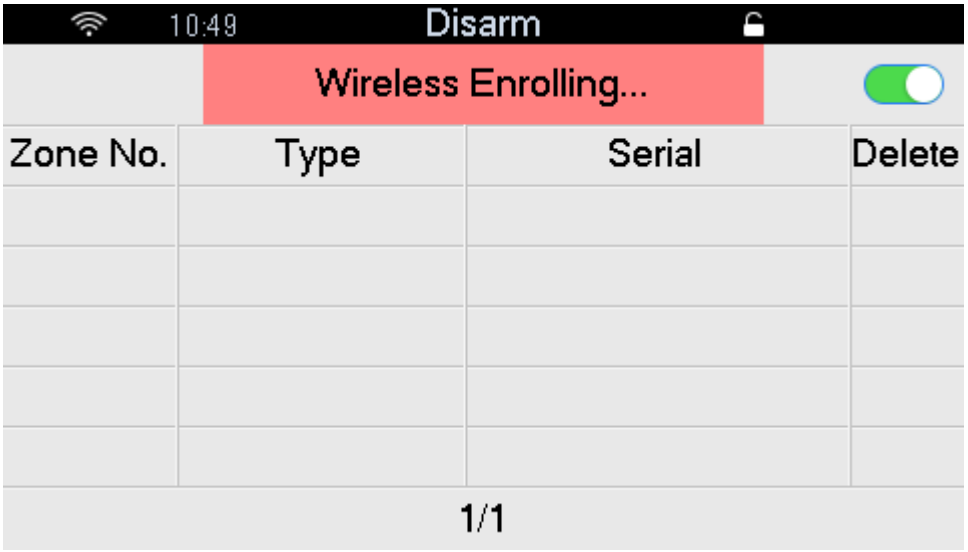


Figure 4-13

Step 3 Enrollment ways between wireless devices and panel refers to the following introductions for details.

- Wireless detector/siren/panic button enrollment

  Power on the detector/siren/panic button. Its indicator light is normally on and then flashes fast, representing that it enters enrollment mode and starts enrollment.

  Enrollment success: detector/siren/panic button info is displayed on LCD screen.

  Enrollment failure: detector/siren/panic button’s red light flashes slowly for 3 times.

Repeat above steps, until it is paired successfully. Alternatively, slide the tamperproof switch of the case manually to make red light flash fast until it is paired successfully.

Note

- Zone no. of wireless detector starts from 3 in sequence.
- Zone no. of wireless siren starts from 44 in sequence.
- Zone no. of wireless panic button starts from 35 in sequence.

Taking “wireless PIR detector” for example, position of shell tamper switch is shown in Figure 4-14.

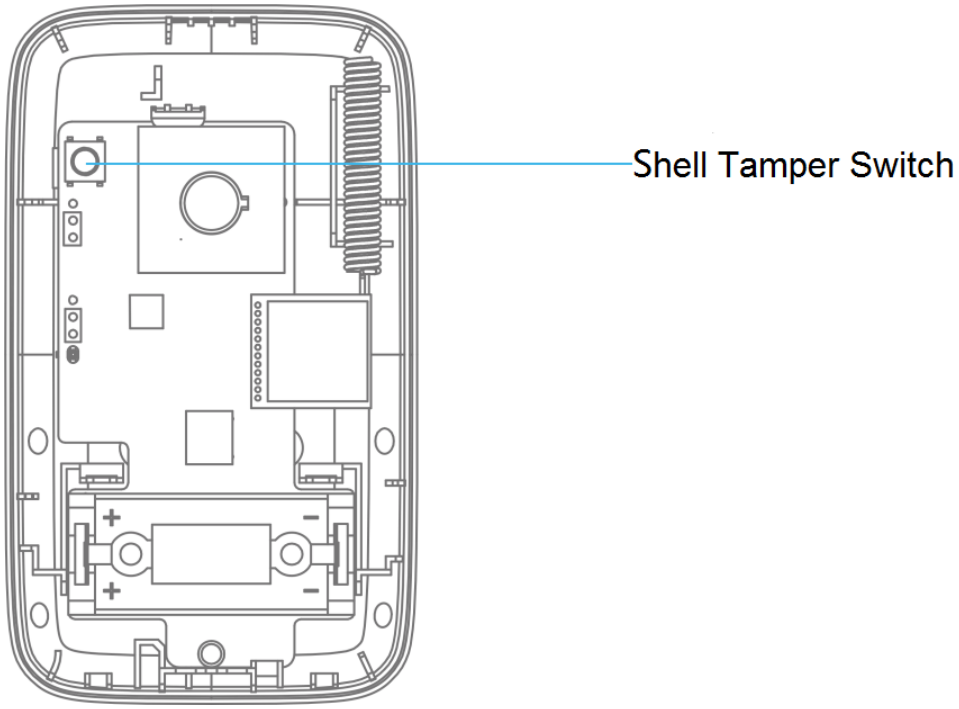


Figure 4-14

- Remote control enrollment

  Press any key for 3s. If this remote control info is displayed on LCD screen, it means that enrollment is successful; otherwise, enrollment has failed; please enroll again.

  Note

  Channel no. of wireless remote control starts from 35 in sequence.

4.4.2 Delete Wireless Device

Step 1 In the homepage, press [^] or [v], select “Setting” and press [OK].

Step 2 Press [^] or [v], select “Enroll” and press [OK].

The interface is shown in Figure 4-15.

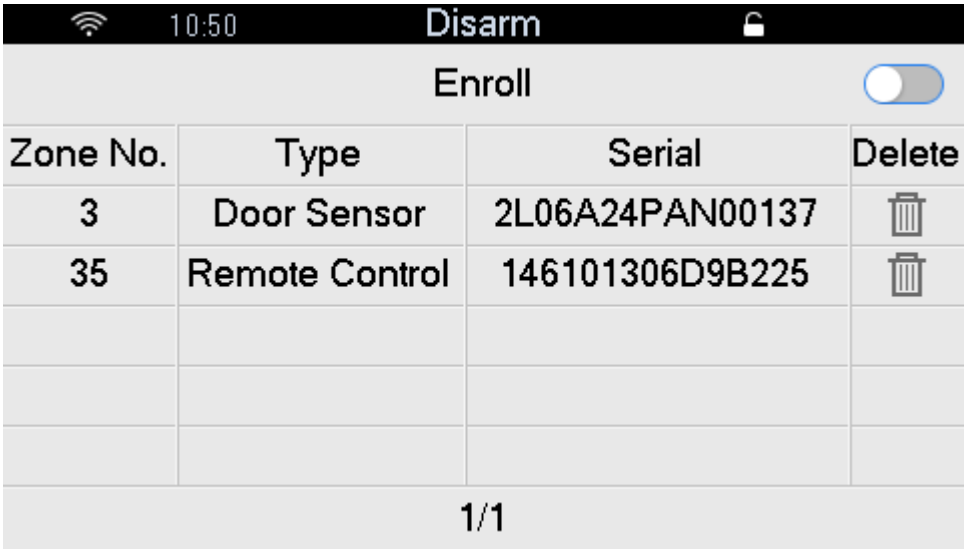


Figure 4-15

Step 3 Press [⋀] or [⋁], select in the corresponding wireless device column, and press [OK]. “Confirm” prompt box will pop up.

Step 4 Press [⋀] or [⋁], select “Yes” and press [OK] to delete it.

4.5 Camera Management

Add and delete remote IP camera.

4.5.1 Add Camera

Step 1 In the homepage, press [⋀] or [⋁], select “Setting” and press [OK].

Step 2 Press [⋀] or [⋁], select “Camera” and press [OK].

The interface is shown in Figure 4-16. Add cameras in two ways as follows.

Note

Red means that the camera is offline.

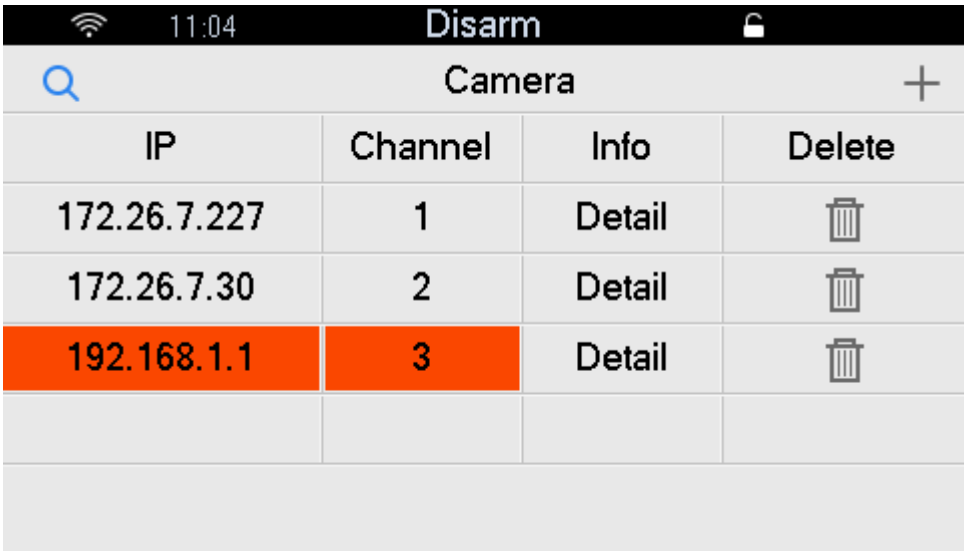


Figure 4-16

- Search

1. Press [⋀] or [⋁], select and press [OK].
   Search the info about all cameras in the same network segment, as shown in Figure 4-17. Press corresponding numeric key to page up and down.

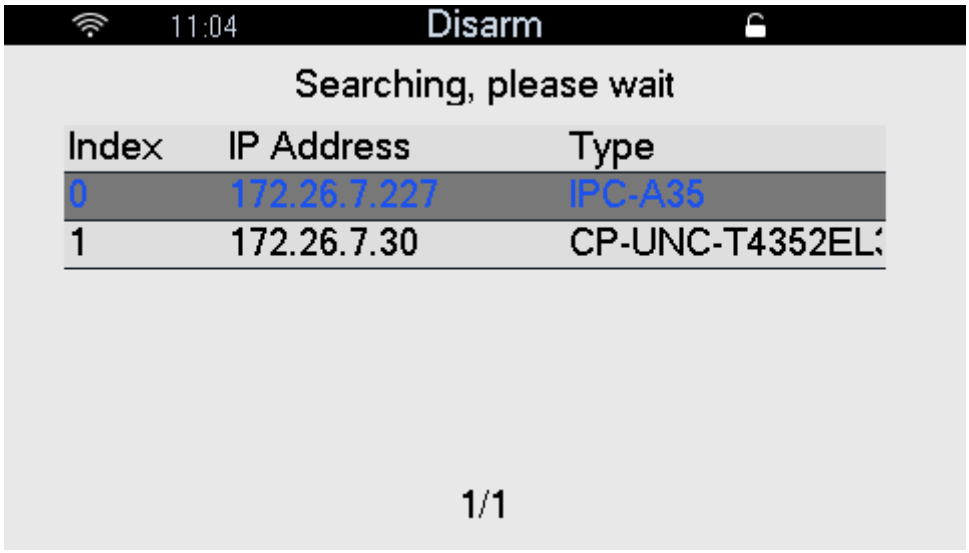


Figure 4-17

2. Press [⋀] or [⋁], select a camera and press [OK].
   Add the camera, as shown in Figure 4-18.

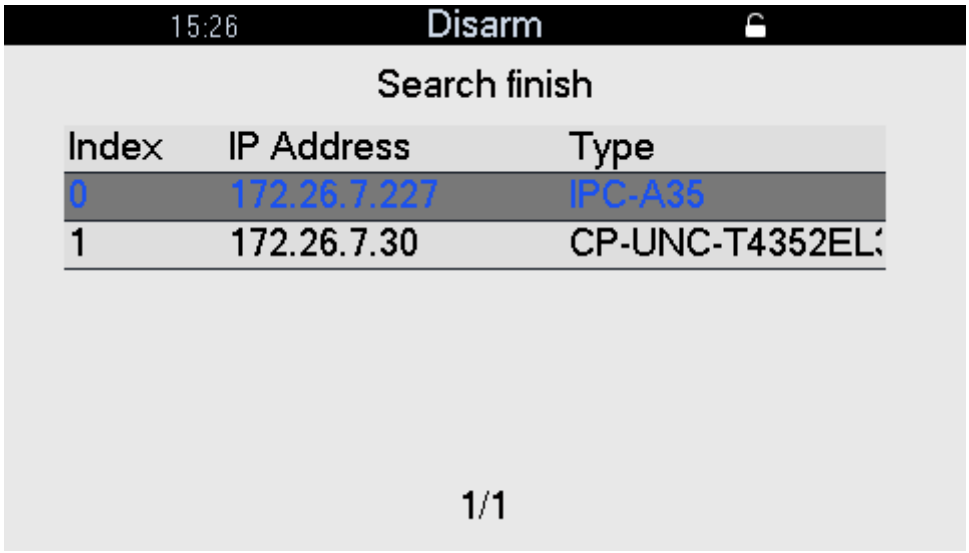


Figure 4-18

- Manual adding

1. Press [⋀] or [⋁], select and press [OK].
   The interface is shown in Figure 4-19.

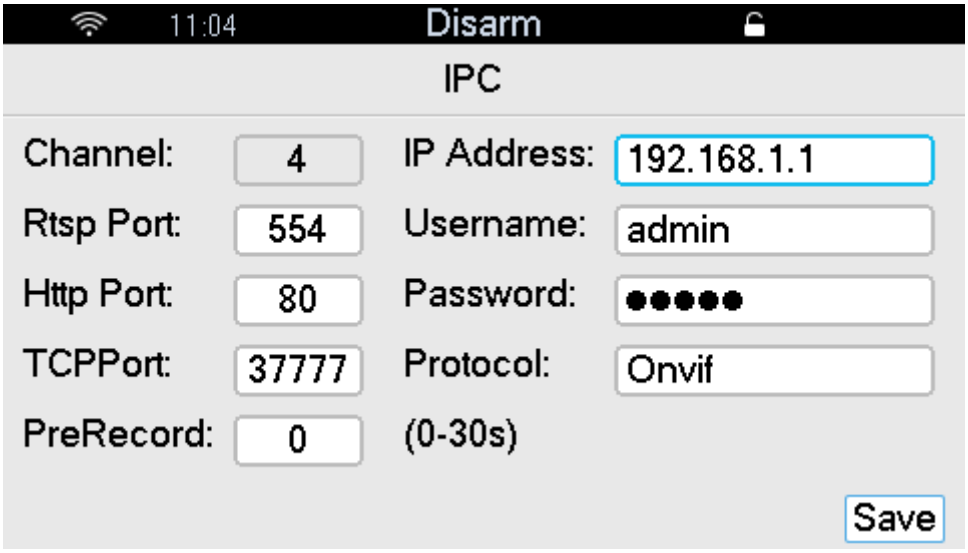


Figure 4-19

2. Press [⋀] or [⋁], select corresponding parameter text box, input numbers, or input them by reference to “Appendix 1 Operating Instructions of Input Method”. For specific parameter descriptions, please refer to Table 4-2.

Parameter	Description
Channel	The system identifies idle channel number automatically, which cannot be modified.
Rstp Port	Input RTSP port number of the camera. It is 554 by default.
Http Port	Input HTTP communications port number of the camera. It is 80 by default.
TCP Port	It is service port of TCP protocol, to be set according to the user’s actual needs. It is 37777 by default.
IP Address	Input IP address of the camera.
Username/ Password	Input username and password to login the camera.
Protocol	Select from Private and Onvif according to actual conditions. Press [OK] to switch.
Pre-record	Pre-record time before linkage alarm recording. Note At most 2 cameras can enable pre-record function.

Table 4-2

3. Press [⋀] or [⋁], select “Save” and press [OK] to save the settings.

4.5.2 Modify/View Camera Parameters

Step 1 In the homepage, press [⋀] or [⋁], select “Setting” and press [OK].

Step 2 Press [⋀] or [⋁], select “Camera” and press [OK].

Step 3 Press [⋀] or [⋁], select “Parameter” and press [OK].

Display connection info about this camera.

Step 4 Modify camera info by reference to manual adding description in “4.5.1 Add Camera”.

4.5.3 Delete Camera

Step 1 In the homepage, press [^] or [v], select “Setting” and press [OK].

Step 2 Press [^] or [v], select “Camera” and press [OK].

Step 3 Press [^] or [v], select and press [OK]. Delete the corresponding camera.

4.6 RFID Management

Add and delete RFID card. After RFID card is added, you can use this card to away arm and disarm.

4.6.1 Add RFID Card

Step 1 In the homepage, press [^] or [v], select “Setting” and press [OK].

Step 2 Press [^] or [v], select “RFID” and press [OK].

The interface is shown in Figure 4-20.

Figure 4-20

Step 3 Press [^] or [v], select and press [OK]. Enter card-swiping interface, as shown in Figure 4-21.

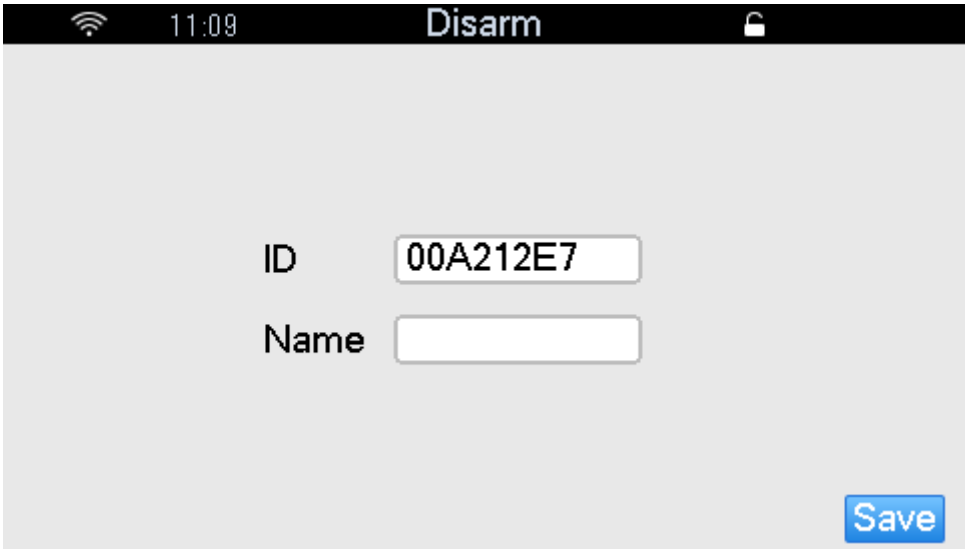


Figure 4-21

Step 4 Swipe FRID card in the card-swiping zone.

Display ID, representing successful identification. Then, press [⌃] or [⌄], select "Name" text box and press [OK] to enter card name.

Step 5 Press [⌃] or [⌄], select "Save" and press [OK] to save the settings.

4.6.2 Delete RFID Card

Step 1 In the homepage, press [⌃] or [⌄], select "Setting" and press [OK].

Step 2 Press [⌃] or [⌄], select "RFID" and press [OK].

Step 3 Press [⌃] or [⌄], select and press [OK] to delete this RFID card.

4.7 Zone Setting

Set zone name and linkage parameters during alarm.

Step 1 In the homepage, press [⌃] or [⌄], select "Setting" and press [OK].

Step 2 Press [⌃] or [⌄], select "Zone" and press [OK].

The interface is shown in Figure 4-22.

Figure 4-22

Step 3 Press [⋀] or [⋁], select a zone to be set and press [OK].
The interface is shown in Figure 4-23.

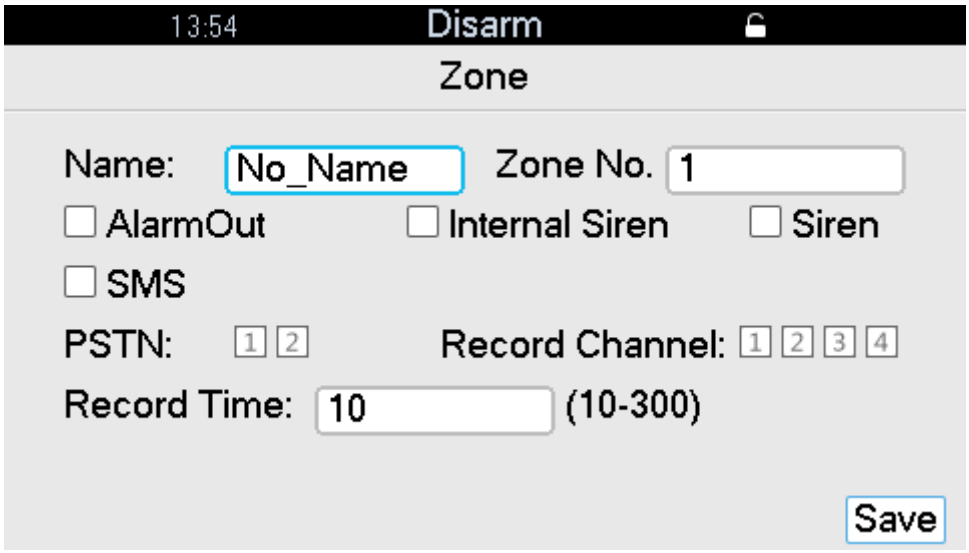


Figure 4-23

Step 4 Press [⋀] or [⋁], select parameters and press [OK] to select or modify.
For specific parameter descriptions, please refer to Table 4-3.

Parameter	Description
Name	Set zone name, which will be shown in linkage SMS in case of alarm linkage. For specific settings, please refer to “Appendix 1 Operating Instructions of Input Method”.
Zone No.	It is identified automatically and cannot be set.
Alarm Out	After selection, output a linkage alarm when an alarm is triggered in the zone.
Internal Siren	After selection, internal siren will send sound when an alarm is triggered in the zone.
Siren	After selection, siren will send an alarm when an alarm is triggered in the zone.
SMS	After selection, alarm info will be sent by SMS when an alarm is triggered in the zone.

Parameter	Description
PSTN	Two check boxes represent PSTN 1 and PSTN 2 respectively. After selection, alarm info will be reported to the selected PSTN when an alarm is triggered in the zone.
Record Channel	Four check boxes represent record channel 1~ 4. After selection, the selected channel will start recording when an alarm is triggered in the zone.
Record Time	Press numeric key to input record time. After setting record time, videos will be recorded within the time period when alarm is triggered.

Table 4-3

Step 5 Press [⩓] or [⩔], select “Save” and press [OK] to save the settings.

4.8 Mode Setting

The system provides 3 modes, including stay, away and custom. Add required zone to corresponding mode; realize uniform arm and disarm.

- Stay: add zones around the house to “Stay” mode; enable “Stay” mode when you are at home.
- Away: add all zones to “Away” mode; enable “Away” mode when you are out. It includes exit time and entry delay. Please refer to Table 4-5 for details.
- Custom: add required zones to “Custom” mode; enable “Custom” mode in due time.

For example, add 3 zones to “Stay” mode.

Step 1 In the homepage, press [⩓] or [⩔], select “Setting” and press [OK].

Step 2 Press [⩓] or [⩔], select “Mode” and press [OK].

The interface is shown in Figure 4-24.

Figure 4-24

Step 3 Press [⩓] or [⩔], select “Stay” and press [OK].

The interface is shown in Figure 4-25.

Figure 4-25

Step 4 Press [⋀] or [⋁], press [OK] and select the zones.

Note

- Repeat the operation to select multiple zones.
- One zone can be added to different modes.

Step 5 Press [⋀] or [⋁], select “Save” and press [OK] to save the settings.

4.9 PGM Setting

Set alarm output time, siren time and internal siren time.

Step 1 In the homepage, press [⋀] or [⋁], select “Setting” and press [OK].

Step 2 Press [⋀] or [⋁], select “PGM” and press [OK].

The interface is shown in Figure 4-26.

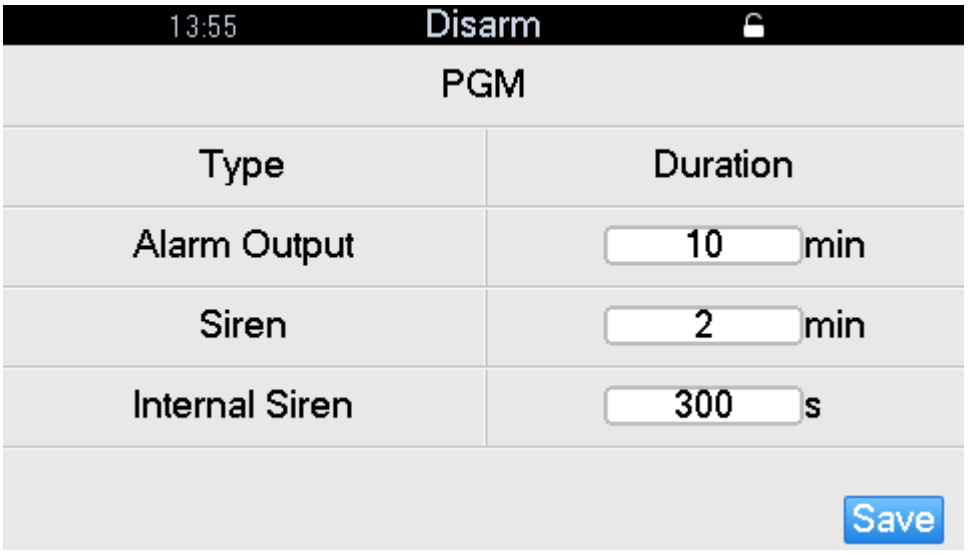


Figure 4-26

Step 3 Press [⋀] or [⋁]; select corresponding parameter text box.

Step 4 Press numeric keys to input time value.

Step 5 Press [⋀] or [⋁], select “Save” and press [OK] to save the settings.

4.10 Event Reporting Setting

Set reporting position of alarm info in case of SOS, power off and tamper.

Step 1 In the homepage, press [^] or [v], select “Setting” and press [OK].

Step 2 Press [^] or [v], select “Other” and press [OK].

The interface is shown in Figure 4-27.

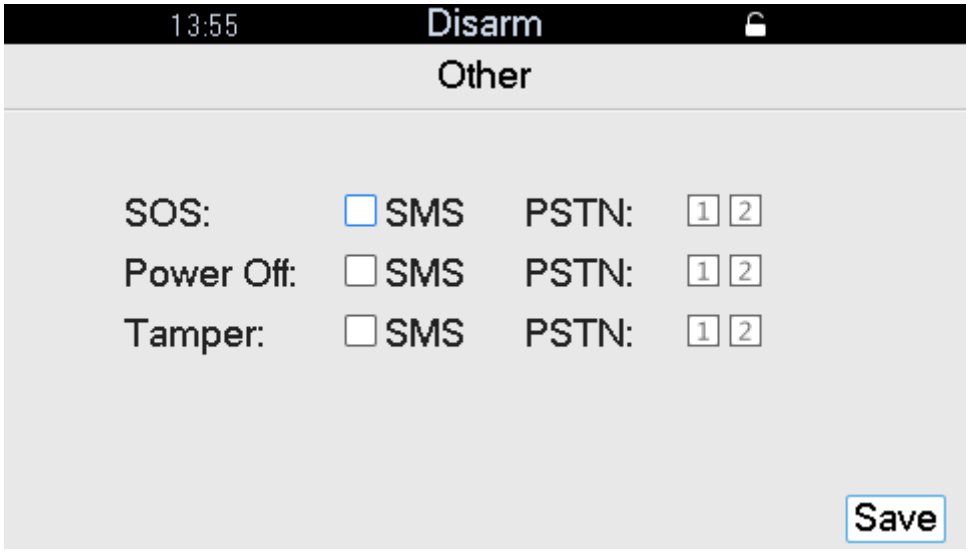


Figure 4-27

Step 3 Press [^] or [v], select corresponding check box and press [OK] to select or cancel.

Step 4 Press [^] or [v], select “Save” and press [OK] to save the settings.

4.11 Time Setting

Set device time, time format and DST.

4.11.1 Time Setting

Step 1 In the homepage, press [^] or [v], select “System” and press [OK].

Step 2 Press [^] or [v], select “Time” and press [OK].

Step 3 Press [^] or [v], select “Time Setting” and press [OK].

The interface is shown in Figure 4-28.

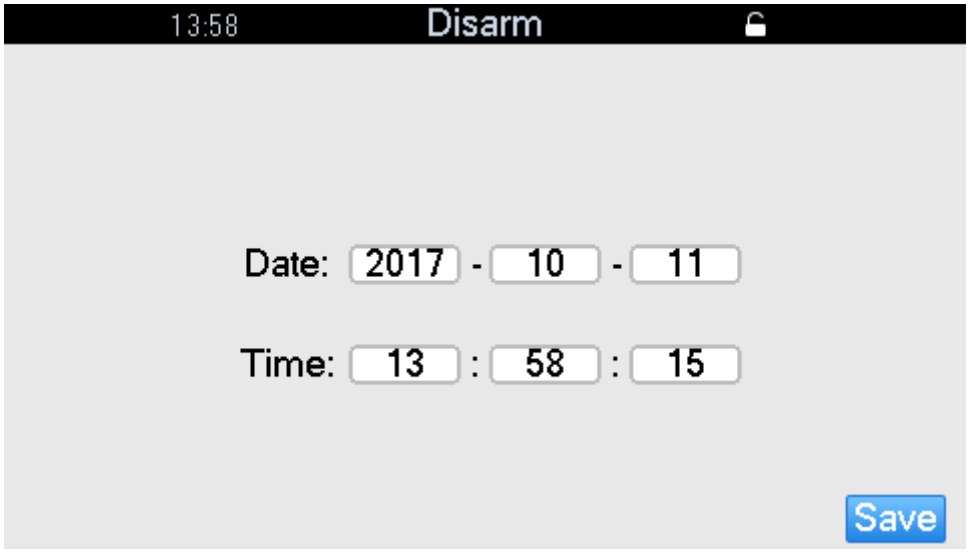


Figure 4-28

Step 4 Press [⋀] or [⋁], select Year/Month/Day/Hour/Minute/Second text box, and press numeric keys to input numbers.

Step 5 Press [⋀] or [⋁], select “Save” and press [OK] to save the settings.

4.11.2 DST Setting

Step 1 In the homepage, press [⋀] or [⋁], select “System” and press [OK].

Step 2 Press [⋀] or [⋁], select “Time” and press [OK].

Step 3 Press [⋀] or [⋁], select “DST” and press [OK].

The interface is shown in Figure 4-29.

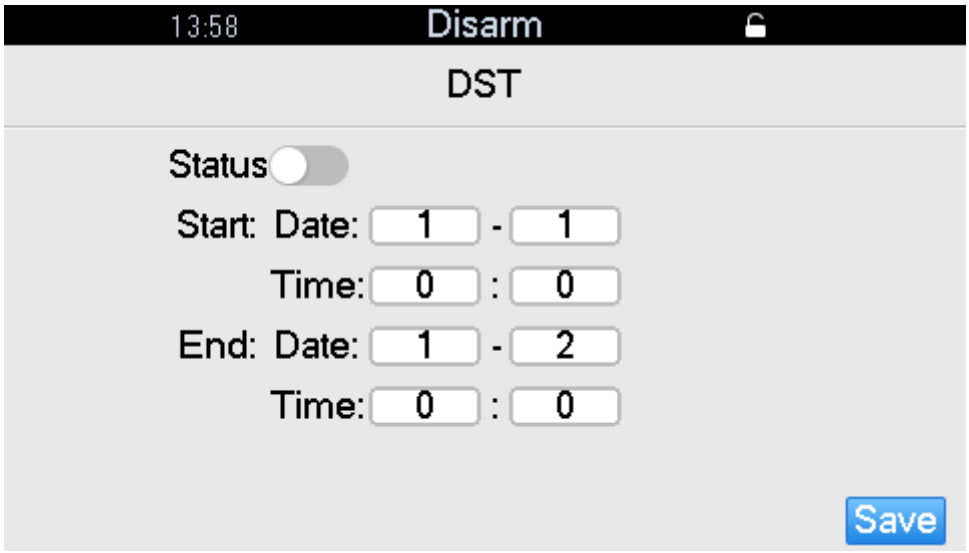


Figure 4-29

Step 4 Press [⋀] or [⋁]; select .

Switch to and start DST function.

Step 5 Press [⋀] or [⋁], select Month/Day/Hour/Minute text box, and press numeric keys to input numbers.

Set DST start time and end time. The device will operate according to DST within this

time period.

Step 6 Press [⌃] or [⌄], select “Save” and press [OK] to save the settings.

4.11.3 Time Format

Step 1 In the homepage, press [⌃] or [⌄], select “System” and press [OK].

Step 2 Press [⌃] or [⌄], select “Time” and press [OK].

Step 3 Press [⌃] or [⌄], select “Time Format” and press [OK].

The interface is shown in Figure 4-30.

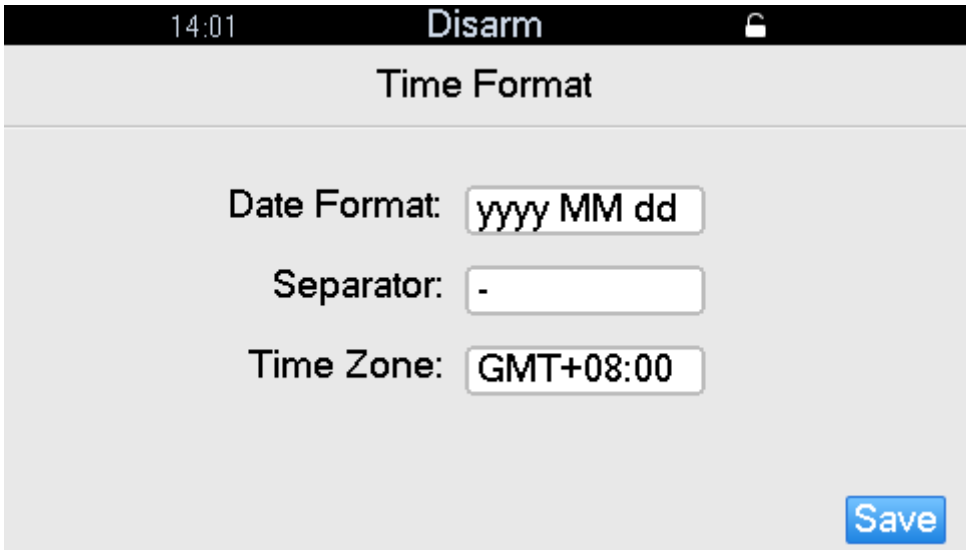


Figure 4-30

Step 4 Press [⌃] or [⌄], select corresponding check box and press [OK] to switch format.

For specific parameter descriptions, please refer to Table 4-4.

Parameter	Description
Date Format	It includes yyyy MM dd, MM dd yyyy and dd MM yyyy. yyyy represents year, MM represents month and dd represents day.
Separator	It includes “-”, “.” and “/”.
Time Zone	Please set according to local time zone.

Table 4-4

Step 5 Press [⌃] or [⌄], select “Save” and press [OK] to save the settings.

4.12 Call Center Setting

Set 2 groups of call center info. After setting telephone number of call center, alarms will be reported to call center.

Step 1 In the homepage, press [⌃] or [⌄], select “System” and press [OK].

Step 2 Press [⌃] or [⌄], select “Call Center” and press [OK].

The interface is shown in Figure 4-31.

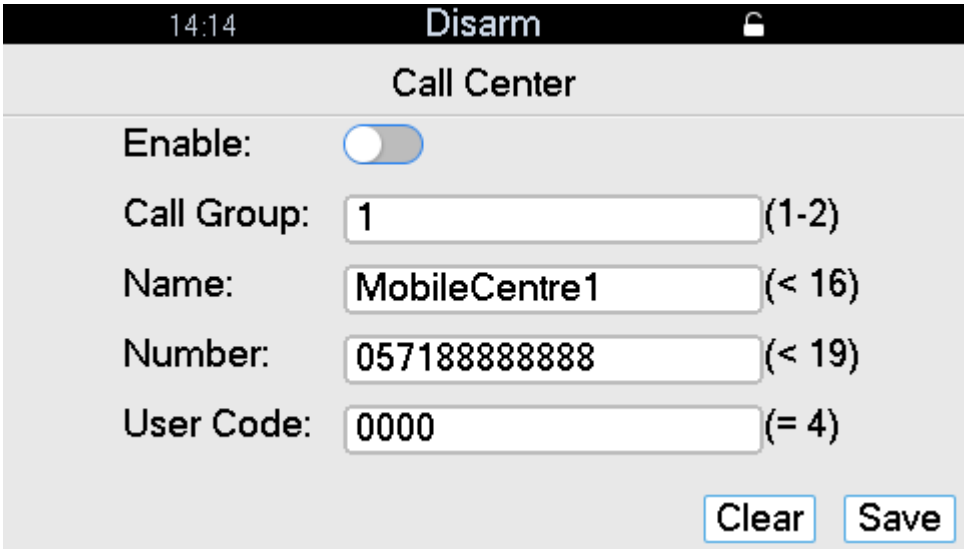


Figure 4-31

Step 3 Press [⋀] or [⋁], select “Call Group” text box and press [OK].

Switch between Call Center 1 and Call Center 2. Taking “1” for example, it means to view or set Call Center 1.

Step 4 Press [⋀] or [⋁], select other parameter text boxes, input with input method or numeric keys, and thus set “Name”, “Number” and “User Code” of this call center.

Note

- For operation, please refer to “Appendix 1 Operating Instructions of Input Method”.
- Set actual user code of call center.
- “Clear” is used to delete alarm events that exist in the system but are not sent yet.

Step 5 Press [⋀] or [⋁], select “Save” and press [OK] to save the settings.

4.13 Delay and Volume Setting

Step 1 In the homepage, press [⋀] or [⋁], select “System” and press [OK].

Step 2 Press [⋀] or [⋁], select “Other” and press [OK].

The interface is shown in Figure 4-32.

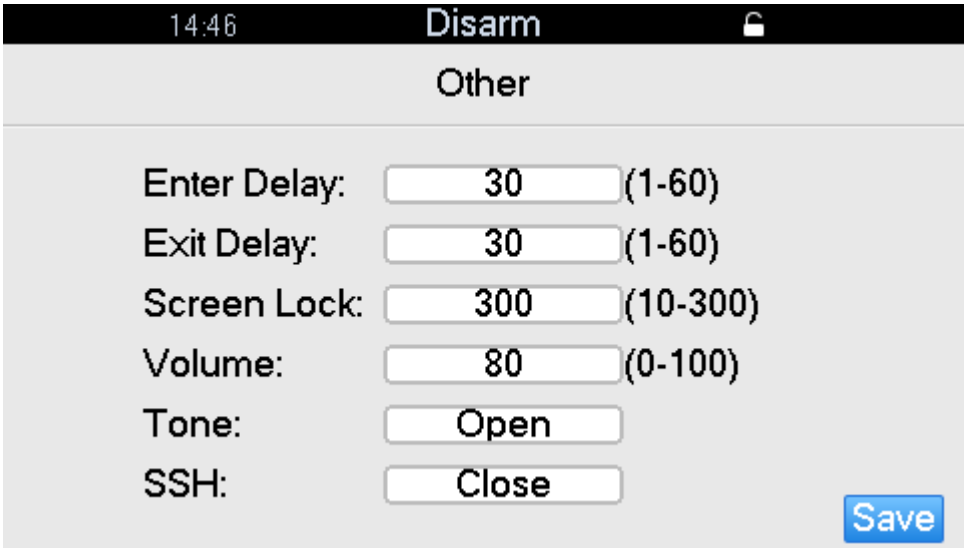


Figure 4-32

Step 3 Press [⋀] or [⋁], select corresponding parameter text boxes, and press numeric keys to input time value.

For introduction to every parameter, please refer to Table 4-5.

Note

Key tone is selected by pressing [OK].

Parameter	Description
Enter Delay	If away arm is chosen and “Enter Delay” is set, the system won’t report alarms if you disarm within “Enter Delay” time.
Exit Delay	If “Exit Delay” is set, the system won’t report alarms if you leave the zone within countdown of “Exit Delay” time.
Screen Lock	Screen-on time when there is no operation. After screen lock, press any key to wake it up.
Volume	Adjust volume of siren and internal siren.
Tone	Turn on or turn off the tone of touching the keys.

Table 4-5

Step 4 Press [⋀] or [⋁], select “Save” and press [OK] to save the settings.

4.14 SD Card Format

Caution

Please format SD card during the first use.

Step 1 In the homepage, press [⋀] or [⋁], select “System” and press [OK].

Step 2 Press [⋀] or [⋁], select “SD” and press [OK].

The interface is shown in Figure 4-33。

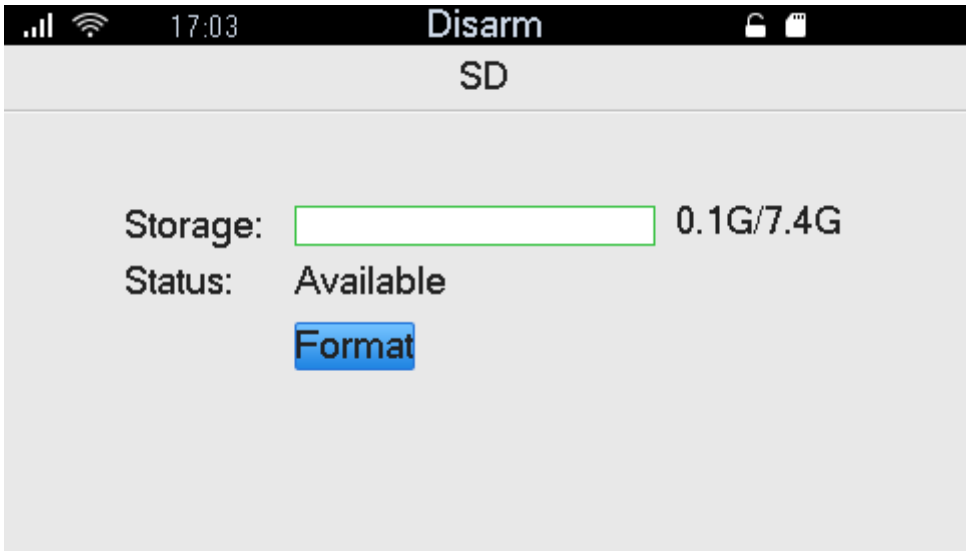


Figure 4-33

Step 3 Press [OK]. Pop up a confirmation prompt box.

Step 4 Press [⋀] or [⋁], select “Yes” and press [OK].

It will display “Successful Format”. In case that it displays failure, please format it

again.

4.15 Initialization

Reboot the device or restore factory defaults.

4.15.1 Reboot

Step 1 In the homepage, press [^] or [v], select “System” and press [OK].
Step 2 Press [^] or [v], select “Initialization” and press [OK].
Step 3 Press [^] or [v], select “Reboot” and press [OK]. Pop up a confirmation prompt box.
Step 4 Press [^] or [v], select “Yes” and press [OK]. The device will be rebooted.

4.15.2 Initialization

Step 1 In the homepage, press [^] or [v], select “System” and press [OK].
Step 2 Press [^] or [v], select “Initialization” and press [OK].
Step 3 Press [^] or [v], select “Initialization” and press [OK].
Pop up a confirmation prompt box.
Step 4 Press [^] or [v], select “Yes” and press [OK].
It displays “Rebooting…” The device will be rebooted and restore factory defaults.

4.16 Info

View device log and info.

4.16.1 View Device Log

Step 1 In the homepage, press [^] or [v], select “System” and press [OK].
Step 2 Press [^] or [v], select “Info” and press [OK].
Step 3 Press [^] or [v], select “Log” and press [OK].
The interface is shown in Figure 4-34.

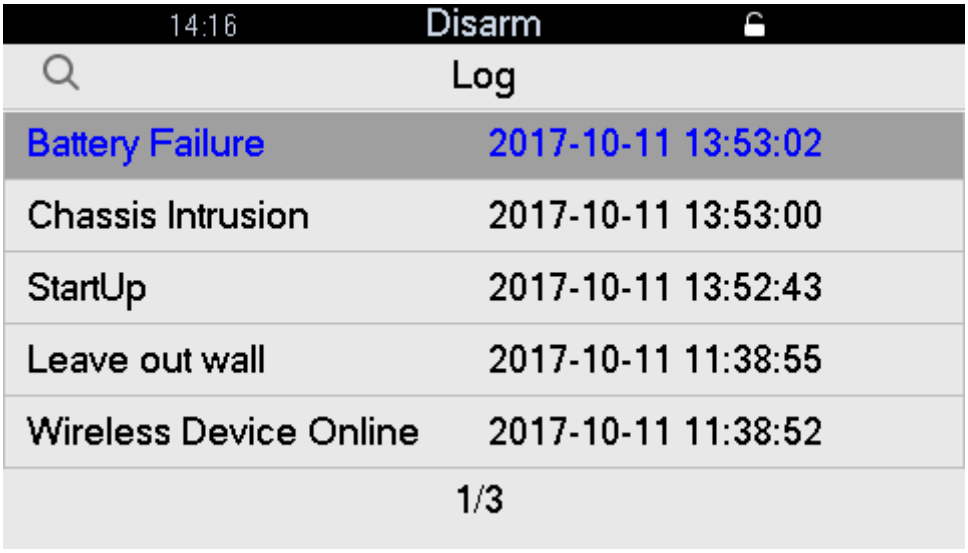


Figure 4-34

Note

- The last 45 log info is displayed. Press numeric keys to page up and down.
- is used to delete all logs.

Step 4 Press [▲] or [▼], and select .

The interface is shown in Figure 4-35. Press [▲] or [▼], select text box and press numeric keys to input numbers. Then, press [▲] or [▼], select “Search” to display the last 45 logs within the stipulated time period.

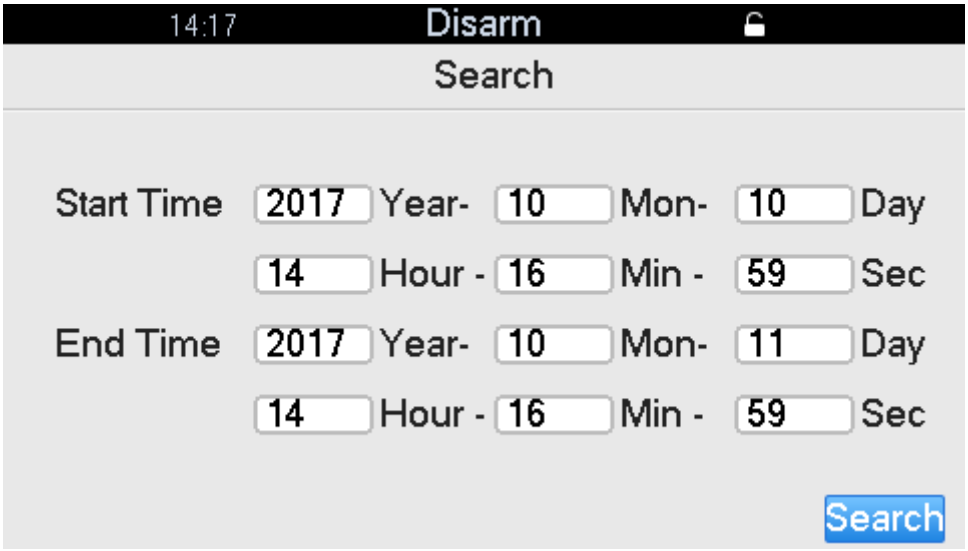


Figure 4-35

Step 5 Press [▲] or [▼], select a log and press [OK] to view detailed info.

4.16.2 View Version Info

Step 1 In the homepage, press [▲] or [▼], select “System” and press [OK].

Step 2 Press [▲] or [▼], select “Info” and press [OK].

Step 3 Press [▲] or [▼], select “Version Info” and press [OK].

View software version, serial number and version date. The interface is shown in

Figure 4-36.

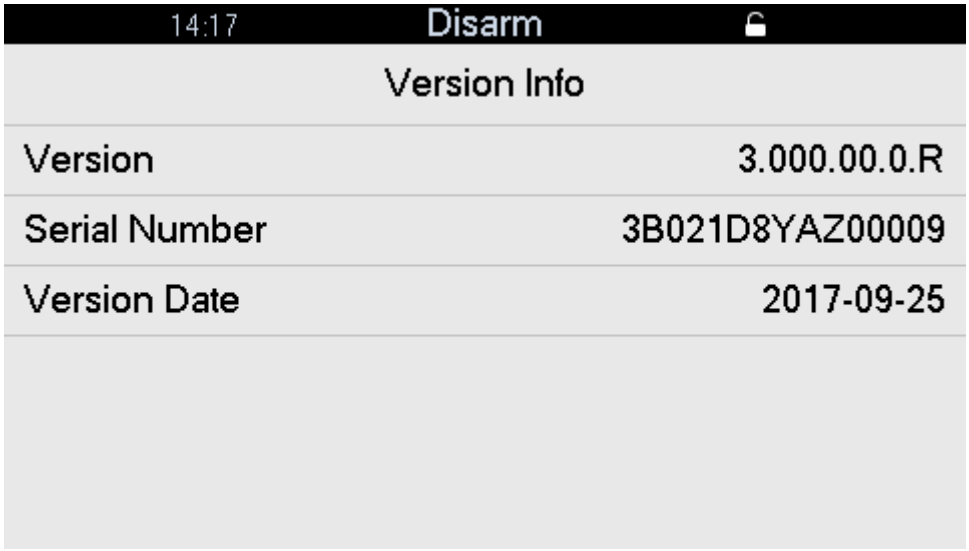


Figure 4-36

4.17 Event

Search and view events; backup linkage videos of the events.

4.17.1 Search and View Events

Step 1 In the homepage, press [⌃] or [⌄], select “Event” and press [OK].
The interface is shown in Figure 4-37.

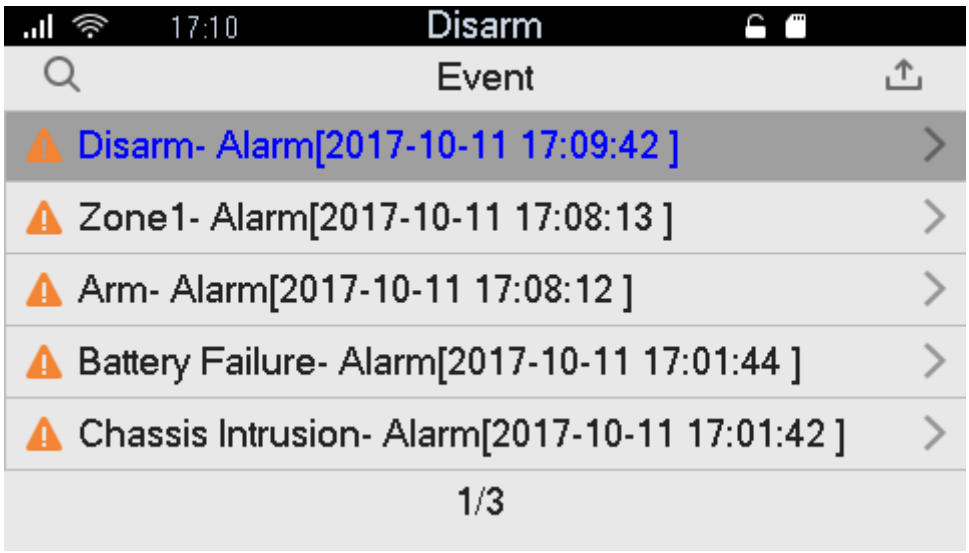


Figure 4-37

Note
Display the last 45 events; press numeric keys to page up and down.

Step 2 Press [⌃] or [⌄], and select .
The interface is shown in Figure 4-38. Press [⌃] or [⌄], select text box and press

numeric keys to input numbers. Then, press [⋀] or [⋁], select “Search” to display the last 45 events within the stipulated time period.

Figure 4-38

Step 3 Press [⋀] or [⋁], select an event and press [OK] to view detailed info.

4.17.2 Play Record

If SD card has been installed and alarm linkage record has been set, after an alarm event, the record can be played at detailed info interface.

Step 1 Enter “Detailed Info” interface according to viewing steps, as shown in Figure 4-39.

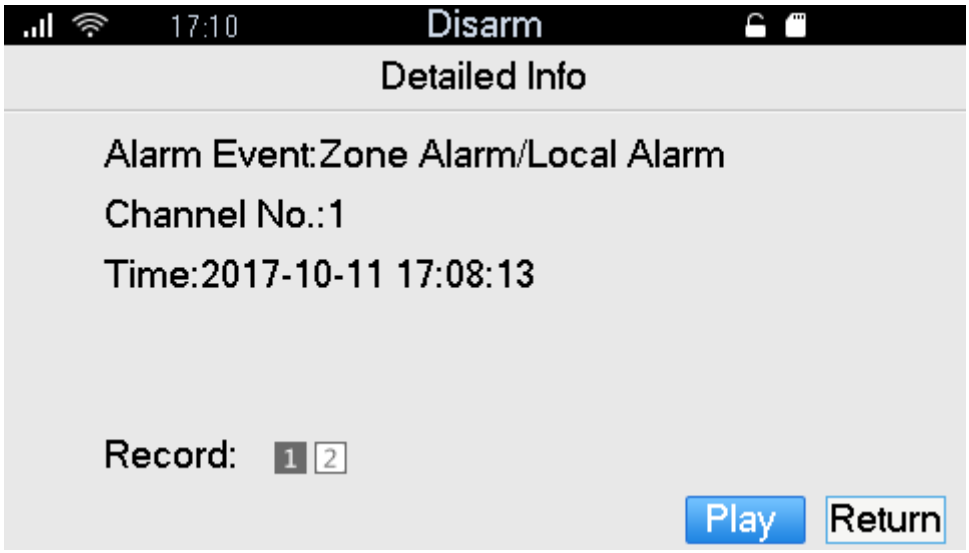


Figure 4-39

Step 2 Press [⋀] or [⋁], select record channel and press [OK] to select it.

Step 3 Press [⋀] or [⋁], select “Play” and press [OK] to play and preview the record.

4.17.3 Backup Video

Backup the linkage record videos of the events. Before operation, please complete the following two items:

- With search function, search event info that needs to backup videos.
- Insert USB disk.

Step 1 At event interface, press [^] or [v], select and press [OK]

Step 2 Press [^] or [v], select an event and press [OK] to select it.
Repeat the operation and select multiple events.

Step 3 Press [^] or [v], select and press [OK].
Pop up a confirmation prompt box.

Step 4 Press [^] or [v], select “Yes” and press [OK]. Linkage record videos of the selected events will backup in the USB disk.

4.18 Arm and Disarm

4.18.1 Arm and Disarm with Shortcut Keys

The system provides shortcut keys for stay arm, away arm, custom arm, disarm and etc.

Note

Before arm, please make sure the zone you intend to arm has been added to corresponding arm mode.

4.18.1.1 Stay Arm

Step 1 Press [] and password input box will pop up.

Step 2 Press numeric keys to input password.

Step 3 Press [OK]. The system beeps once, and status bar at the top of LCD screen displays “Arm”, so zone of “Stay Arm” mode enters armed status.

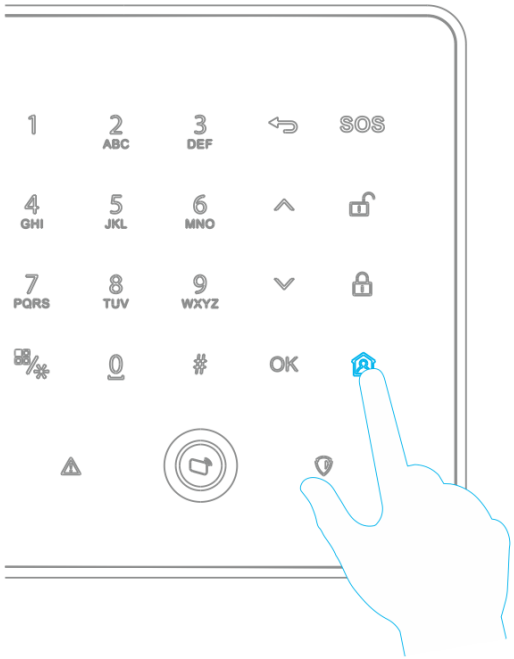


Figure 4-40

4.18.1.2 Away Arm

Step 1 Press [🔒] and password input box will pop up.

Step 2 Press numeric keys to input password.

Step 3 Press [OK]. The system beeps all along, and enters exit delay countdown. Status bar at the top of LCD screen displays “Arm”, so zone of “Away Arm” mode enters armed status. Exit the zone within countdown, and the system won’t upload the alarm.

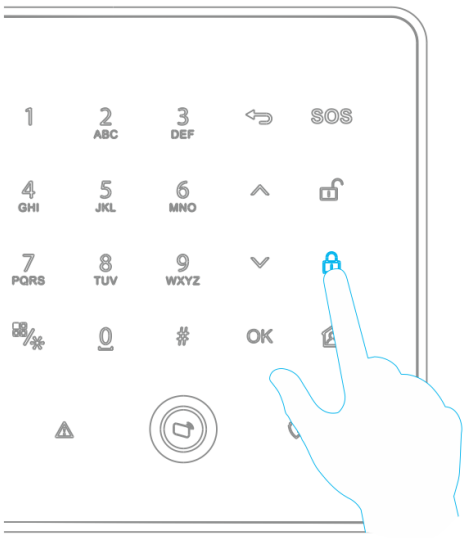


Figure 4-41

4.18.1.3 Custom Arm

Step 1 Press [1] and password input box will pop up.

Step 2 Press numeric keys to input password.

Step 3 Press [OK]. The system beeps once, and status bar at the top of LCD screen displays “Arm”, so zone of “Custom Arm” mode enters armed status.

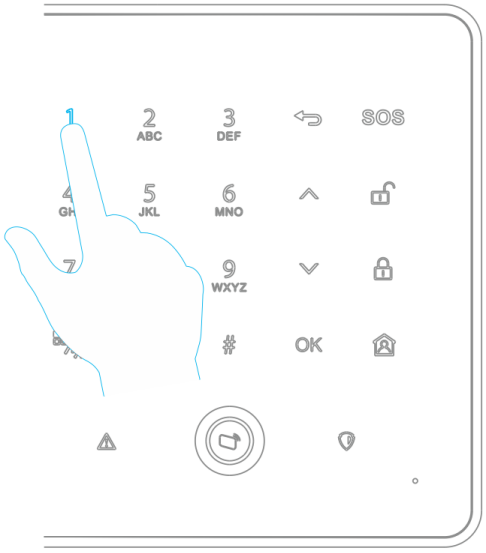


Figure 4-42

4.18.1.4 Disarm

Step 1 Press [ ] and password input box will pop up.

Step 2 Press numeric keys to input password.

Step 3 Press [OK]. The system beeps twice, and status bar at the top of LCD screen displays “Disarm” to remove the last arm, so all zones enter disarmed status.

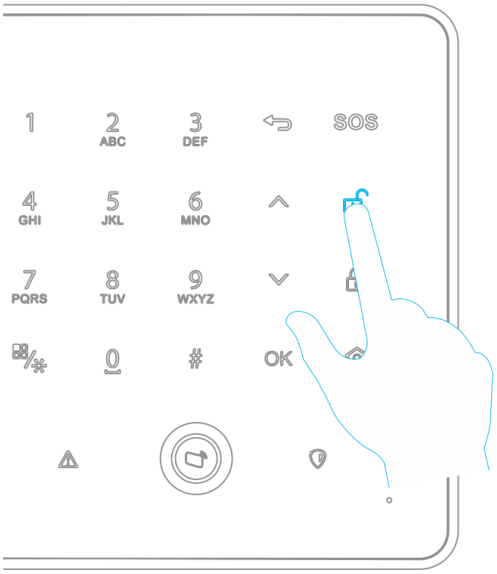


Figure 4-43

4.18.2 Arm and Disarm with Card

The system supports to arm and disarm by swiping card, but it is only valid for zones in “away arm” mode.

Note

Before arming, make sure that all designated zones are in “away arm” mode.

4.18.2.1 Arm

In disarmed status, swipe a card at card-swiping area. The system beeps all along, and enters exit delay countdown, LCD shows “Arm” at the top; zones with “away arm” mode enter armed status. Exit zones before countdown ends, which will not trigger alarm.

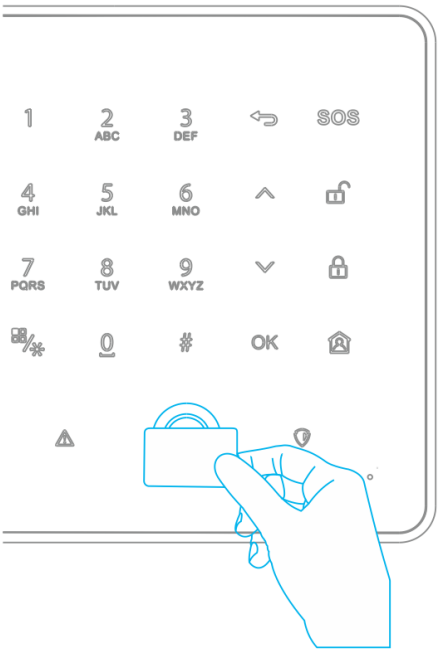


Figure 4-44

4.18.2.2 Disarm

In armed status, swipe a card at card-swiping area. The system beeps twice, and LCD shows “Disarm” at the top. Remove the last arm, and all zones enter disarmed status.

4.18.3 Arm and Disarm with Remote Control

The system supports to arm and disarm with remote control, so you can perform stay arm, away arm, disarm and SOS remotely.

Note

Before arming, make sure that all designated zones are in corresponding armed mode.

Figure 4-45

4.18.4 Arm and Disarm with Mobile Phone APP

The system supports to arm and disarm with mobile phone APP. For specific operation, please refer to user's manual of mobile phone APP.

4.19 Duress Password

The device supports duress password. When you enter duress password, the system will produce duress event alarm, and report alarm info with default linkage SMS and PSTN, which won't produce a log.

A duress password is to add "1" to the last digit of user password. If the last digit is "9", enter "0" as the last digit. For example, if a user password is "123456", so its corresponding duress password is "123457". If a user password is "123459", then its corresponding duress password is "123450".

4.20 View Zone Alarm Info

Press [3] in the homepage, and "Zone" interface will pop up, as shown in Figure 4-46.

means that the zone is in alarm status; means that the zone is in abnormal status; means that the zone is in offline status.

Note

In case of zone alarm in armed status, "Zone" interface will pop up automatically, so as to view zone info.

Figure 4-46

4.21 Sound Recording and Playback

4.21.1 Sound Recording

Press [ ] to record sound, at most 30s each time. Save it in system.

4.21.2 Playback

Press [ ] to play the last recording.

4.22 Video Preview

Press [ ] to preview video in the recording channel, press [ ] or [] to switch channels, and press [] to exit the preview.

Appendix 1 Operating Instructions of Input Method

During setting of some parameters, switch among English capital letter and small letter, number and symbol. For example, modify zone name to be door12 in the following steps.

Step 1 At zone configuration interface, press [^] or [v], select name text box and press [OK]. Input method will pop up, as shown in Figure 4-47.

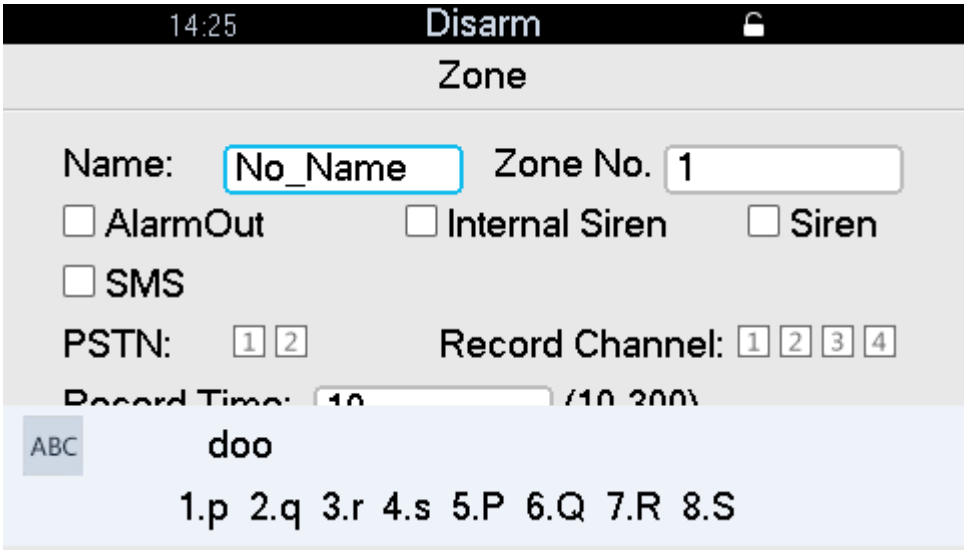


Figure 4-47

Step 2 Press [*] to switch to numeric input status, press numeric keys to input “12”, as shown in Figure 4-48.

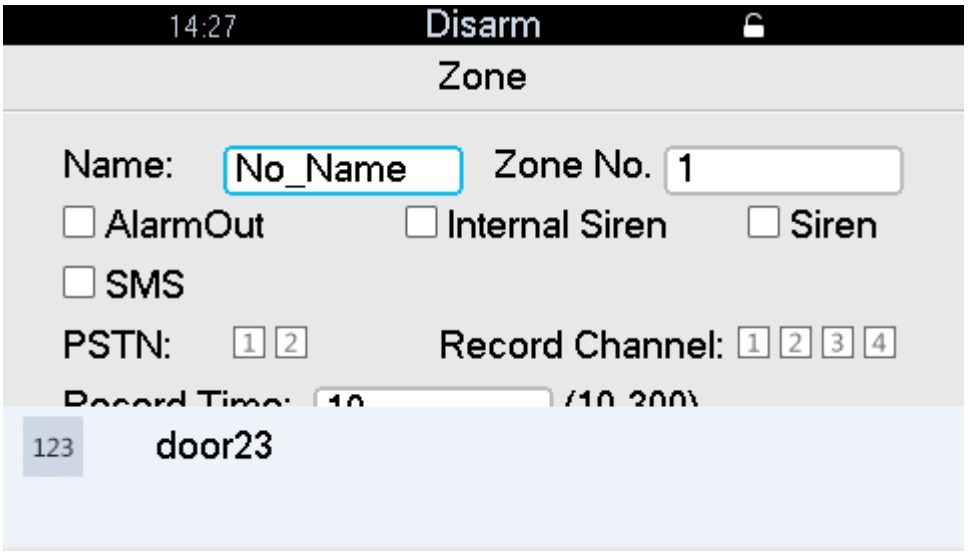


Figure 4-48

Step 3 Press [OK] to input info into the text box.

Note

When pressing numeric keys to select, press [^] or [v] to page up and down, in case that the required content doesn’t appear in the present page.