

Network Indoor Station

Configuration Guide

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The symbols that may be found in this document are defined as follows.

Symbol	Description
Danger	Indicates a hazardous situation which, if not avoided, will or could result in death or serious injury.
Caution	Indicates a potentially hazardous situation which, if not avoided, could result in equipment damage, data loss, performance degradation, or unexpected results.
Note	Provides additional information to emphasize or supplement important points of the main text.

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

CE

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 EMC Directive 2014/30/EU, RE Directive 2014/53/EU,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.

Power Source Detail

The power source should be qualified and meet limited power source or PS2 requirements according to IEC 60950-1 or IEC 62368-1 standard.

Contents

Chapter 1 About this Manual 1

Chapter 2 Activation 2

2.1 Activate via iVMS-4200 Client Software 2

Chapter 3 Local Operation 3

3.1 Quick Operation (For DS-KH6320EY-WTE2) 3

3.2 Quick Operation (For Normal Device) 8

3.3 Basic Settings 15

3.3.1 Set Indoor Station Network Parameters 16

3.3.2 Set Linked Device IP 17

3.3.3 Set Wi-Fi 19

3.3.4 Set Indoor Station No. 20

3.3.5 Video Intercom Settings 23

3.3.6 Add Camera 24

3.3.7 Zone and Alarm Settings 25

3.4 Password Settings 27

3.4.1 Change Admin Password 27

3.4.2 Security Settings 28

3.4.3 Modify Arm/Disarm Password 28

3.4.4 Modify Unlock/Duress Code 30

3.5 Synchronize Time 31

3.6 Sound Settings 32

3.6.1 Call Settings 32

3.6.2 Volume Settings 34

3.7 Via the mobile client 35

3.7.1 Link to the Mobile Client 35

3.7.2 Unlink the Account 36

3.8 System Settings 37
3.9 Output Settings 41
3.10 Device Information 42
Chapter 4 Remote Operation via the Client Software 43
4.1 Device Management 43
4.1.1 Add Video Intercom Devices 43
4.1.2 Modify Network Information 45
4.2 System Configuration 46
4.3 Remote Configuration 46
4.3.1 System 46
4.3.2 Video Intercom 52
4.3.3 Network 62
4.4 Person Management 66
4.4.1 Organization Management 67
4.4.2 Person Management 68
Appendix A. Relevant Instructions for External Power Supply and Wiring of 2-wire Video Intercom Products (2020-1-20) 71

Chapter 1 About this Manual

Get the manual and related software from or the official website (http://www.hikvision.com).

Product	Model
Network Indoor Station	DS-KH6320 Series DS-KH6350 Series DS-KH6351 Series DS-KH6381 Series DS-KH6380 Series DS-KH8560 Series DS-KH6360 Series DS-KH8350 Series DS-KH8520 Series

Chapter 2 Activation

2.1 Activate via iVMS-4200 Client Software

You can only configure and operate the indoor station after creating a password for the device activation.

Before You Start

Default parameters of indoor station are as follows:

- Default IP Address: 192.0.0.64.
- Default Port No.: 8000.
- Default User Name: admin.

Steps

1. Run the client software, enter **Device Management**, check the **Online Device** area.
2. Select an inactivated device and click the **Activate**.
3. Create a password, and confirm the password.

   Note

   We highly recommend you to create a strong password of your own choosing (using a minimum of 8 characters, including at least three kinds of following categories: upper case letters, lower case letters, numbers, and special characters) in order to increase the security of your product. And we recommend you change your password regularly, especially in the high security system, changing the password monthly or weekly can better protect your product.

4. Click **OK** to activate the device.

Chapter 3 Local Operation

3.1 Quick Operation (For DS-KH6320EY-WTE2)

After device activation, the wizard page will pop up.

Steps

Note

The description is for DS-KH6320EY-WTE2.

1. Choose language and tap **Next**.

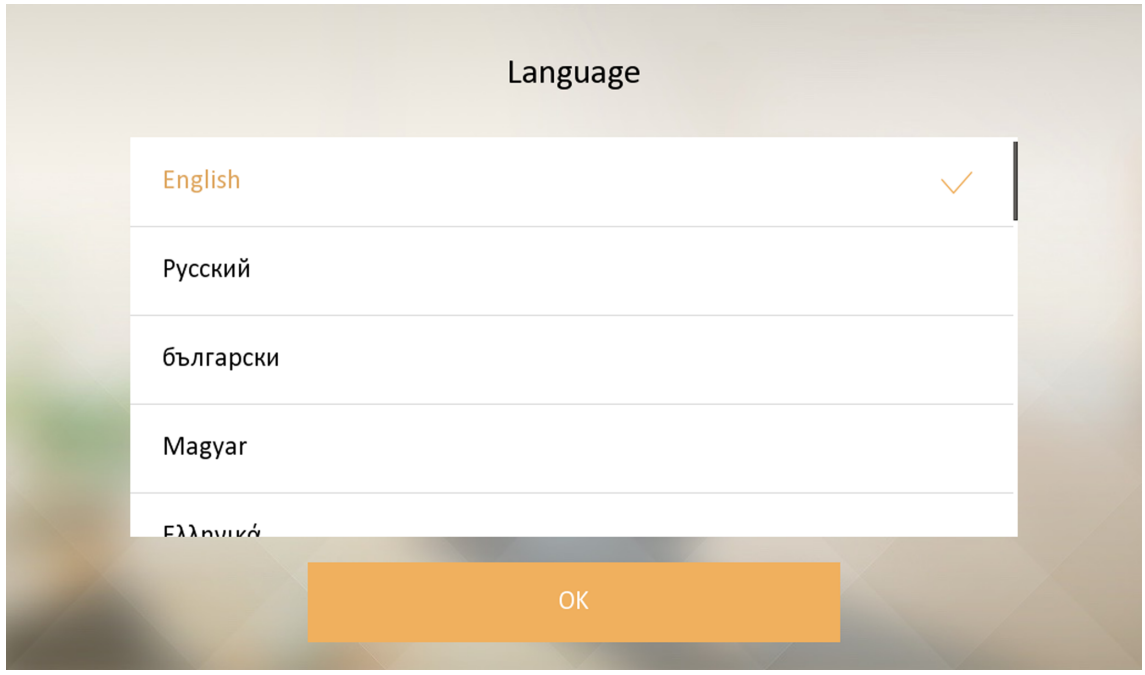

Figure 3-1 Language Settings

2. Activate the device. Create a password and confirm it. Tap **OK**.

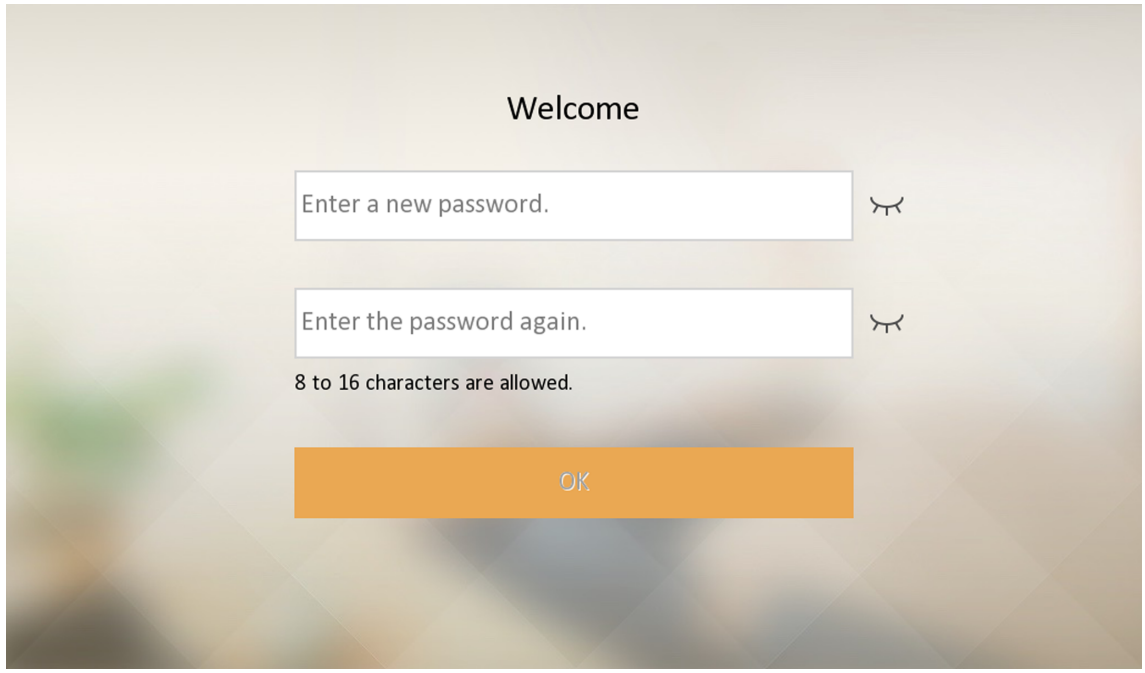

Figure 3-2 Activate

3. Set password reset methods and tap **Next**.

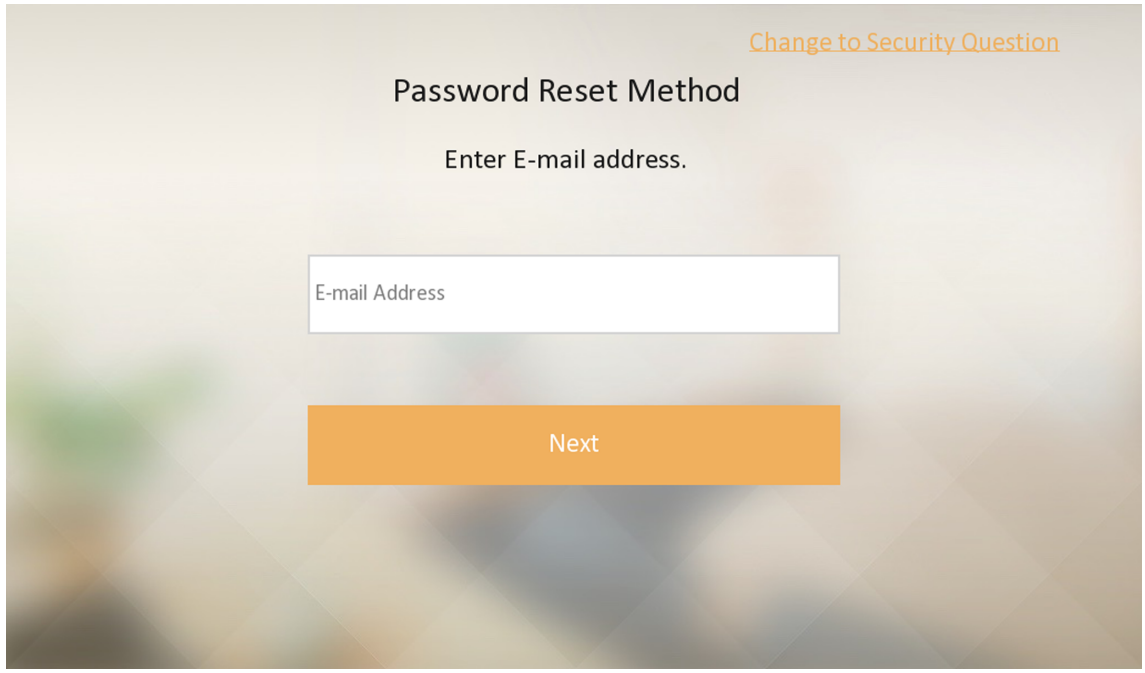

Figure 3-3 Password Reset Page

- Bind an email address. If you forget your admin password (activation password), you can change the password via the reserved email address.

- (Optional) Tap **Change to Security Question** to select security questions and enter the answers. If you forget your admin password (activation password), you can change the password via answering the questions.

4. Set Wi-Fi.

1) Enable the Wi-Fi function. The searched Wi-Fi will be displayed in the list.
2) Select a Wi-Fi and enter the Wi-Fi's password.
3) Tap **Next**.

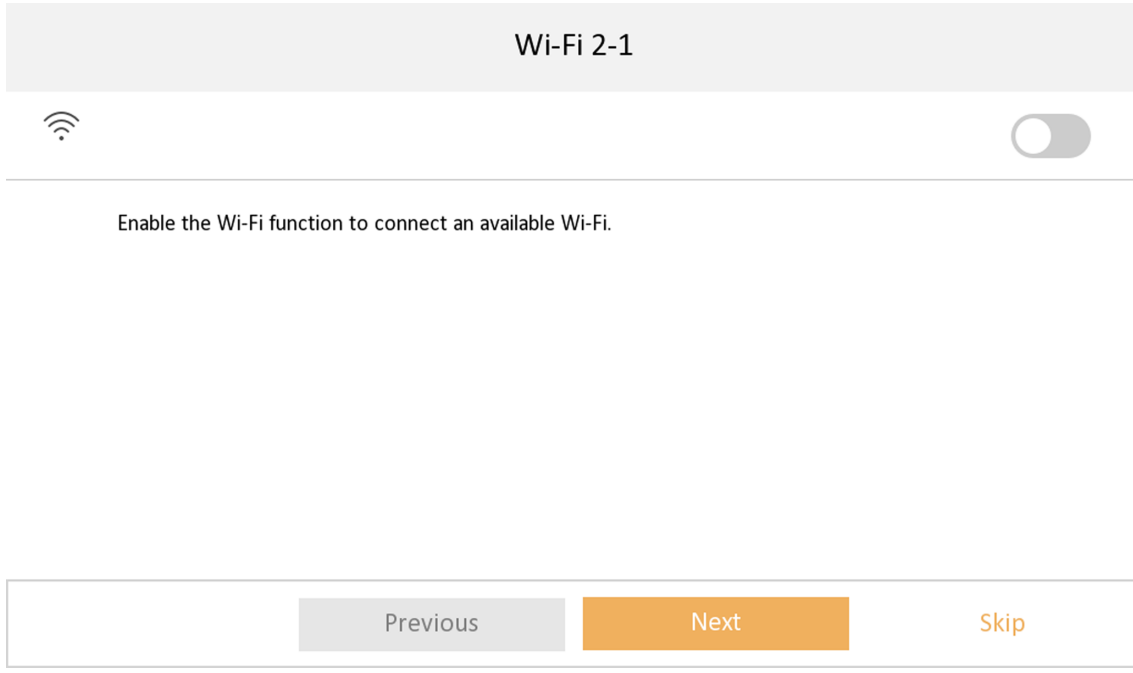

Figure 3-4 Wi-Fi Settings

5. Device pairing.

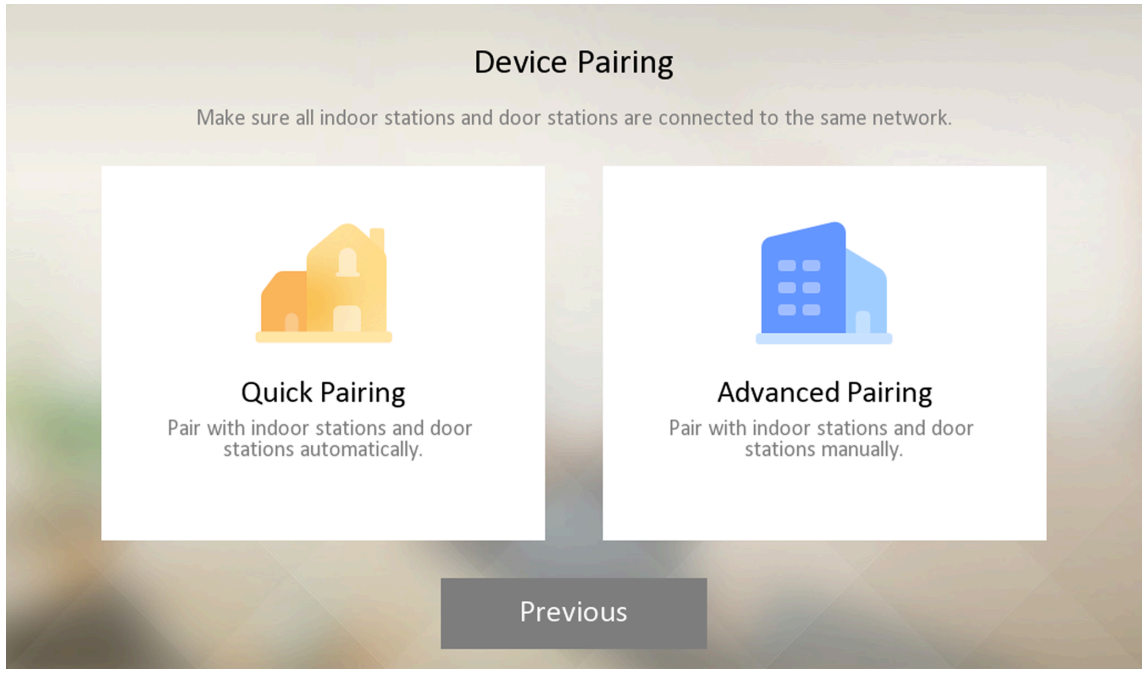

Figure 3-5 Select Device Pairing Mode

- **Quick pairing:** The indoor station and the door station will be paired automatically.

  1. Set the indoor station's room No. and tap **Next**.

  2. Select the door station that you need to connect. The door station with the same LAN as the indoor station will be displayed in the list.

  Note

  If select multiple door stations, uncheck the main door station, and tap **Main** to change a main door station, and the others are sub door stations.

  3. Select the indoor extension that need to connect. The indoor extension with the same LAN as the indoor station will be displayed in the list.

- **Advanced Pairing:** The indoor station and the door station should be paired manually.

  1. Set the indoor station's floor No., room No., build No., unit No.

  2. Set the indoor station's wired network parameters, you can choose to enable DHCP or manually set the IP address, subnet mask, and default gateway.

  3. Select the door station that you need to connect. The door station with the same LAN as the indoor station will be displayed in the list.

  Note

  If select multiple door stations, uncheck the main door station, and tap **Main** to change a main door station, and the others are sub door stations.

4. Select the indoor extension that you need to connect. The indoor extension with the same LAN as the indoor station will be displayed in the list.

6. After the devices are paired, tap **Test**. The video intercom will be completed is the devices are connected properly.
7. Configure the **Hik-Connect** service settings. After you enable the function, you can control the video intercom device via the mobile App.
   1) Enable **Hik-Connect** service.
   2) Edit verification code or use the activation password by default.
   3) View **Hik-Connect** Server Status.
   4) Scan the first QR Code to download the APP of **Hik-Connect**. Scan the second QR Code to add your device to the APP. After adding the device to the APP, you can configure the device remotely.
   5) Tap **Next**.

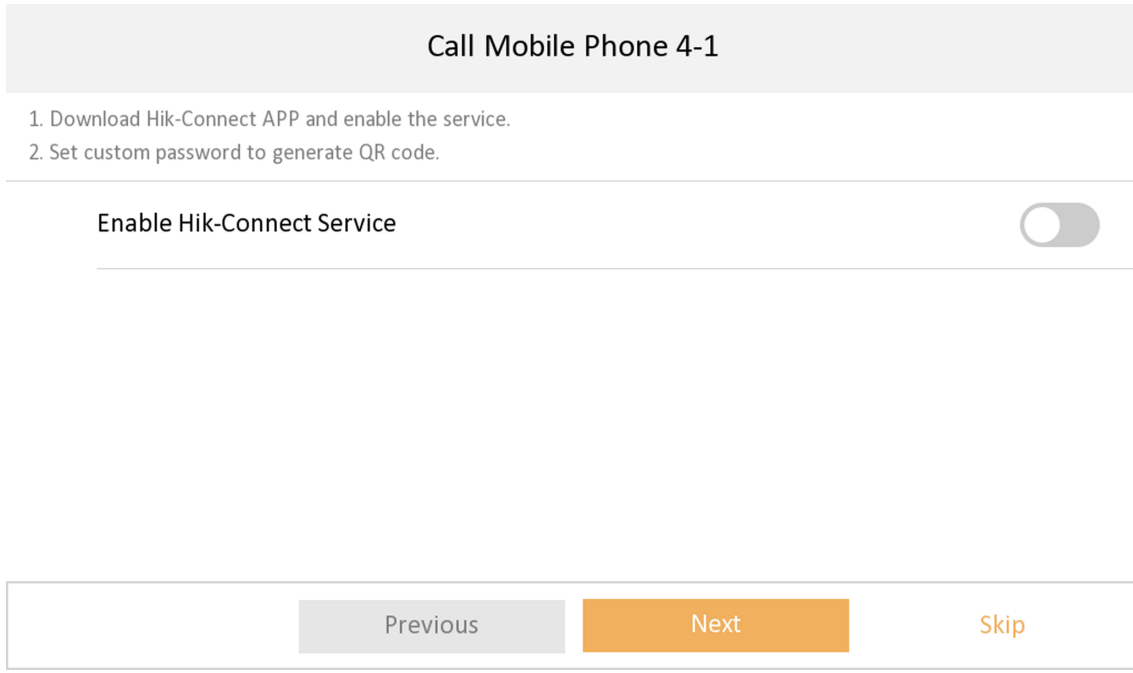

Figure 3-6 Hik-Connect Service Settings

8. Set time and tap **Next**.
   1) Select the **Time Zone**.
   2) Tap **Date Format** and **Time Format** to set the time format, which will displayed on the home page.
   3) Tap **Time** to set time manually.
   4) Enable **DST**.Set the DST start time, end time and bias time.

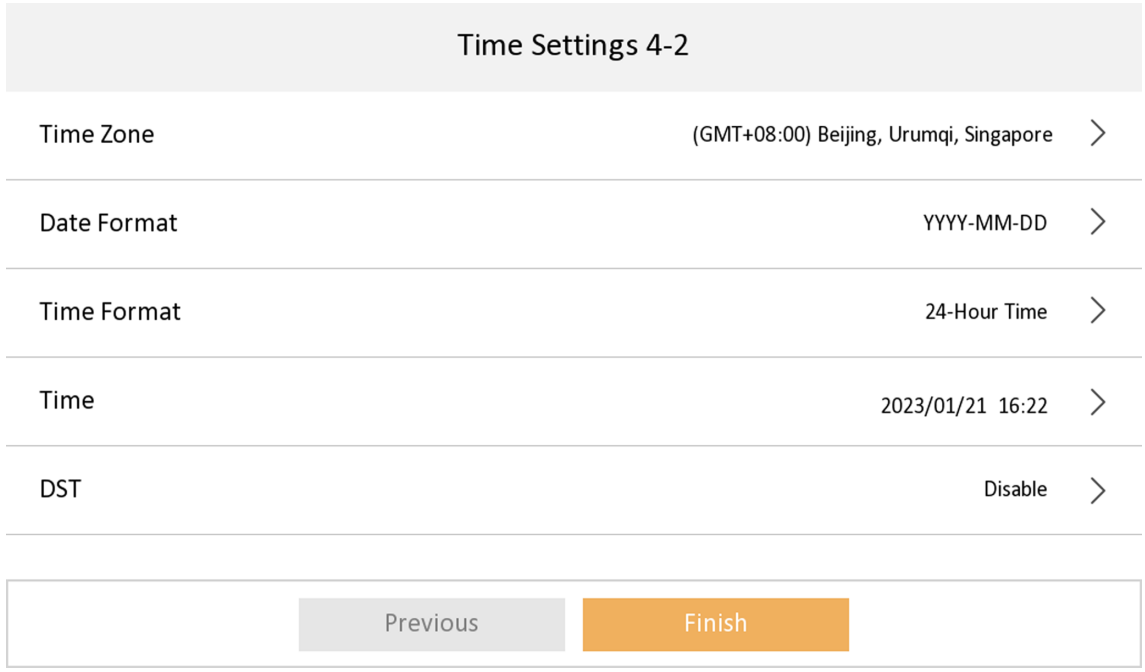

Figure 3-7 Time Settings

9. Tap **Finish** to complete the settings.

3.2 Quick Operation (For Normal Device)

After device activation, the wizard page will pop up. The description is for other indoor stations.

Steps

1. Choose language and tap **Next**.

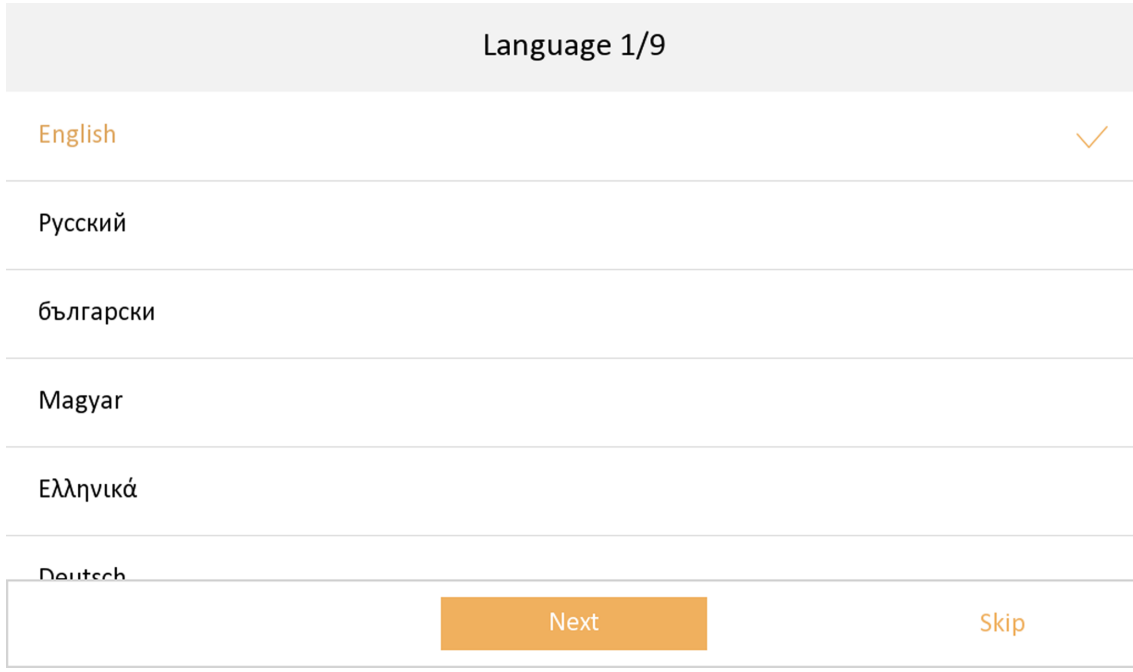

Figure 3-8 Language Settings

2. Set password reset methods and tap **Next**.

- Bind an email address. If you forget your admin password, you can reset the password via the reserved email address.
- Tap **Change to Security Question** to select security questions and enter the answers. If you forget your admin password, you can reset the password via answering the questions.

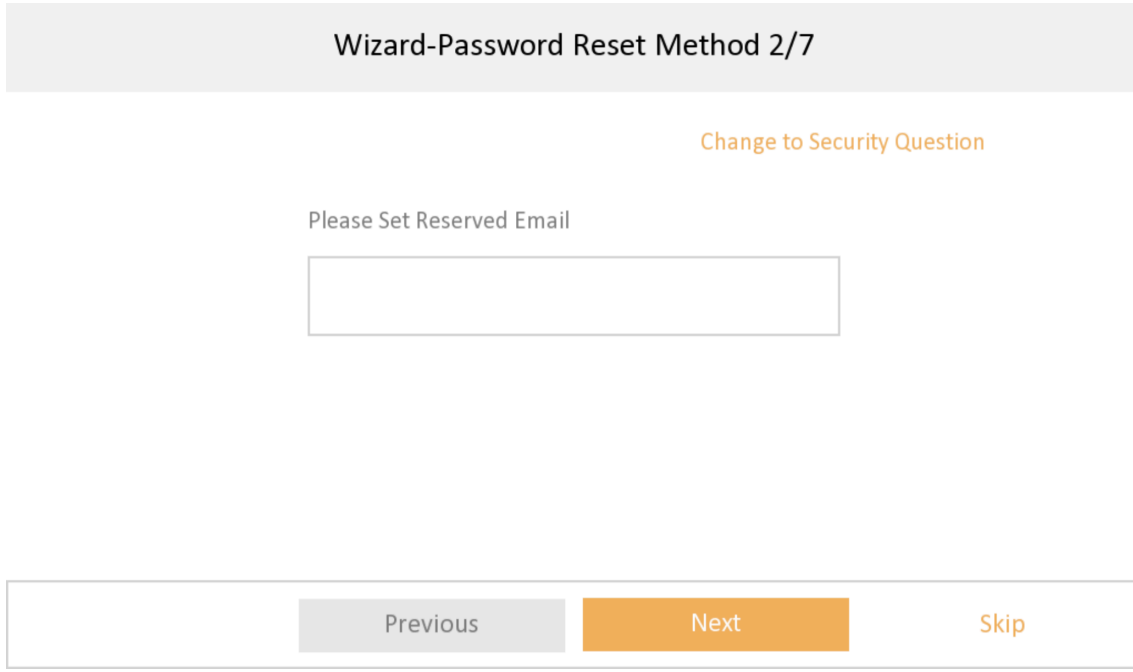

Figure 3-9 Password Reset Methods

3. Set network parameters and tap **Next**.
   - Edit **Local IP**, **Subnet Mask** and **Gateway** parameters manually.
   - Enable **Auto Get IP address**, the device will get network parameters automatically.

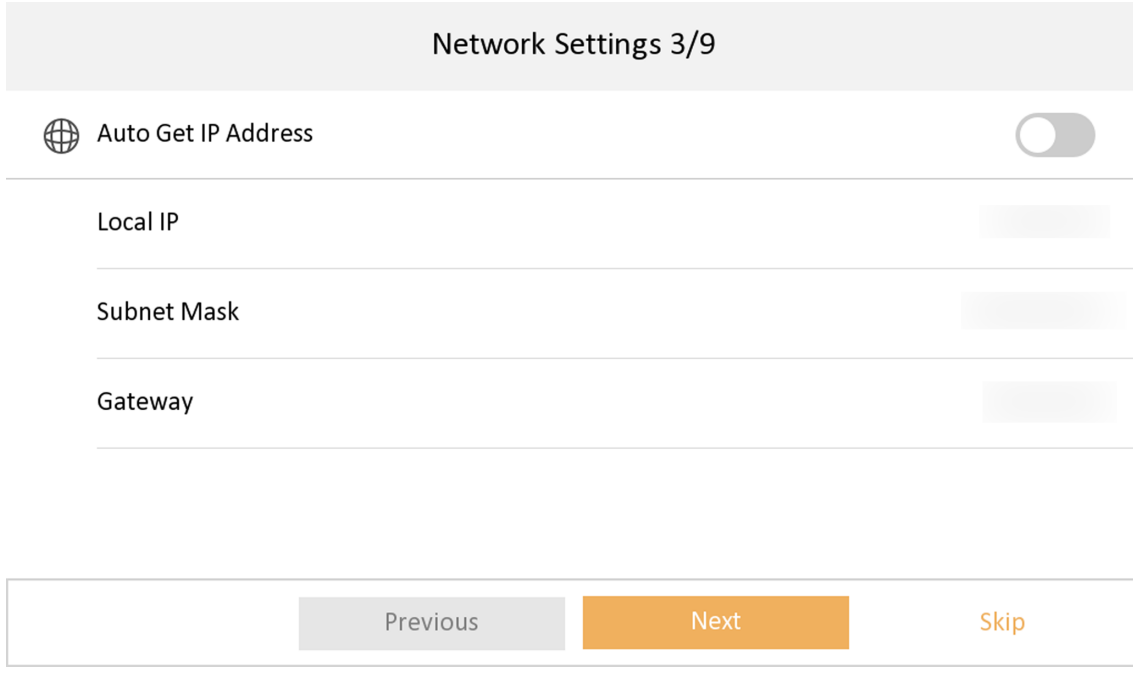

Figure 3-10 Network Parameters

4. Configure the indoor station.
   1) Select **Device Type** as **Indoor Station** or **Indoor Extension**.
   2) Set **Floor No.**.
   3) Set **Room No.**.
   4) Configure advanced settings. Set Comminity No., Building No. and Unit No.
   5) Set **Registration Password**.
   6) Tap **Next**.

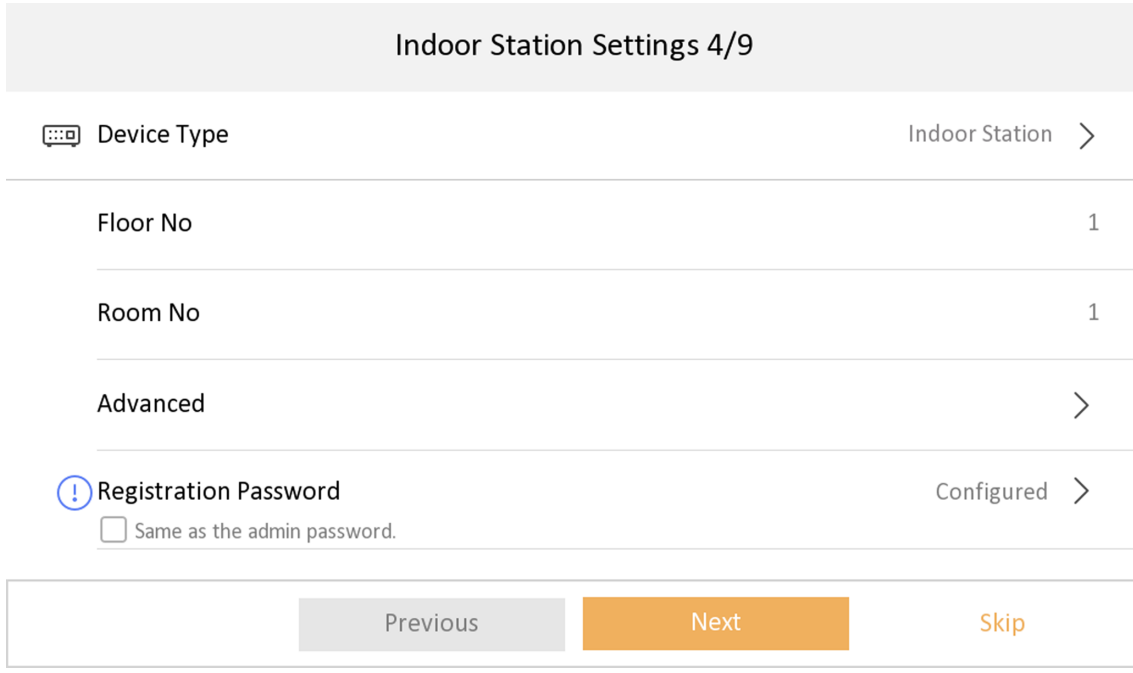

Figure 3-11 Indoor Station Settings

5. Enable the Wi-Fi function. Select a Wi-Fi from the list and enter the Wi-Fi's password to get connected. Tap **Next**.

Note

The device should support Wi-Fi.

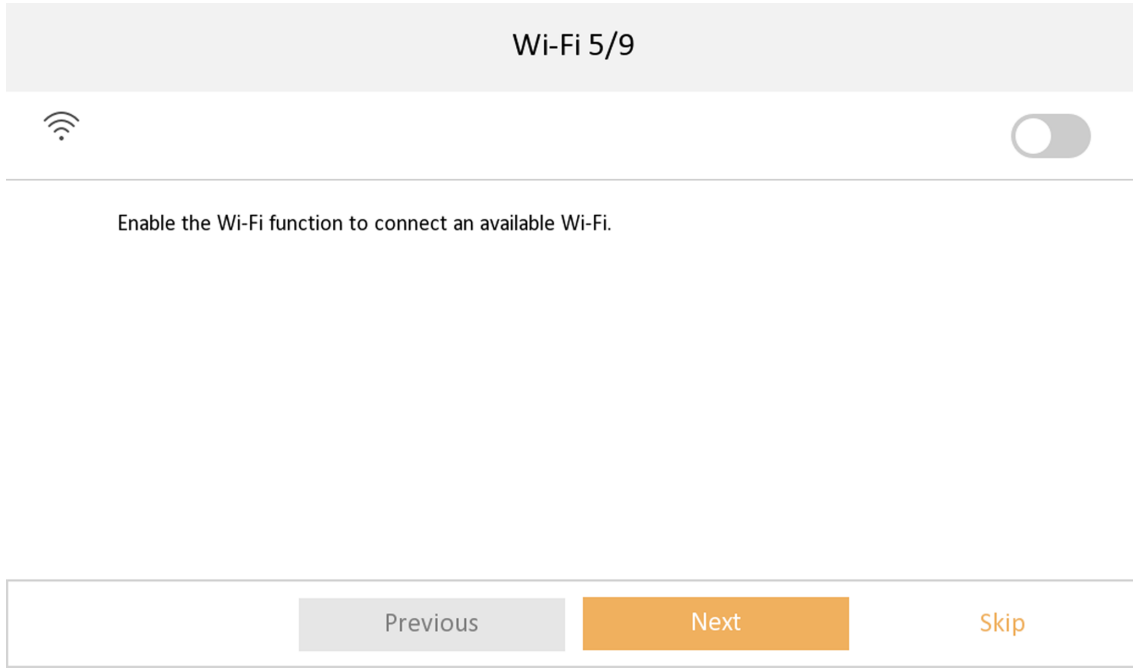

Figure 3-12 Wi-Fi

6. Set time and tap **Next**.
1) Select the **Time Zone**.
2) Tap **Date Format** and **Time Format** to set the time format.
3) Tap **Time** to set time manually.
4) Enable **DST**.Set the DST start time, end time and bias time.

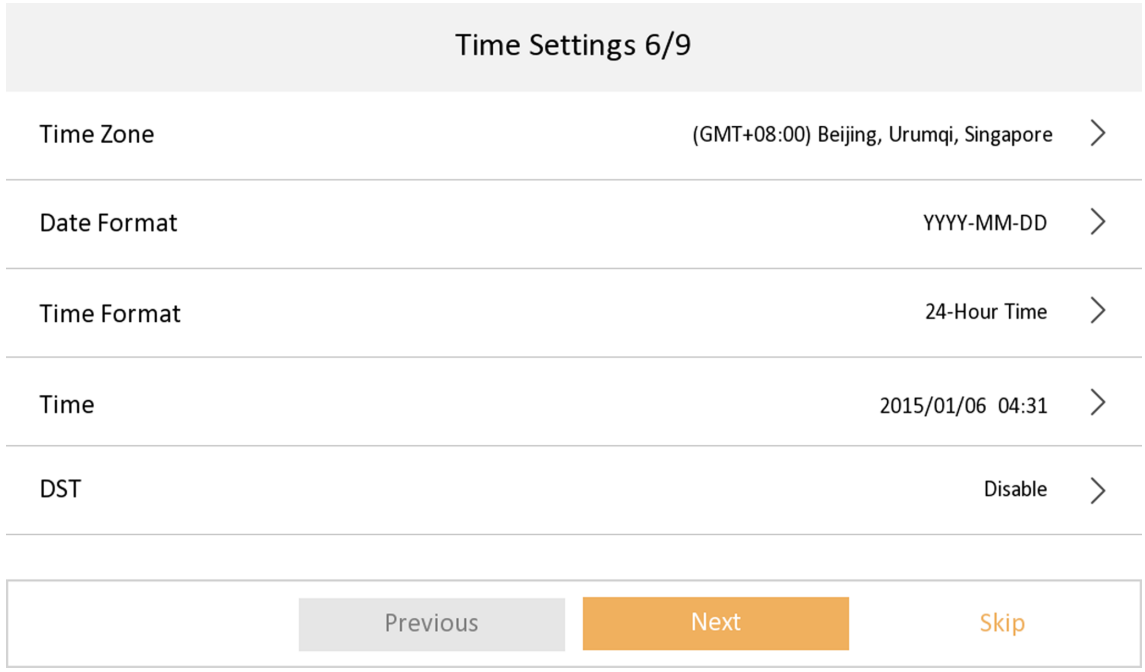

Figure 3-13 Time Settings

7. Configure the **Hik-Connect** service settings.

1) Enable **Hik-Connect** service.
2) Edit verification code or use the activation password by default.
3) View **Hik-Connect** Server Status.
4) Scan the first QR Code to download the APP of **Hik-Connect**. Scan the second QR Code to add your device to the APP. After adding the device to the APP, you can configure the device remotely.
5) Tap **Next**.

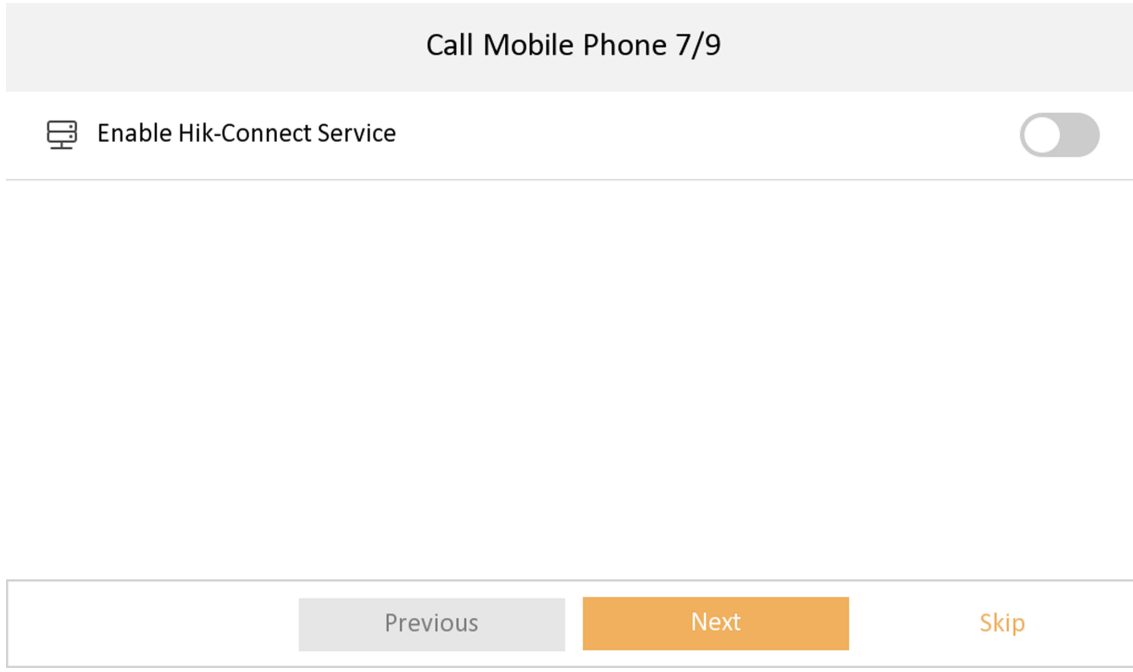

Figure 3-14 Guarding Vision Service Settings

8. Link related devices and tap **Next**. If the device and the indoor station are in the same LAN, the device will be displayed in the list. Tap the device or enter the serial No. to link.

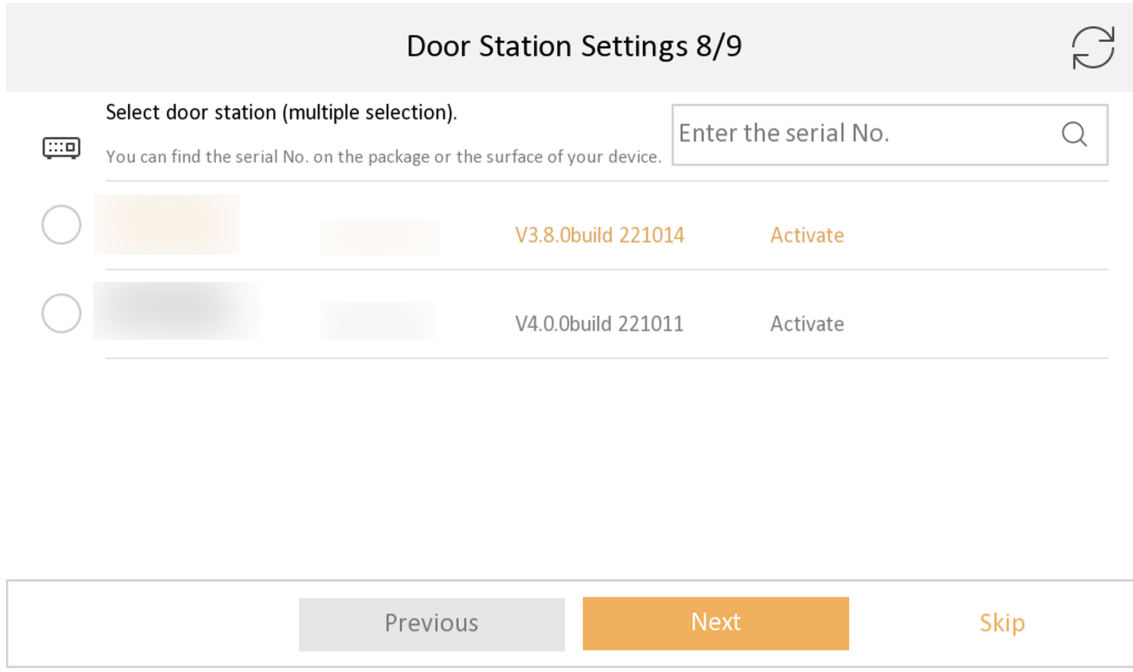

Figure 3-15 Related Device

1) Tap the door station in the list to link.

Note

If the door station is inactive, the system will pop up the dialog to activate the door station.

2) Edit the network parameters of the door station manually.

3) Tap **Next**.

9. **Optional:** Enable **Indoor Station** and link related indoor extension devices. Tap **Finish**. If the indoor extension and the indoor station are in the same LAN, the device will be displayed in the list. Tap the device or enter the serial No. to link.

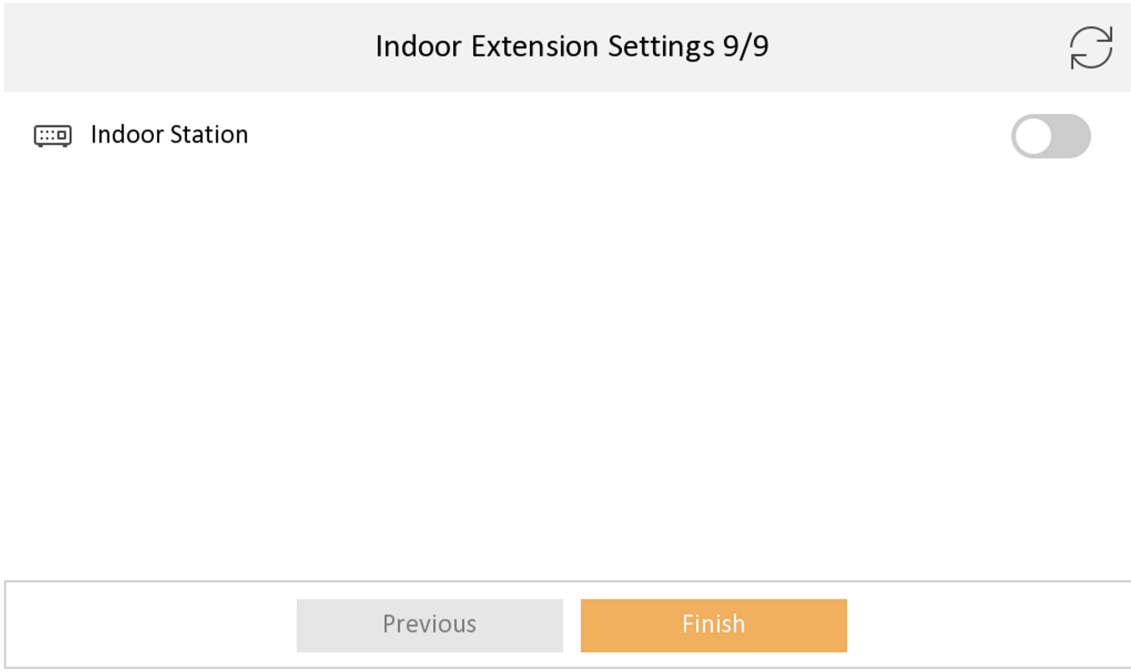

Figure 3-16 Related Device

1) Tap the indoor extension in the list to link.

Note

If the indoor extension is inactive, the system will pop up the dialog to activate the device.

2) Edit the network parameters of the indoor extension manually.

10. Tap **Finish** to save the settings.

3.3 Basic Settings

Basic settings is required before starting using the indoor station. It is necessary to set the indoor station network, room No., linked devices, device time display, and so on.

3.3.1 Set Indoor Station Network Parameters

Network connection is mandatory for the use of the indoor station. Set the network parameters after activating the indoor station. Only when the IP address of the indoor station is in the same network segment as other devices, it can work properly in the same system.

Steps

Note

The default IP address of the indoor station is 192.0.0.64.

Two ways are available for you to set IP address: DHCP, and set IP address manually.

1. Tap **Settings** → → **Configuration** , and enter admin (activation) password.
2. Tap to enter the network settings page.

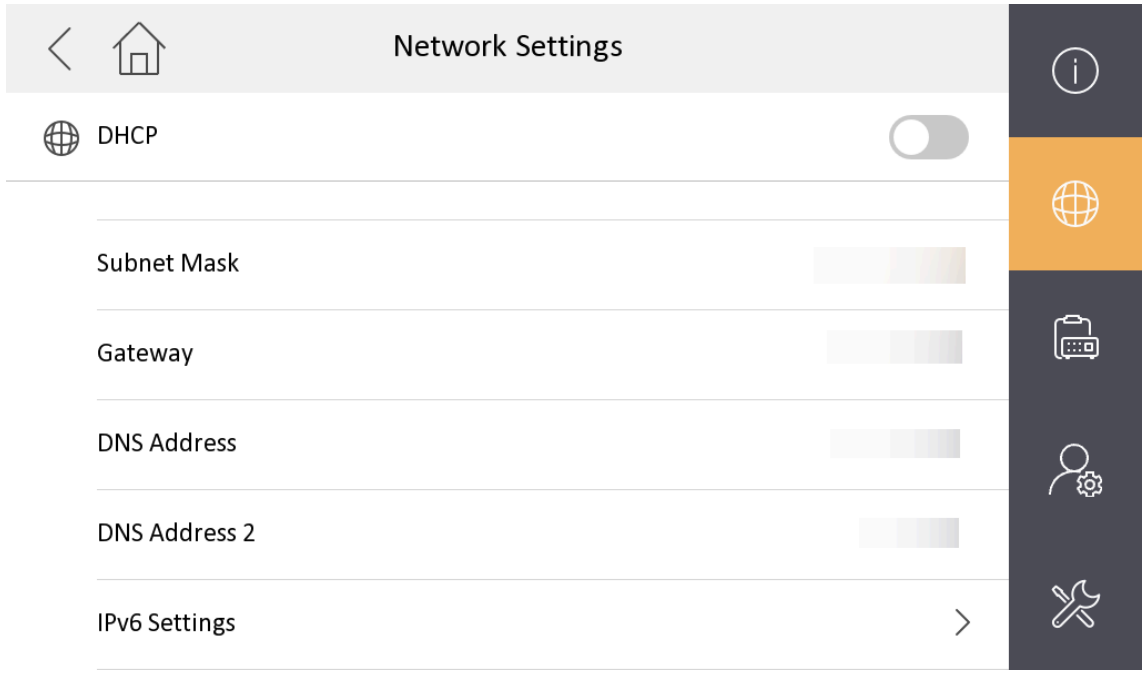

Figure 3-17 Network Settings

3. Set the network parameters.
   - Enable **DHCP**, and the system can assign an IP address of the indoor station automatically.
   - Disable the DHCP function, and set the IP address manually. You should set the device IP address, the gateway, the DNS address.
4. Tap **IPv6 Settings**, then slide to **Enable IPv6** based on your actual need. If enabled,you'll need to choose IPv6 Mode, set IPv6 Address, Gateway etc..

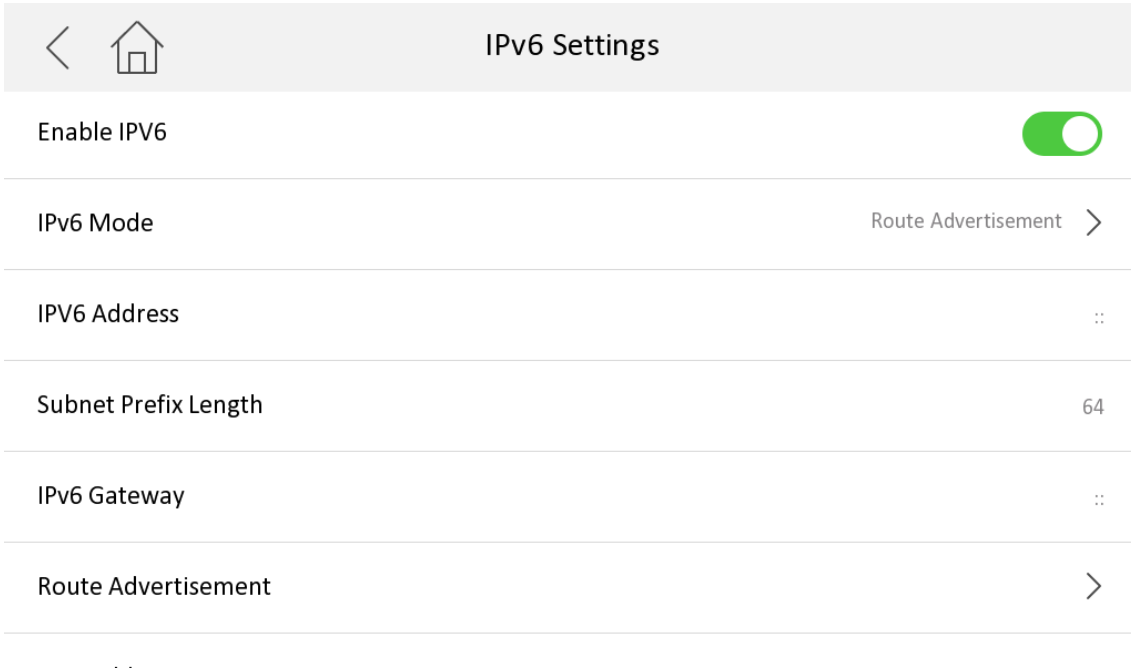

Figure 3-18 IPv6 Settings

IPv6 Mode

Manual

Manually set IPv6 address, IPv6 subnet prefix length, and IPv6 default gateway.

DHCP

The system will allocate IPv6 address, IPv6 subnet prefix length, and IPv6 default gateway.

Route Advertisement

A mechanism for automatic address configuration in the IPv6 protocol stack. The device can complete IPv6 address configuration as long as there are routers in the environment that can provide routing notification messages.

Click **View Route Advertisement** to view the IPv6 address list.

3.3.2 Set Linked Device IP

Linked network parameters refers to the network parameters of devices (like door station, doorphone, main station, center, etc.), to which the indoor station is linked. Linked devices for the indoor station refers to door station, center, main station, and doorphone.

With the private SIP protocol, intercom can be realized only when all these devices are in the same network segment with the indoor station.

With the standard SIP protocol, intercom can be realized when all these devices support the standard SIP protocol.

Steps

Note

- The doorphone does not support adding with the standard SIP protocol.
- Here take main door station network settings as example.

1. Tap **Settings** → → **Configuration** → to enter the device management page.

   Note

   Default admin password is the activation password.

2. Tap **Main Door Station** to pop up the device information dialog.

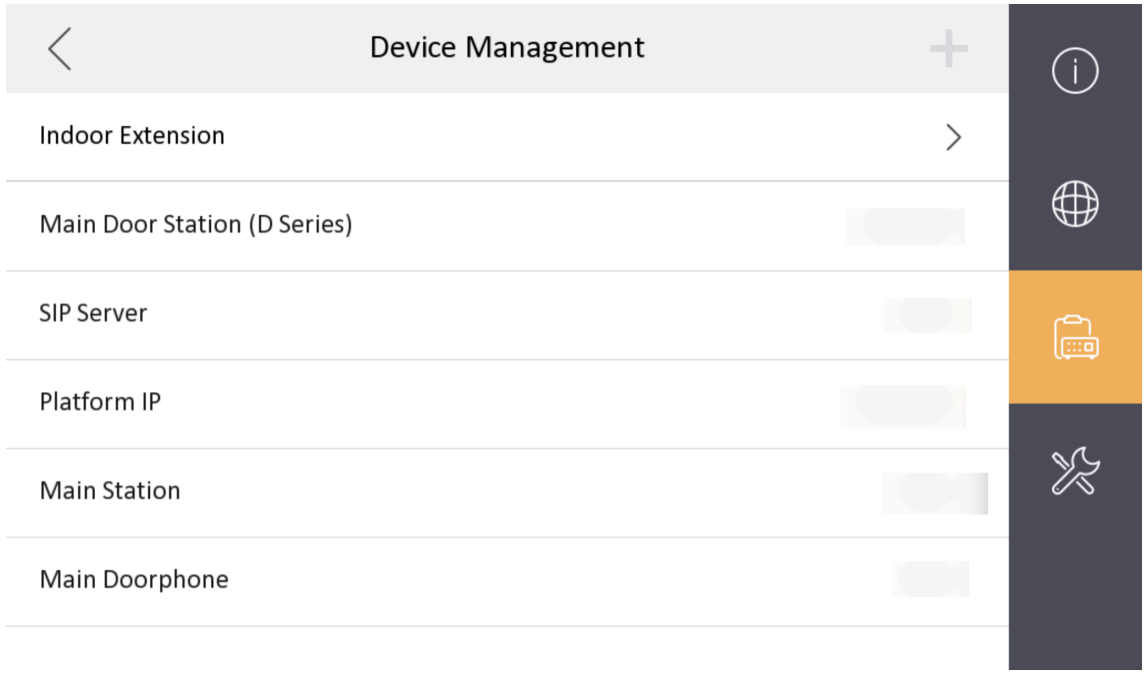

Figure 3-20 Device Information

Set the parameters of the linked door station. Tap to set parameters of the door station.

3. Select a device to link. Edit the following parameters.

Name

You can edit the name of the device.

Language

Select a language from the drop-down list for the device.

Network

Enable **Auto Get IP Address** and the system will assign IP address, subnet mask, and gateway automatically. Or edit the IP address, subnet mask, and gateway manually.

Door Lock Parameters

After wire the lock with the door station, you can set name and door opening duration according to your needs.

Note

Up to 2 locks can be configured.

Volume Settings

Set microphone volume and output volume.

Call Number Settings

The call No. should be the same as the indoor station's room No. If press the call button of the door station, you can call the indoor station directly.

Public Password

You can use the public password to open the door station related door lock. Select the public password type. Enter the old password and new password and then confirm the new password. Tap **OK** to save the settings.

Restore to Default Settings

Restore All

All parameters will be restored to the factory settings. The system will reboot to take effect.

Device Reboot

Reboot the device.

3.3.3 Set Wi-Fi

Some indoor station support Wi-Fi connection.

Note

Parts of models support setting Wi-Fi. For details, refers to actual product.

Tap **Settings** → to enter the Wi-Fi Settings page. Enable **Wi-Fi**. Select a Wi-Fi from the list and enter the password of the Wi-Fi, and the indoor station can connect to the Wi-Fi.

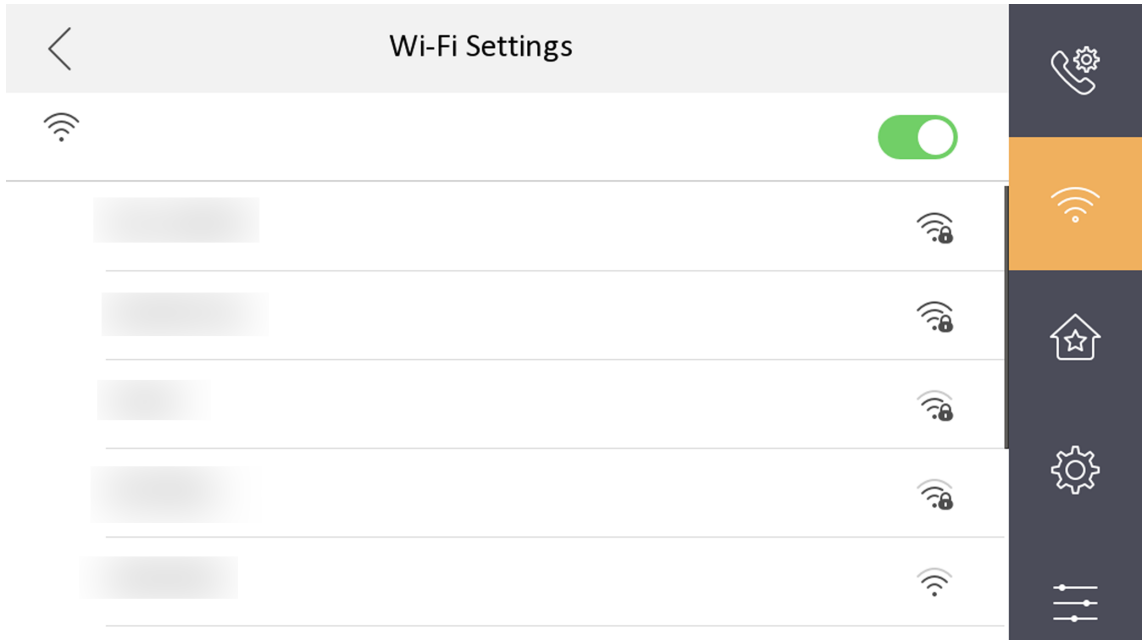

Figure 3-21 Wi-Fi Settings

3.3.4 Set Indoor Station No.

Indoor station No. and the indoor extension No. are numbers, which can be dialed by other devices to call the indoor station and the indoor extension in an intercom system. The indoor station No., is composed of the floor No., room No., community No., building No. and unit No.

The indoor extension No. Should be a numeric from 1 to 5.

Up to 5 indoor extensions can be set for 1 indoor station.

Steps

1. Tap **Settings** → → **Configuration** → to enter the indoor station No. settings page.

Note

Default admin password is the activation password.

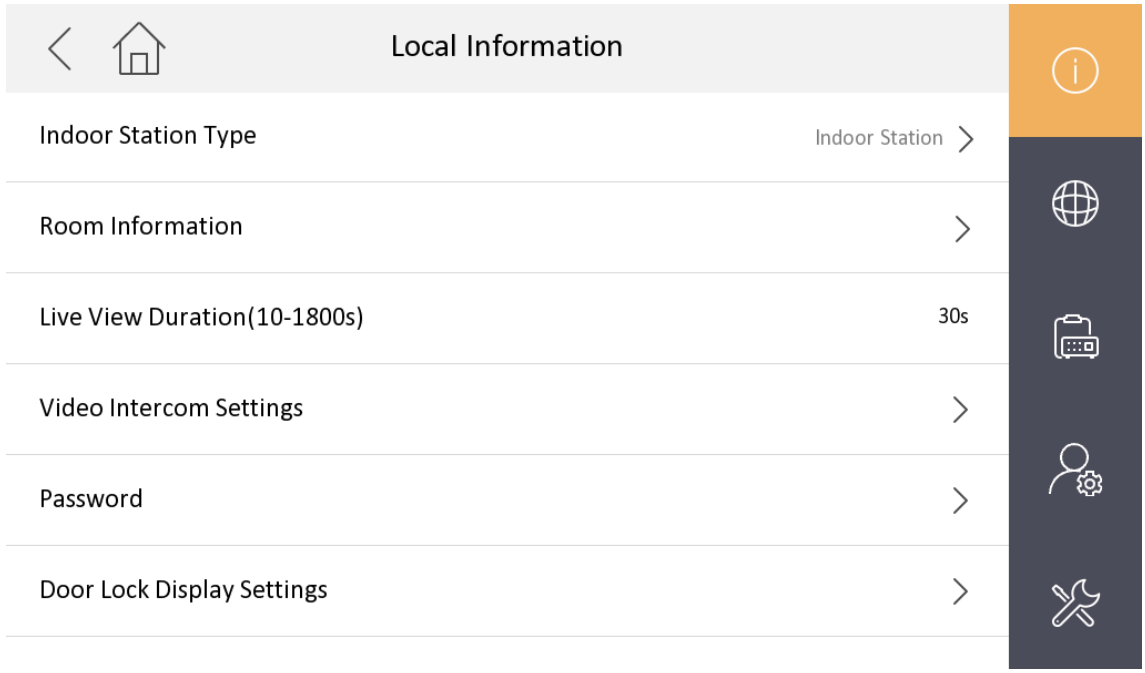

Figure 3-22 Set Indoor Station No.

2. Select **Indoor Station** to set the room information, live view duration, video intercom settings, password and door lock display settings.

Room Information

You can set room name, floor No., and room No. Tap **Advanced Settings** to set community No., building No. and unit No. if you need.

Note

- Community No., building No., and unit No. can be omitted if there is no such information.
- If there are two indoor stations that are in the same building, and should call each other, enter the the room No. directly to call.
- If there are two indoor stations that are in two buildings, and should call each other, enter the building No. and the room No. to call. For examle, call 1-405 to call room 405 in building 1.

Live View Duration

You can set the duration of live view.

Video Intercom Settings

You can set SIP parameters. For more details, please refer to: ***Video Intercom Settings***

Password Settings

You can set unlock password and duress code.

Door Lock Display Settings

Slide to choose which locks to be displayed on the unlock page. You can also choose to display one lock or two locks on the unlock page.

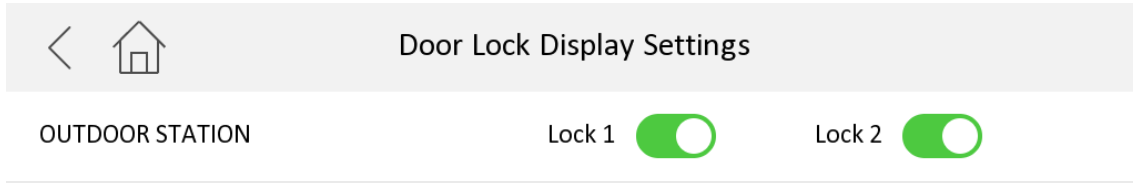

Figure 3-23 Door Lock Display

3. Select **Indoor Extension** to set the room information, live view duration, registration password and enable **SIP 1.0** according to your needs.

Room Information

You can set room name and No. Tap **Advanced** to set the community No., building No., and unit No. if you need.

When calling the indoor station and the two devices are in the same building, you can call the room No. directly.

If

Live View Duration

You can set the duration of live view.

Registration Password

You can create a new SIP registration password.

Enable SIP 1.0

You can enable SIP 1.0 protocol according to your needs.

3.3.5 Video Intercom Settings

Devices can communicate with each other via SIP protocol. You create set the SIP register password, enable standard SIP and set VOIP account.

Steps

1. Tap **Settings** → → **Configuration** , and enter admin (activation) password.
2. Tap **Video Intercom Settings** in Local Information Page.

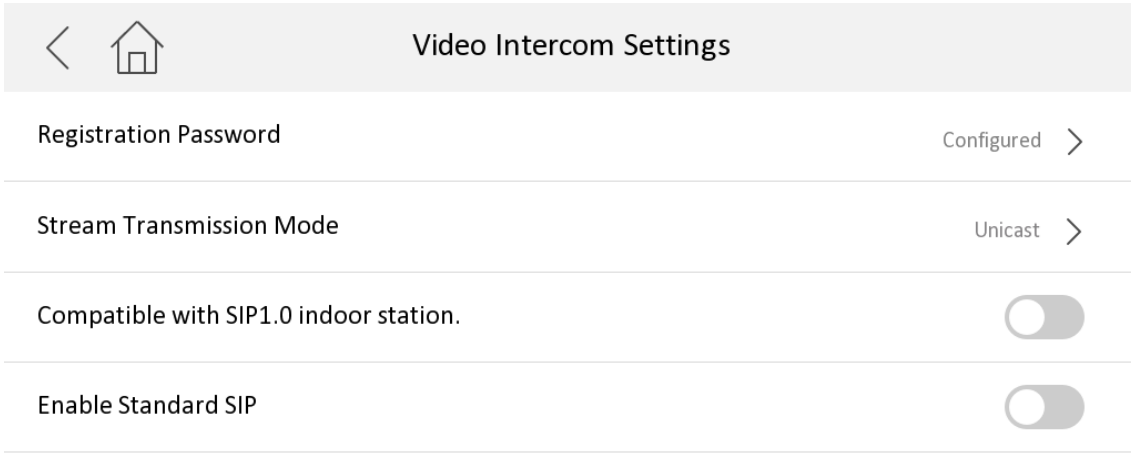

Figure 3-24 Video Interccom Settings

3. Set SIP registration password.
   1) Tap **Registration Password**.
   2) Create a new SIP registration password and confirm the password.
   3) Tap **OK**.
4. **Optional:** Enable **Compatible with SIP 1.0 Indoor Station** and the indoor station (SIP 2.0) can be compatible with SIP 1.0 indoor station.
5. **Optional:** Enable standard SIP and you can access to the third party devices.
   1) Slide to **Enable Standard SIP**.
   2) Tap **VOIP Account Settings** and configure the account information, including the user name, the phone number, the registered user name, the password, the domain, the port No., and the expiration date.

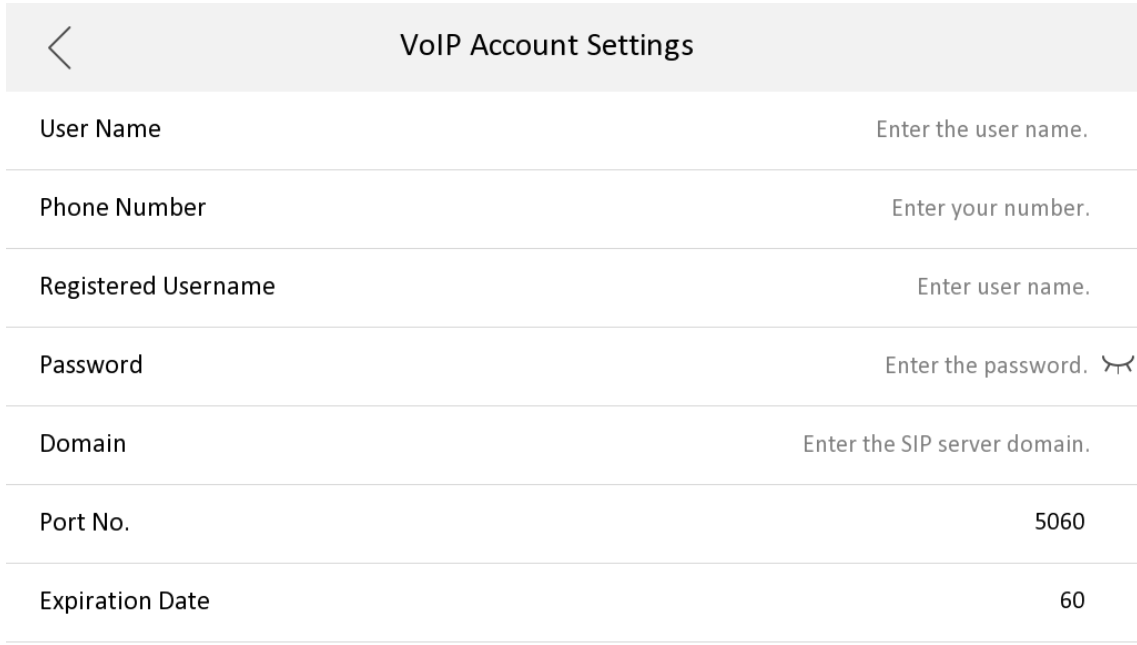

Figure 3-25 VOIP Account Settings

Note

Up to 32 characters are allowed in the user name.

3.3.6 Add Camera

Steps

1. Tap **Settings** → → **Configuration** , and enter admin (activation) password.
2. Tap to enter the device management page.
3. Tap **+** to pop up the dialog box.
4. Select a protocol to add the camera.
   - Select **HIK Protocol** and you can add the camera depended on the **HIK protocol**.

     Enter the device name, IP address, user name and the password of the camera. Edit port No. and channel No.

     Exit the page to save the settings.
   - Select **Open Network Video Interface** to add the camera.

     Enter the device name, IP address, user name and the password of the camera.

     Exit the page to save the settings.

3.3.7 Zone and Alarm Settings

Zone Settings

You can set the zone type, alarm type and delay time and other parameters of 8 zones.

Before You Start

Tap **Settings** → → **Shortcut Settings** , and enable **Alarm**.

Steps

Note

Arming status page and zone settings page are hidden by default. You should enable alarm function first.

1. Tap **Settings** → → **Zone Settings** to enter the zone settings page.

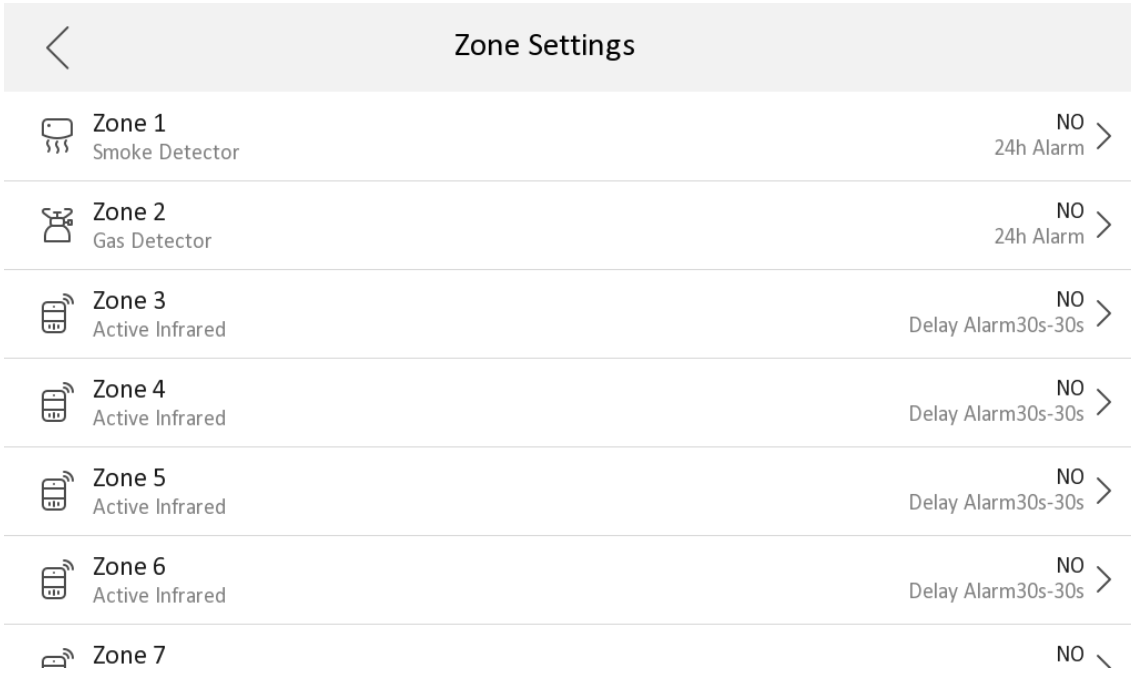

Figure 3-26 Zone Settings

2. Press a zone to pop up the zone editing dialogue box.
3. Set the zone type, alarm type, status of arming status, entering delay, and exiting delay.
4. Tap **OK** to save the settings.

Note

- 7 zone types are selectable: Panic Button, Door Magnetic, Smoke Detector, Active Infrared, Passive Infrared, Gas Detector, and Doorbell.
- 3 alarm types are selectable: 24h Alarm, Instant Alarm, and Delay Alarm.
  Set the alarm type as 24h alarm, and the zone will be armed for 24h.
  Set the alarm type as instant alarm, and the zone will alarm once it's triggered.
  Set the alarm type as delay alarm, and you should set the entering delay duration and exiting delay duration.
- Both the entering delay duration and the exiting delay duration are from 30s to 60s.
- For Gas Detector, Smoke Detector and doorbell, the alarm type is set as default 24h alarm. The alarm type of them can not be changed.

Arming Mode Settings

4 arming modes can be configured: stay mode, away mode, sleeping mode and custom mode.

Before You Start

Tap **Settings** → → **Shortcut Settings** to enable **Alarm**.

Steps

Note

On the home page, the arming status function and zone settings function are hidden by default. You should enable the alarm function first.

1. Back to the home page, tap **Settings** → → **Scene Settings** to enter the arming mode settings page.
2. Tap **Stay Mode**, **Away Mode**, **Sleeping Mode**, or **Custom** to enter the page.

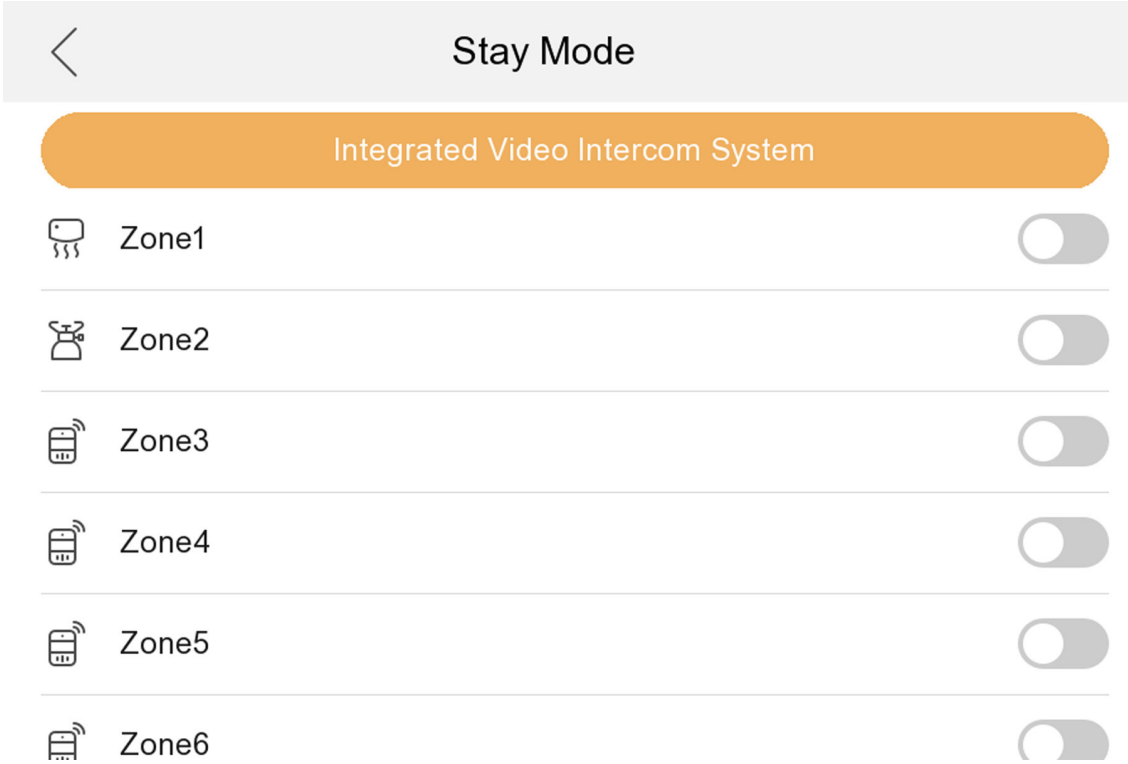

Figure 3-27 Arming Mode Settings

3. Arm the selected zone.

Note

- Zones are configurable on the arming mode page.
- 24H alarm zone including smoke detector zone and gas detector zone will be triggered even if they are disabled.
- Arming mode settings should be configured with the settings of arming status on the user page of the device.

3.4 Password Settings

3.4.1 Change Admin Password

If you forget admin (activation) password when entering Configuration page, you can change it via verification code from Email.

Before You Start

The Email address has been registered after activation. Refers to ***Security Settings*** .

Steps

1. Tap **Settings** → → **Configuration** , to enter the Admin Password page.
2. Tap **Forgot Password**.
3. Download the APP of **Hik-Connect** and run **Hik-Connect** client software.
4. Scan the QR code via **Hik-Connect**.
5. Open the E-mail to get the verification code.
6. Tap **Next**, and enter the verification code from the E-mail.
7. Tap **Next**, and create the new password.

Note

The new password is used for admin login, remote SDK login, SSH login, and Web login.

3.4.2 Security Settings

If you forgot the admin password, you can change your password via the reserved email address or the security questions.

Steps

1. Tap **Settings** → → **Configuration** , and enter the admin (activation) password to enter the local information page. Tap → **Security Settings** to enter security setting page.
2. Tap **Email Address**. Enter or edit the address.
3. Tap **Security Question**. Select questions and enter the answers.
4. After the settings, you can reset your password via the reserved email address or via answering questions.

3.4.3 Modify Arm/Disarm Password

You can create and edit the arm/disarm password of the indoor station.

Steps

1. Tap **Settings** → → **Password** to enter the settings page.

Note

You need to enter admin password to enter the the arm/disarm password page.

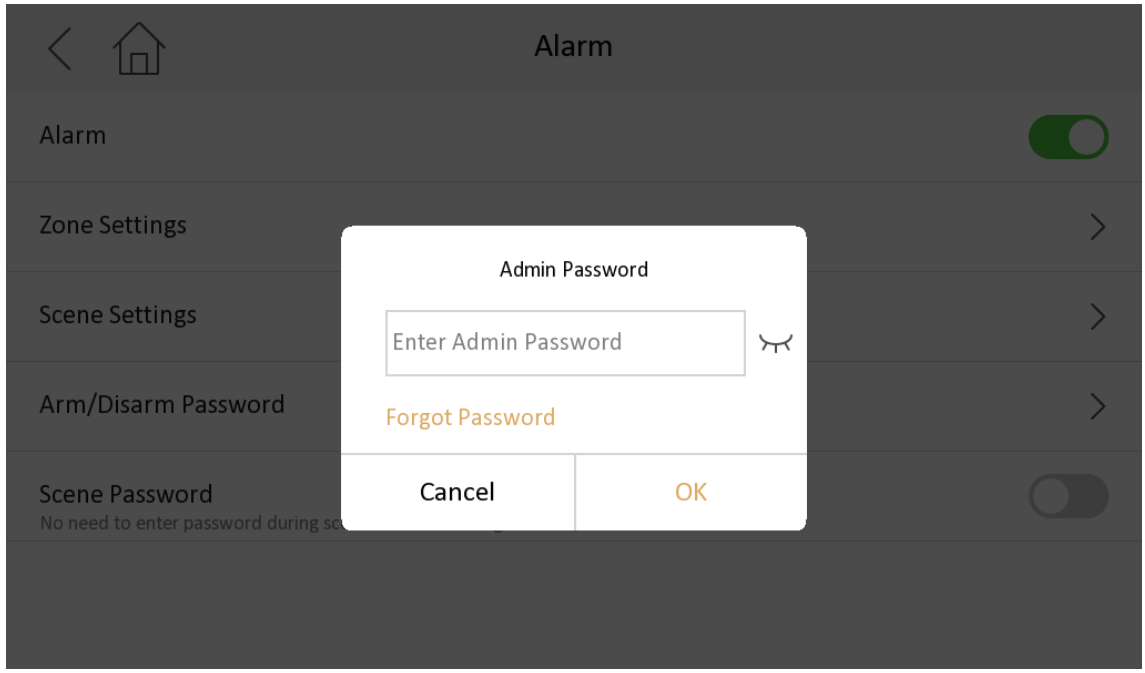

Figure 3-28 Enter Admin Password

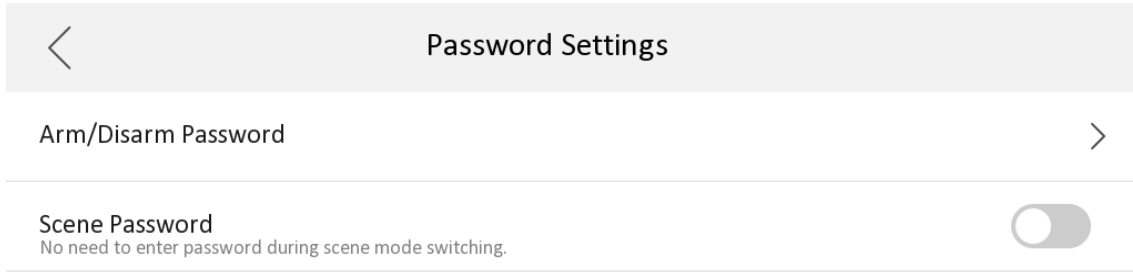

Figure 3-29 Arm/Disarm Password Settings

2. Create the indoor station's arm/disarm password. You should enter the arm/disarm password to enable or disable the function.

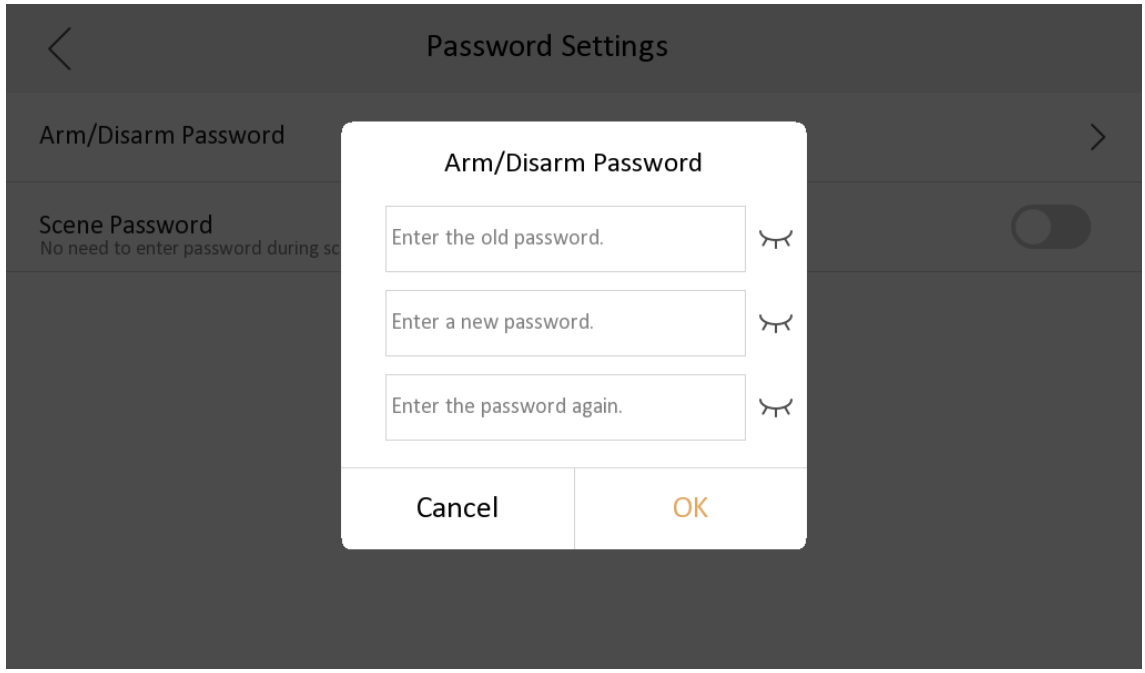

Figure 3-30 Create Password

3. When you slide to disable **Scene Password**, there is no needs to enter password during scene mode switching.

3.4.4 Modify Unlock/Duress Code

You can create and edit the duress code and unlock password of the indoor station.

Steps

1. Tap **Settings** → → **Configuration** , and enter admin (activation) password.
2. Tap **Password**.

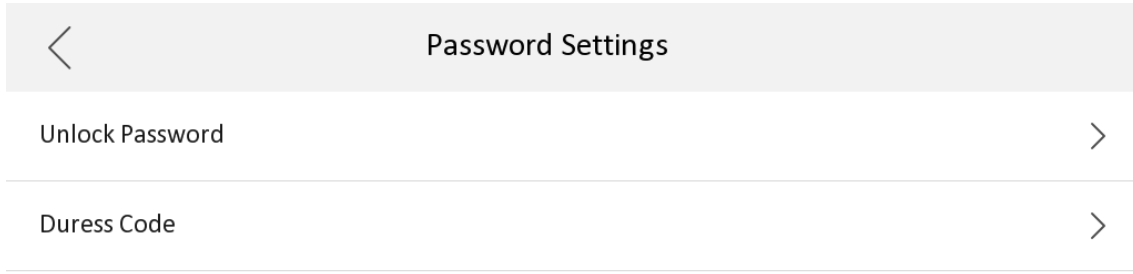

Figure 3-31 Unlock and Duress Code Settings Page

3. Tap **Unlock Password** or **Duress Code** to pop up the password settings dialog box.

   Unlock Password

   Create the indoor station's unlock password. If the device has connected to a lock, enter the password to unlock.

   Duress Code

   When you are hijacked and forced to open the door, you can enter the duress code. An alarm will be triggered to notify the management center secretly.

   Note

   The duress code and the unlock password cannot be the same.

4. Create a new password and confirm it.
5. Tap **OK** to save the settings.

3.5 Synchronize Time

Steps

1. Tap **Settings** → → **Time and Date** to enter the time synchronization page.
2. Tap **Date Format** and **Time Format** to set the time format.
3. **Optional:** Tap **Time** to set time manually.
4. Tap **Sync Time**.



Figure 3-32 Time Synchronization

1) Select the **Time Zone**.
2) Enable **Enable NTP**.
3) Set the synchronizing interval, enter the IP address/domain of NTP server and port No.

Note

- The default unit of synchronizing interval is minute.
- The time zone can be configured as well if the NTP is not enabled.

3.6 Sound Settings

Set the ringtone sound, the volume, and the auto answer.

3.6.1 Call Settings

You can set the ringtone, ring duration, call forwarding time on call settings page.

Steps

1. Tap **Settings** → to enter the call settings page.

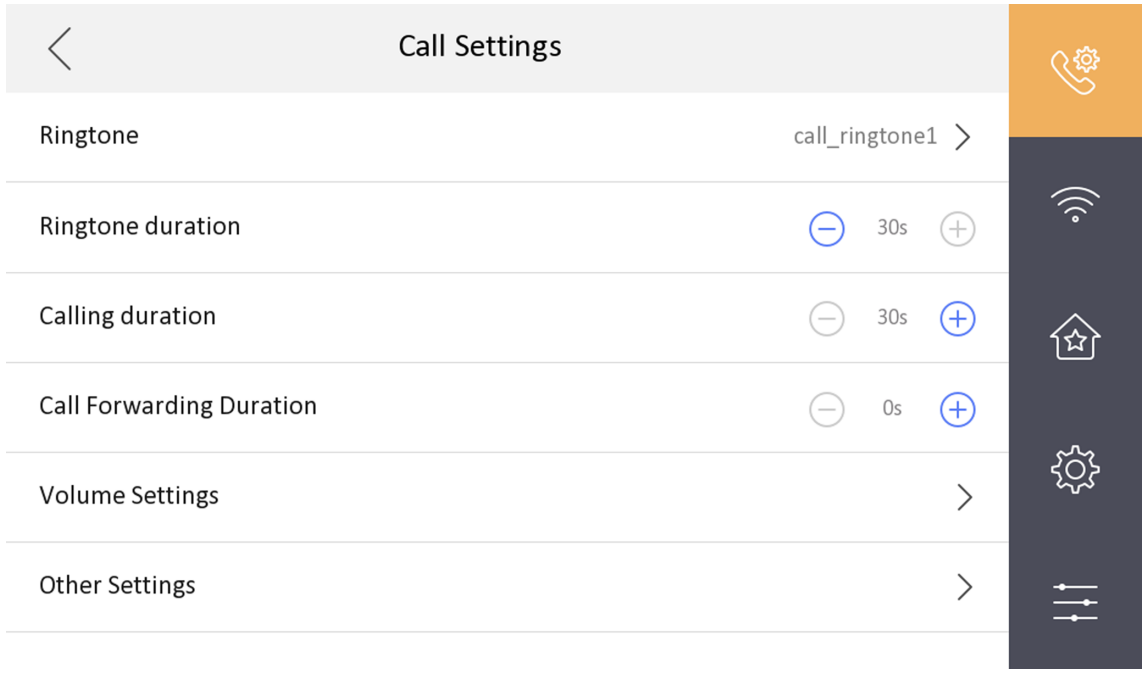

Figure 3-33 Call Settings

2. Set corresponding parameters.

Ringtone

There are 3 ringtones by default, and you can custom and import at most 4 ringtones via Batch Configuration Tool or iVMS-4200 Client Software.

Ringtone Duration: The maximum duration of indoor station when it is called without being accepted. Ringtone duration ranges from 30 s to 60 s.

Calling Duration

The call will end automatically when the actual calling duration is longer than the configured one. Calling duration ranges from 30 s to 60 s.

Call Forwarding Duration

The ring duration limit beyond which the call is automatically forwarded to the mobile phone designated by the resident. Call forwarding ranges from 0 s to 20 s.

Other Settings

You can set the Do Not Disturb and Auto-answer functions.

Auto-answer

Enable **Auto-answer**. After enabling, the call from door station/villa door station will be answered by the indoor station automatically. The caller from door station/villa door station can leave voice messages. After the message is left, you can check it from **Message** on the main page of the device.

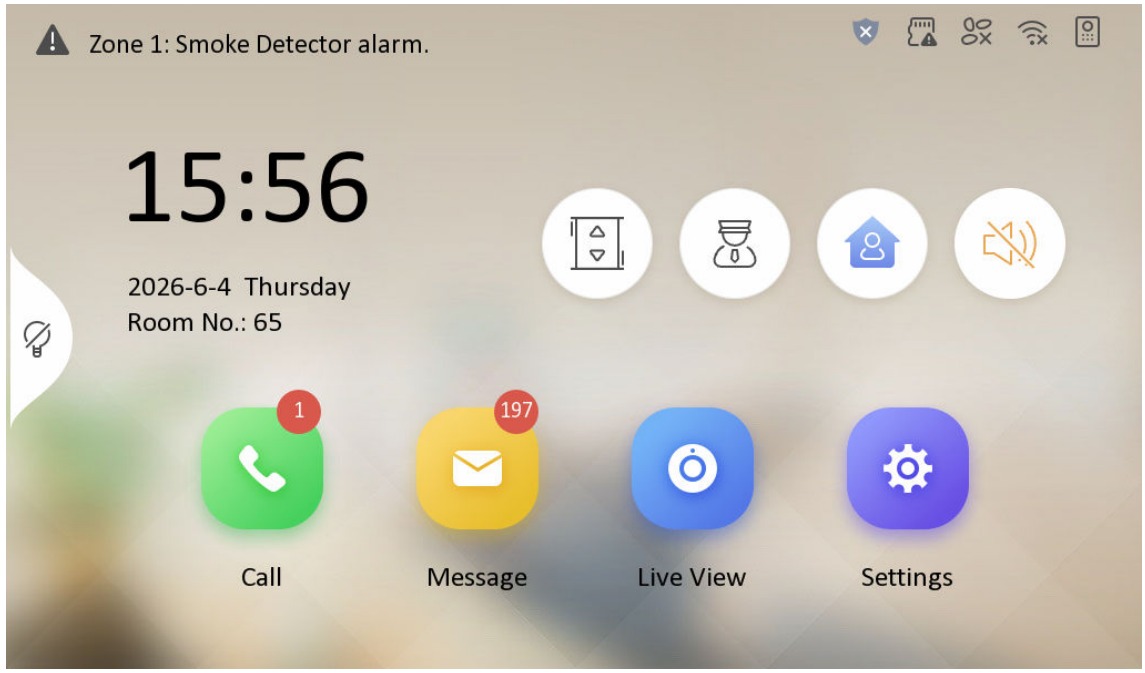

Figure 3-34 Main Page

Note

Before enabling **Auto-answer**, the function of **Leave Message** needs to be enabled. Tap **Settings** → → to enter the shortcut settings page. Eanble **Leave Message** and go back to calling settings page to enable **Auto-answer**.

Do Not Disturb Device

Select **All** and all devices will not disturb this device. Select **Indoor Station** and all indoor station will not disturb this device.

Do Not Disturb

Set the do not disturb schedule. Select **Close** and the do not disturb function will not be enabled. Select **All Day** and this device will not be disturbed all day. Select **Schedule** and you can set the do not disturb time duration. Within the configured time, this device will not be disturbed.

Note

Indoor extension does not support the ring duration settings, call forwarding settings, or auto-answer function.

3.6.2 Volume Settings

Set the microphone volume, prompt sound volume, call volume, and enable touch sound.

Steps

1. Tap **Settings** → → **Volume Settings** to enter the volume settings page.
2. Set the microphone volume, prompt sound volume, and the call volume. You can also enable **Touch Sound** to turn on the key sound.

3.7 Via the mobile client

The device support adding to **Hik-Connect** and cofiguration remotely via the client.

3.7.1 Link to the Mobile Client

Download and link to the mobile client, and you can configure the parameters of the device remotely via mobile client.

Steps

1. Tap **Settings** → → **Configuration** and enter the admin (activation) password to enter the settings page.
2. Tap to enter the system maintenance page.
3. Tap **Hik-Connect Service Settings**.

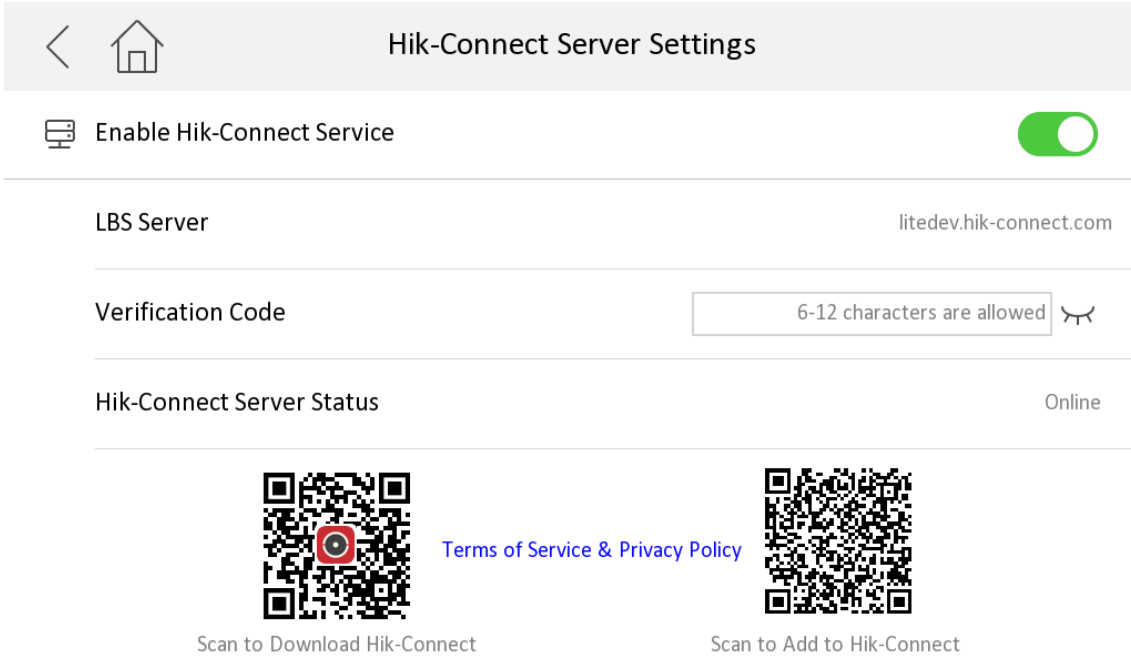

Figure 3-36 Hik-Connect Service Settings Page

4. Enable **Enable Hik-Connect Service**.
5. Edit **LBS** server and **Verification Code**.

Note

- Verification code is used to add the device to mobile client.
- You can tap to enable or disable verification code reveal.

6. View the service status on the page.
7. **Optional:** Scan the QR code on the screen.

Note

- Scan the left QR code on the screen to download Hik-Connect.
- Scan the right QR code on the screen to add the device to the mobile client.

3.7.2 Unlink the Account

Remove the account from the mobile client.

Steps

1. Tap **Settings** → → **Configuration** , and enter the admin (activation) password.
2. Tap to enter the system maintenance page.

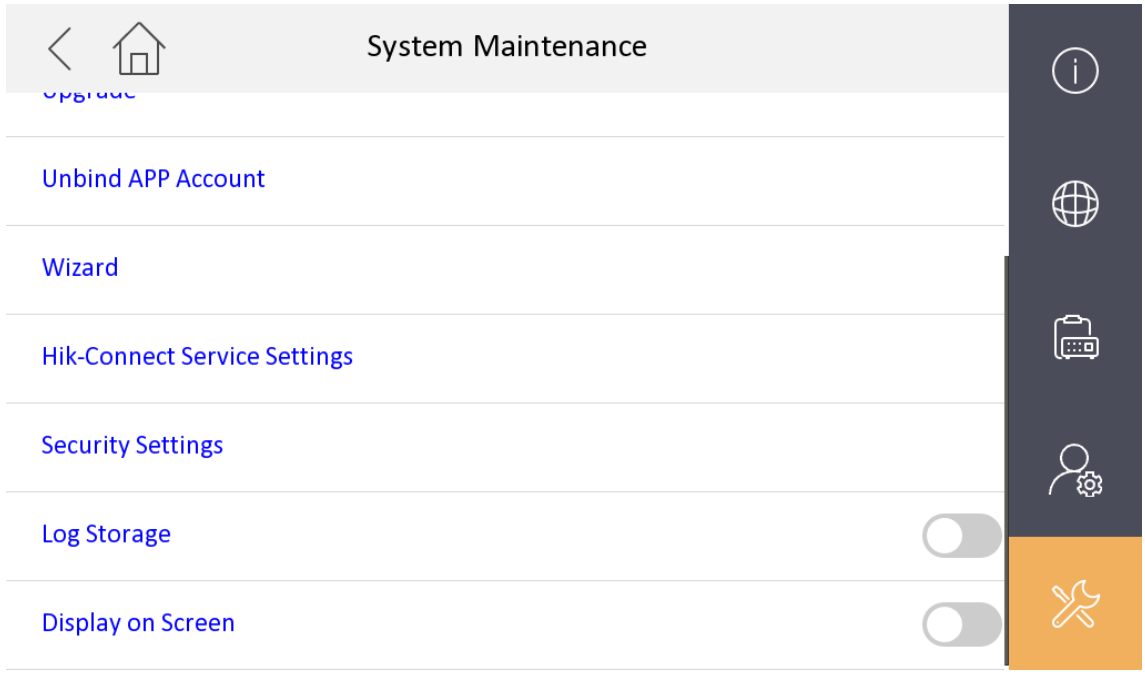

Figure 3-37 System Maintenance

3. Tap **Unbind App Account**, and follow the steps on the page.

3.8 System Settings

You can format or install TF card, clear the screen, view the version information of the indoor station and reboot the system on the settings page.

General Settings

Tap **Settings** → to enter the general settings page.

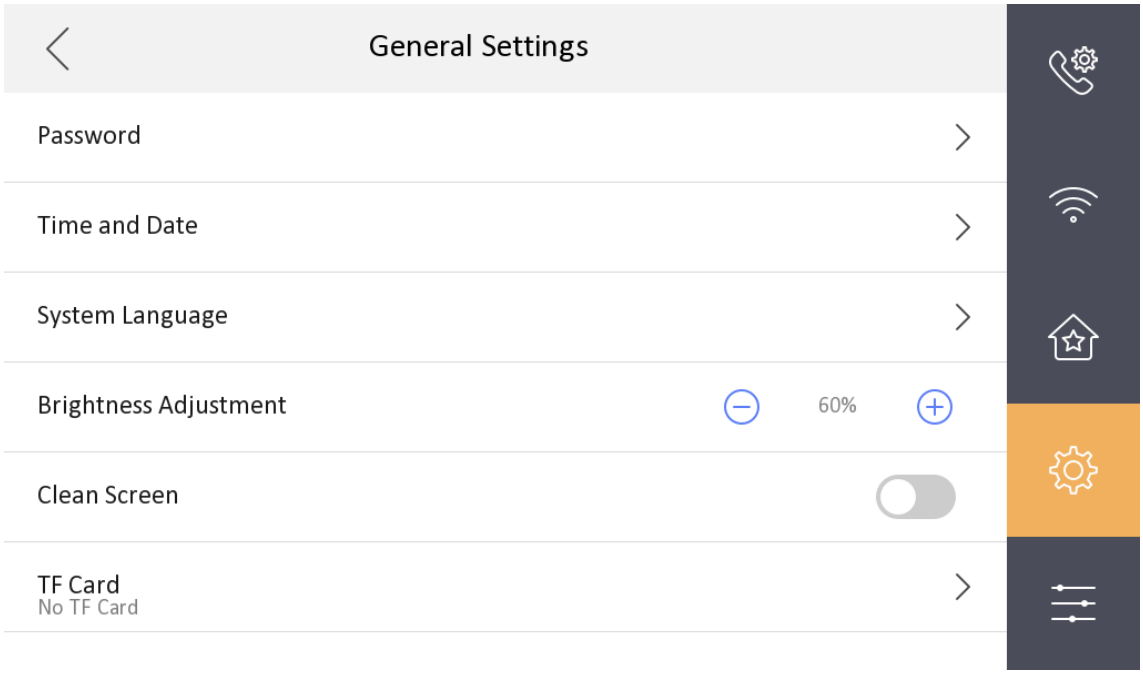

Figure 3-38 General Settings Page

Time and Date

Set the displayed time and date format, current time. Tap **Sync Time** and enable NTP to synchronize the device time. You can also enable **DST** and set the DST start time, end time and bias.

Note

- Make sure your device is connected with the network or the NTP function will not available.
- For details, see ***Synchronize Time*** .

System Language

Tap **System Language** to change the system language.

Note

The indoor station supports 19 languages.

Brightness Adjustment

Tap **+** or **-** to adjust the screen brightness.

Clean Screen

Enable **Clear Screen** and the screen will be locked for 30s. And you can clear the screen within the time duration.

Note

- After enabling Clear Screen function, press and hold the Unlock key to exit the clear screen mode.
- The device without unlock key will exit the clear screen mode automatically when the time is out.

TF Card

Tap **TF Card** to view the TF card and you can also format the TF card.

Reboot

Tap **Settings** → to enter the advanced settings page.
Tap **Reboot Device** to reboot the deivce immediately.

System Maintenance

Tap **Settings** → → **Configuration** , and enter the admin (activation) password.
Tap to enter the system maintenance page.

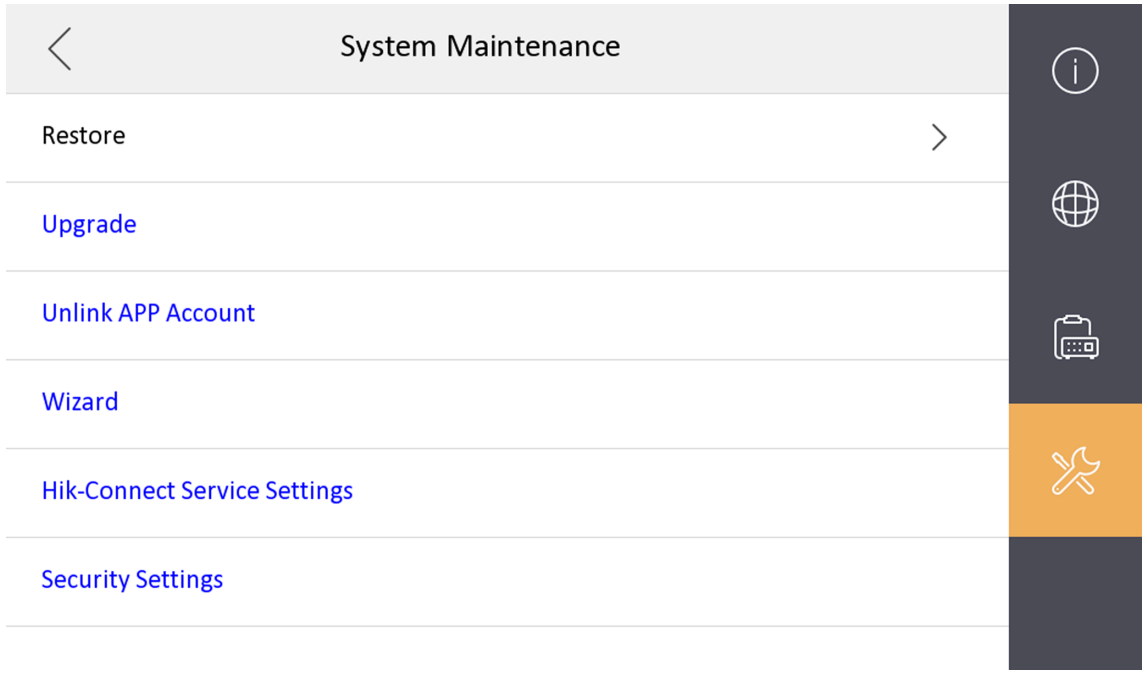

Figure 3-39 System Maintenance (For DS-KH6320EY-WTE2 Indoor Stations)

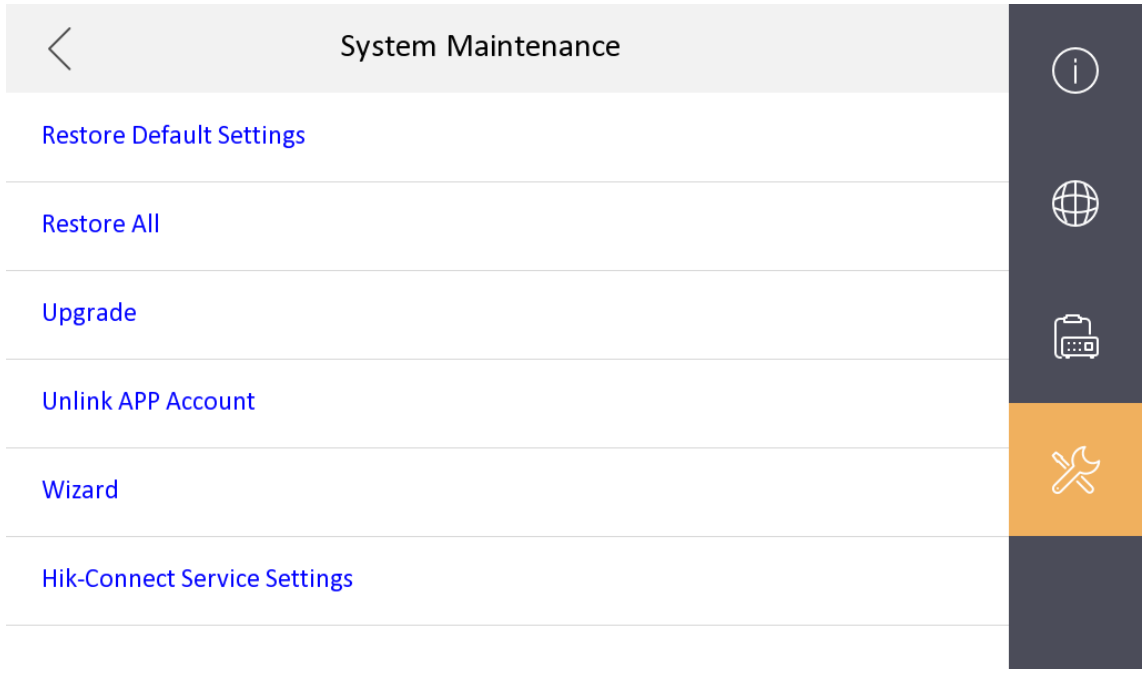

Figure 3-40 System Maintenance (For Normal Indoor Stations)

Upgrade

Tap **Upgrade** to get the upgrade package online and reboot automatically.

Restore (For DS-KH6320EY-WTE2)



Figure 3-41 Restore Page (For DS-KH6320EY-WTE2)

Restore All

Restore all parameters of the indoor station to factory settings and the system will reboot automatically.

Restore Video Intercom System

All devices in the video intercom system (the indoor station and its linked devices) will be restored to the factory settings. And the system will reboot automatically.

Restore Linked Indoor Extension

Restore all parameters of the linked indoor extension to factory settings and the system will reboot automatically.

Restore Linked Door Station

Restore all parameters of the linked door station to factory settings and the system will reboot automatically.

Restore (For Normal Indoor Station)

Restore Default Settings

Tap **Restore Default Settings** to restore parameters except network parameters and activation password to factory settings. And the system will reboot automatically.

Restore All

Tap **Restore All** to restore all parameters to factory settings and the system will reboot automatically.

Wizard

Tap **Wizard** and set the language, network, indoor station type, device No., and select a device according to the wizard. Refers to ***Quick Operation (For Normal Device)*** for the details.

Preference

Tap **Settings** → to enter the preference page.

Shortcut Settings

Enable call elevator, alarm, call management center, or leave message and the icon will be displayed on the home page.

Zone Settings

Note

Only when enable **Alarm** in the shortcut settings, can the **Zone Settings** displayed on the Preference page.

Set the zone parameters. For details, see ***Zone Settings*** .

Scene Settings

Note

Only when enable **Alarm** in the shortcut settings, can the **Scene Settings** displayed on the Preference page.

Set the scene parameters, including the stay mode, the away mode, the sleeping mode, or customize the scene. For details, see ***Arming Mode Settings*** .

3.9 Output Settings

You can set and control the connected output devices via the output settings page. You can change the relay' name, and open duration. You can also set to display the relay button on the main page or not.

Steps

1. Tap **Settings** → → **Output Settings** .

Note

- Supports up to 2 relays.
- If no relays displayed on the page, the device may not support the function.

2. Select a relay and set the parameters.

Name

You can change the relay's name.

Note

1 to 32 characters are allowed. Supports uppercase letters, lowercase letters, numerics, and special characters.

Remain Open

Enable the function, the relay remains open.

Disabled the function, and you can set the remain open duration.

Note

- By default, the function is disabled.
- 1 to 180 s are available to set.

Hide on Main Page

Enable the function and the relay button will be displayed on the main page. You can control the relay status manually on the main page.

Disabled the function and the relay button will no be displayed on the main page.

3.10 Device Information

View the device information, including the version, model, serial No. and open source disclaimer.

Steps

1. Tap **Settings** → → **Device Information** to enter the Device Information page.
2. View the device version, model, and serial No.
3. **Optional:** Tap **Open Source Disclaimer** to view the OSS statement.

Chapter 4 Remote Operation via the Client Software

The Video Intercom module provides remote control and configuration on video intercom products via the iVMS-4200 client software.

4.1 Device Management

Device management includes device activation, adding device, editing device, and deleting device, and so on.

After running the iVMS-4200, video intercom devices should be added to the client software for remote configuration and management.

4.1.1 Add Video Intercom Devices

Steps

Note

- You can add at most 512 indoor stations and main stations in total to the client, and add at most 16 door stations to the client.
- For video intercom devices, you are required to create the password to activate them before they can be added to the software and work properly.
- You can add online video intercom devices, and add them manually. Here take adding online video intercom devices as example.

1. Click **Maintenance and Management → Device Management** to enter the device management page.
2. Click the **Device** tap.
3. Click **Add** to add the device to the client.

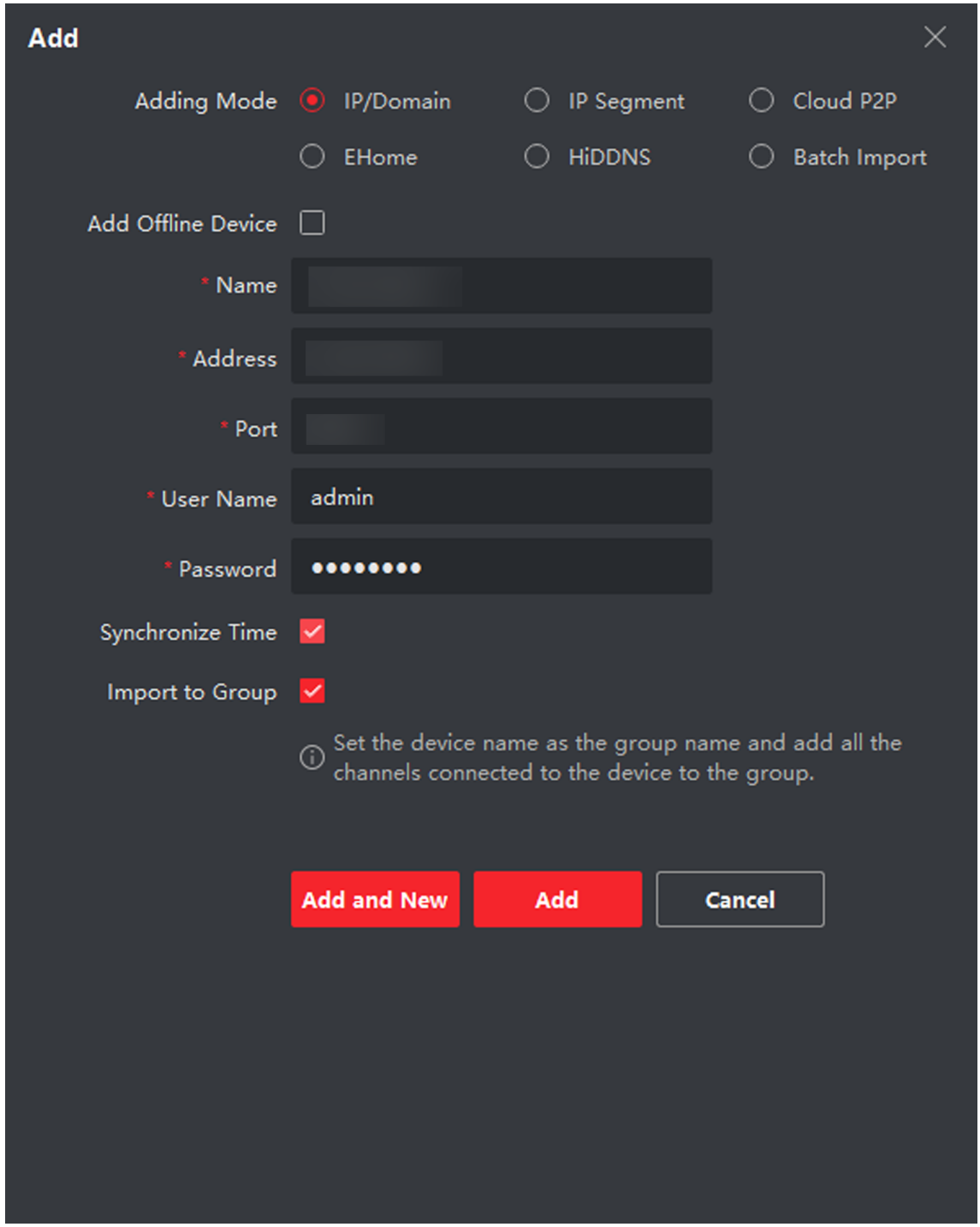

Figure 4-1 Add the Device

4. **Optional:** Click **Online Device**, the active online devices in the same local subnet with the client software will be displayed on the **Online Device** area.

Note

To add online devices to the software, you are required to change the device IP address to the same subnet with your computer first.

1) You can click **Refresh Every 60s** to refresh the information of the online devices.
2) Select the devices to be added from the list.
3) Click **Add to Client** to add the device to the client.

5. Input the required information.

Nickname

Edit a name for the device as you want.

Address

Input the device's IP address. The IP address of the device is obtained automatically in this adding mode.

Port

Input the device port No. The default value is 8000.

User Name

Input the device user name. By default, the user name is admin.

Password

Input the device password.

6. **Optional:** You can check the checkbox **Export to Group** to create a group by the device name. All the channels of the device will be imported to the corresponding group by default.

The client also provides a method to add the offline devices. Check the checkbox **Add Offline Device**, input the required information and the device channel number and alarm input number, and then click **Add**. When the offline device comes online, the software will connect it automatically.

Note

- Add Multiple Online Devices: If you want to add multiple online devices to the client software, click and hold **Ctrl** key to select multiple devices, and click **Add to Client** to open the device adding dialog box. In the pop-up message box, enter the user name and password for the devices to be added.
- Add All the Online Devices: If you want to add all the online devices to the client software, click **Add All** and click **OK** in the pop-up message box. Then enter the user name and password for the devices to be added.

4.1.2 Modify Network Information

Select the device from the device list, click , and then you can modify the network information of the selected device.

Note

You should enter the admin password of the device in the **Password** field of the pop-up window to modify the parameters.

4.2 System Configuration

You can configure the video intercom parameters accordingly.

Steps

1. Click **Maintenance and Management → System Configuration → ACS & Video Intercom** to enter the system configuration page.
2. Enter the required information.

   Ringtone

   Click **...** and select the audio file from the local path for the ringtone of indoor station. Optionally, you can click for a testing of the audio file.

   Ringtone Duration

   Enter ringtone duration, ranging from 15 seconds to 60 seconds.

   Max. Speaking Duration with Indoor Station

   Enter the maximum duration of speaking with the indoor station, ranging from 120 seconds to 600 seconds.

   Max. Speaking Duration with Door Station

   Enter the maximum duration of speaking with the door station, ranging from 90 seconds to 120 seconds.

   Max. Speaking Duration with Access Control Device

   Enter the maximum duration of speaking with the access control device, ranging from 90 seconds to 120 seconds.
3. Click **Save** to enable the settings.
4. **Optional:** Click **Default** to restore the default parameters.

4.3 Remote Configuration

In the device list area, select a device and click to enter the remote configuration page.

4.3.1 System

Click **System** on the remote configuration page to display the device information: Device Information, General, Time, System Maintenance, User, RS-485, and Security.

Device Information

Click Device Information to enter device basic information page. You can view basic information (the device type, and serial No.), and version information of the device.

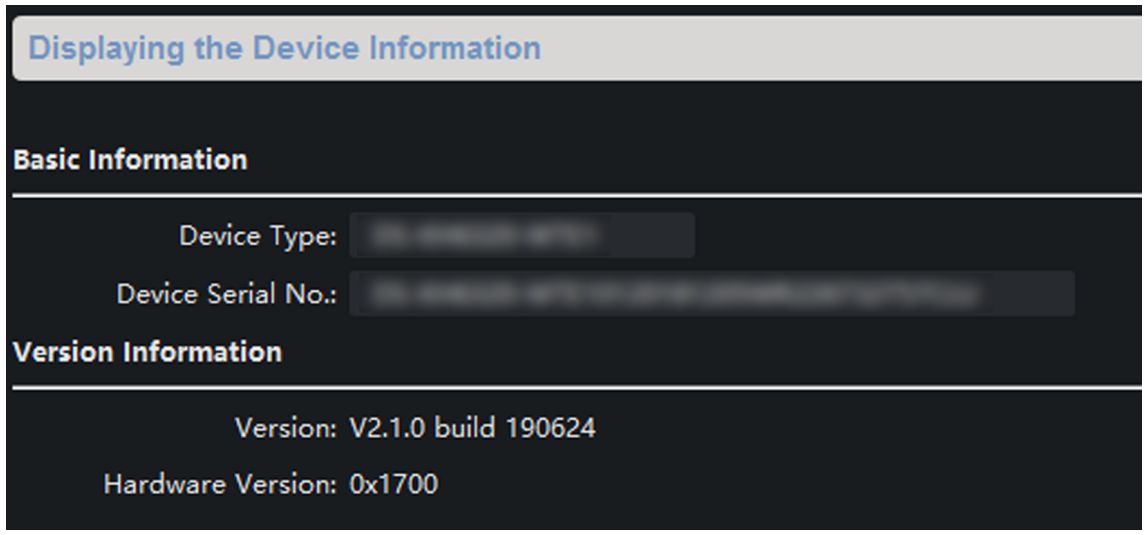

Figure 4-2 Device Information

General

Click **General** to enter device general parameters settings page. You can view and edit the device name and device ID, and select overwrite record file.

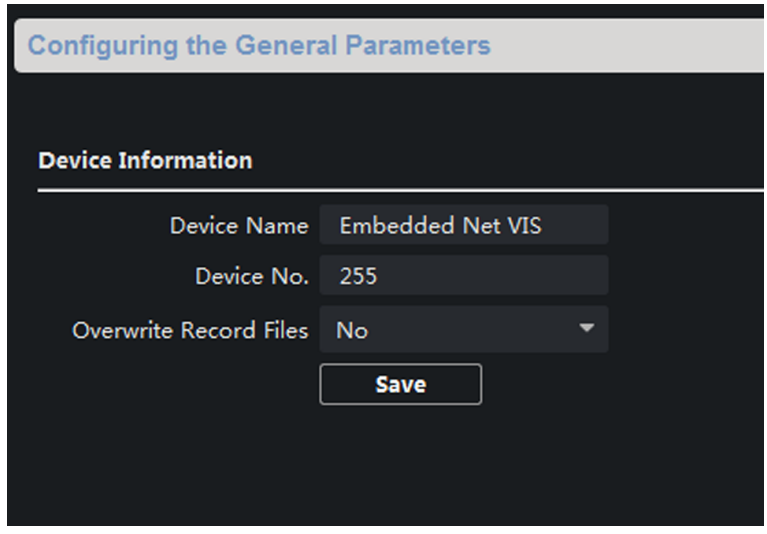

Figure 4-3 General

Time

Click **Time** to enter the device time settings page.

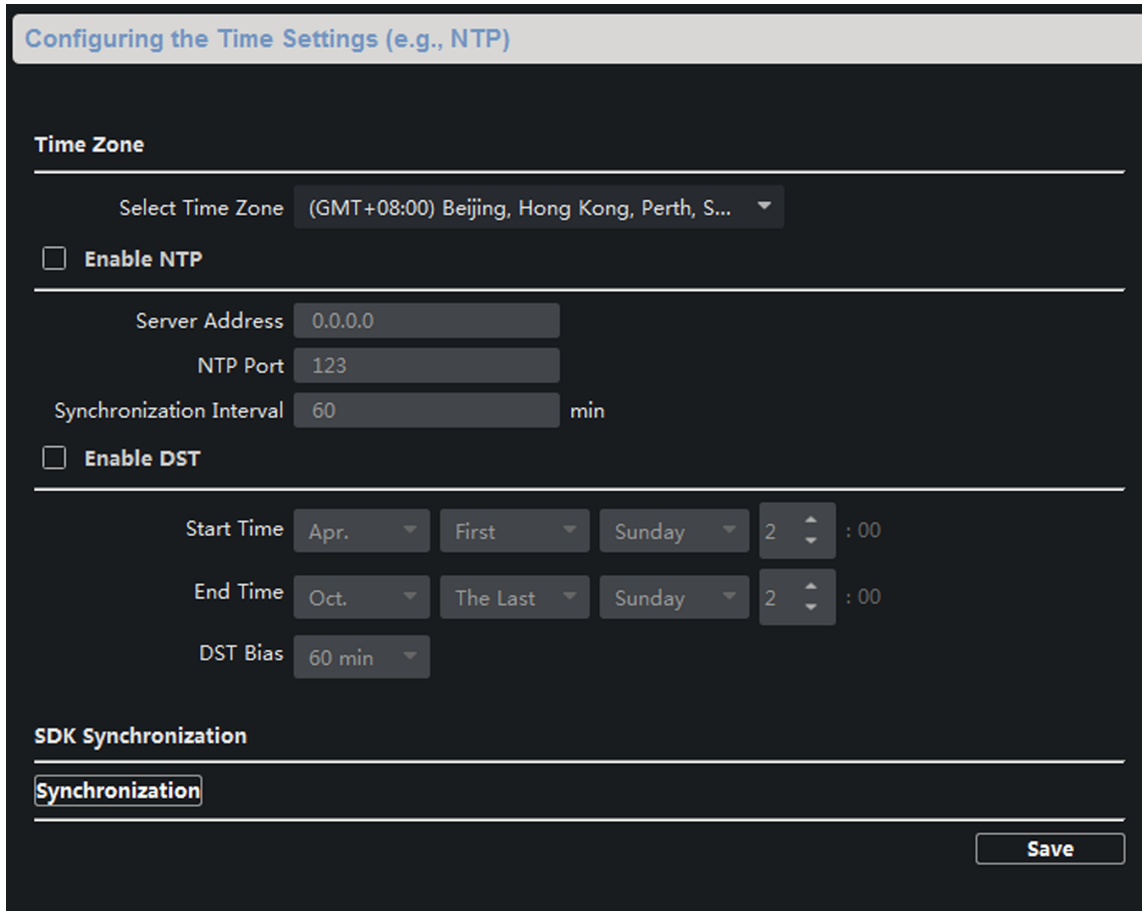

Figure 4-4 Time Settings Page

Select **Time Zone**, **Enable NTP**, **Enable DST**, or **SDK Synchronization**. Click **Save** to save the time settings.

- Time Zone: Select a time zone from the drop-down list menu.
- NTP: Click **Enable NTP**, and enter the server address, NTP port, and synchronization interval.

Note

The default port No. is 123.

- DST: Click **Enable DST**, and set the start time, end time, and bias.
- SDK Synchronization: Click **Synchronization**, and the system will synchronize the data to the SDK.

System Maintenance

Click **System Maintenance** to enter the page.

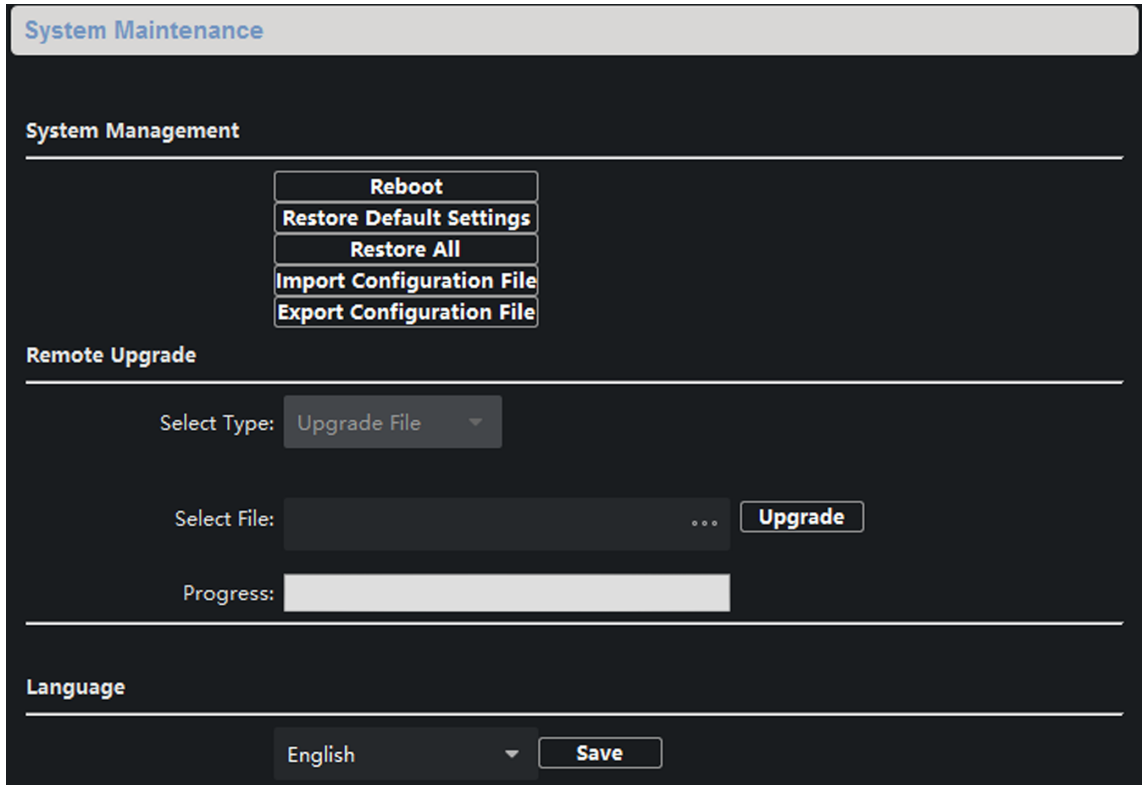

Figure 4-5 System Maintenance

- Reboot: Click **Reboot** and the system reboot dialog box pops up. Click **Yes** to reboot the system.
- Restore Default Settings: Click **Restore Default Settings** to restore the default parameters. All default settings, excluding network parameters, will be restored.
- Restore All: Click **Restore All** to restore all parameters of device and reset the device to inactive status.

Note

all default settings, including network parameters, will be restored. The device will be reset to inactivated status.

- Import Configuration File: Click **Import Configuration File** and the import file window pops up. Select the path of remote configuration files. Click **Open** to import the remote configuration file. The configuration file is imported and the device will reboot automatically.
- Export Configuration File: Click **Export Configuration File** and the export file window pops up. Select the saving path of remote configuration files and click **Save** to export the configuration file.
- Remote Upgrade: Click **...** to select the upgrade file and click **Upgrade** to remote upgrade the device. The process of remote upgrade will be displayed in the process bar.
- Language: Select a language, and click **Save** to change the device system language.

Note

- The device supports 19 languages: English, French, Brazilian Portuguese, Spanish, Russian, German, Italian, Polish, Arabic, Turkish, Vietnamese, Ukrainian, Hungarian, Dutch, Romanian, Czech, Bulgarian, Croatian, Serbian.
- Rebooting the device is required after you change the system language.

User

Click **User** to enter the user information editing page.
Select the user to edit and click **Edit** to enter the user parameter page.

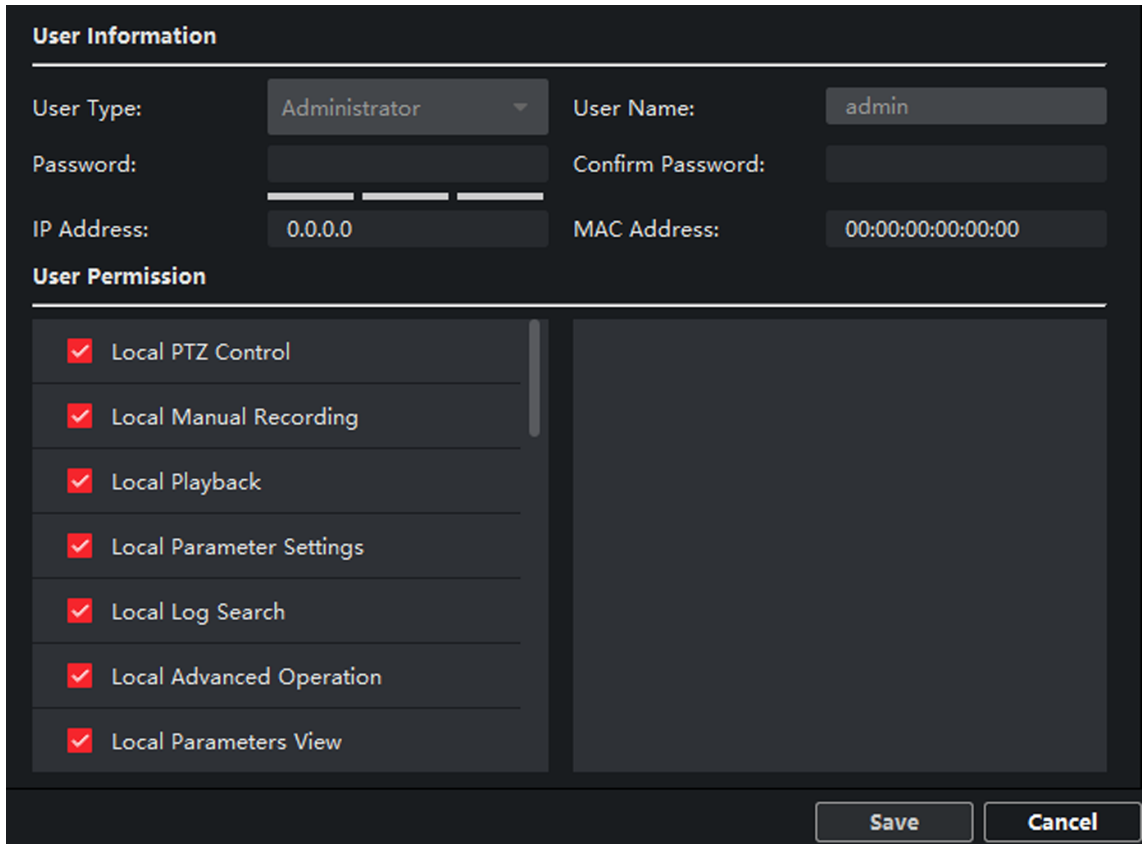

Figure 4-6 User Page

Note

- The new password and confirm password should be identical.
- After editing the password of device, click refresh button from the device list, the added device will not be there. You should add the device again with new password to operate the remote configuration.

RS-485

Click **RS485** to enter the RS-485 settings page. You can view and edit the RS-485 parameters of the device.

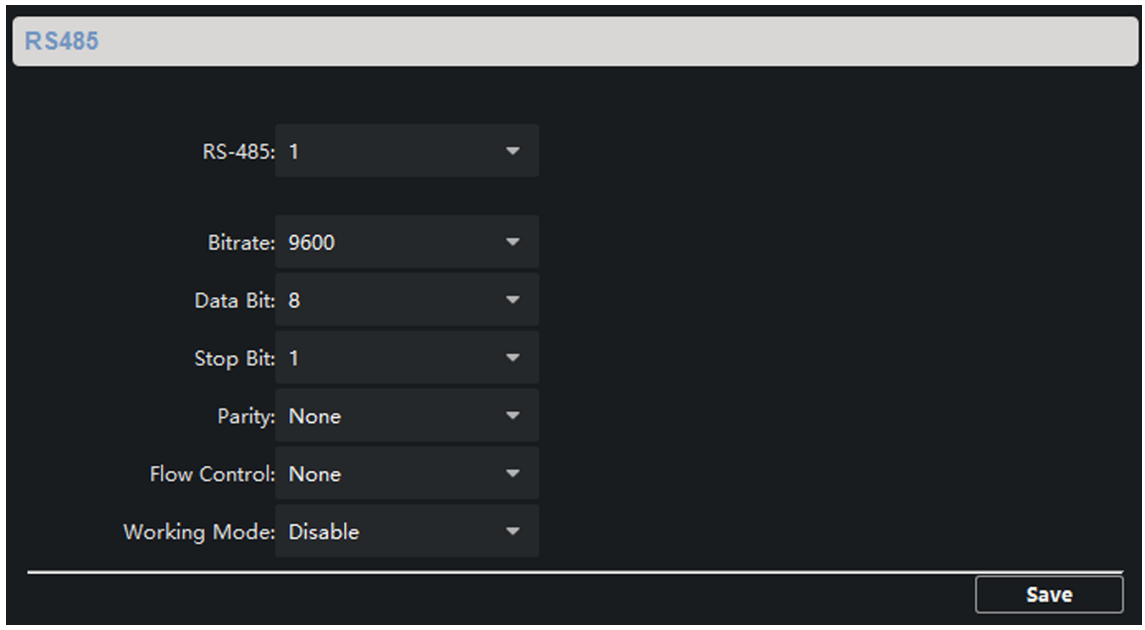

Figure 4-7 RS-485 Settings

Note

For indoor station and main station, there are 3 choices for the working mode: transparent channel, disable, and custom.

Security

Click **Security** to enter the page. You can enable SSH or enable HTTPS on this page.
Click **Save** after configuration.

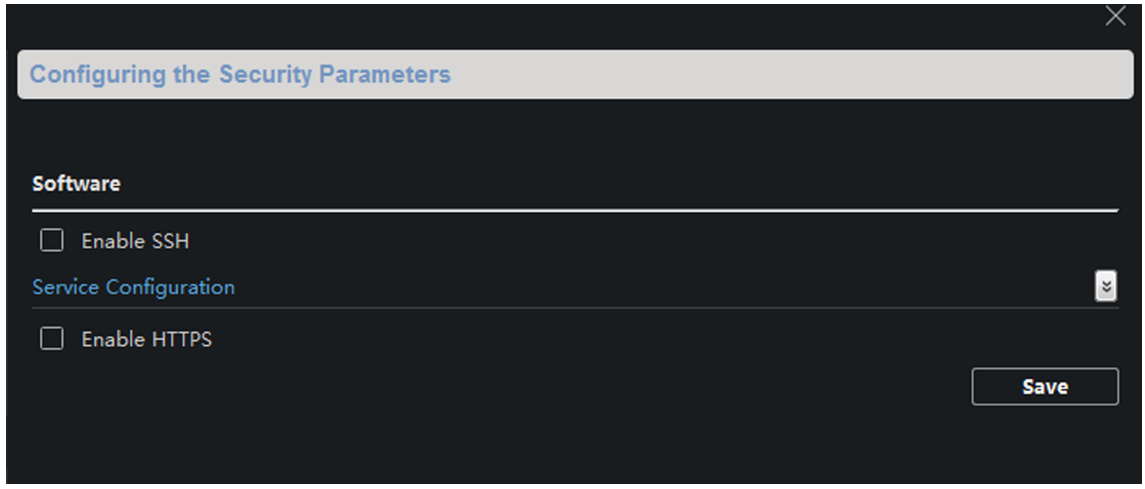

Figure 4-8 Security

4.3.2 Video Intercom

Click **Video Intercom** on the remote configuration page to enter the video intercom parameters settings: Time Parameters, Password, Zone Configuration, IP Camera Information, Volume Input and Output Configuration, Ring, Arming Information, Calling Linkage, Relay, and SIP No.

Time Parameters

Steps

1. Click **Time Parameters** to enter time parameters settings page.

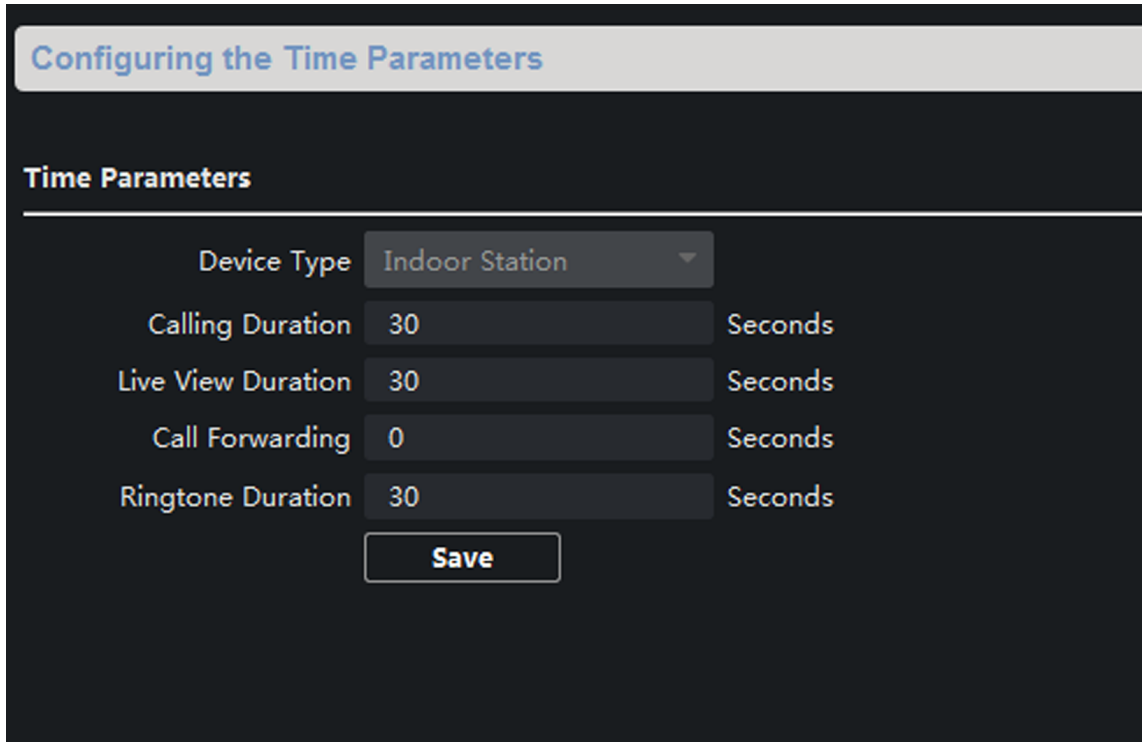

Figure 4-9 Time Parameters

2. Configure the calling duration, live view duration, call forwarding time, and the ringtone duration.
3. Click **Save**.

Note

- Calling duration is the maximum duration of indoor station when it is called without being received. The range of maximum ring duration varies from 30s to 60s.
- Live view duration is the maximum time of playing live view of the indoor station. The range of maximum live view time varies from 10s to 60s.
- Call forwarding refers to the ring duration limit beyond which the call is automatically forwarded to the mobile phone designated by the resident. The range of call forwarding time varies from 0s to 20s.
- For indoor extension, it only requires setting the maximum live view time.

Permission Password

Click **Permission Password** to enter password changing page.

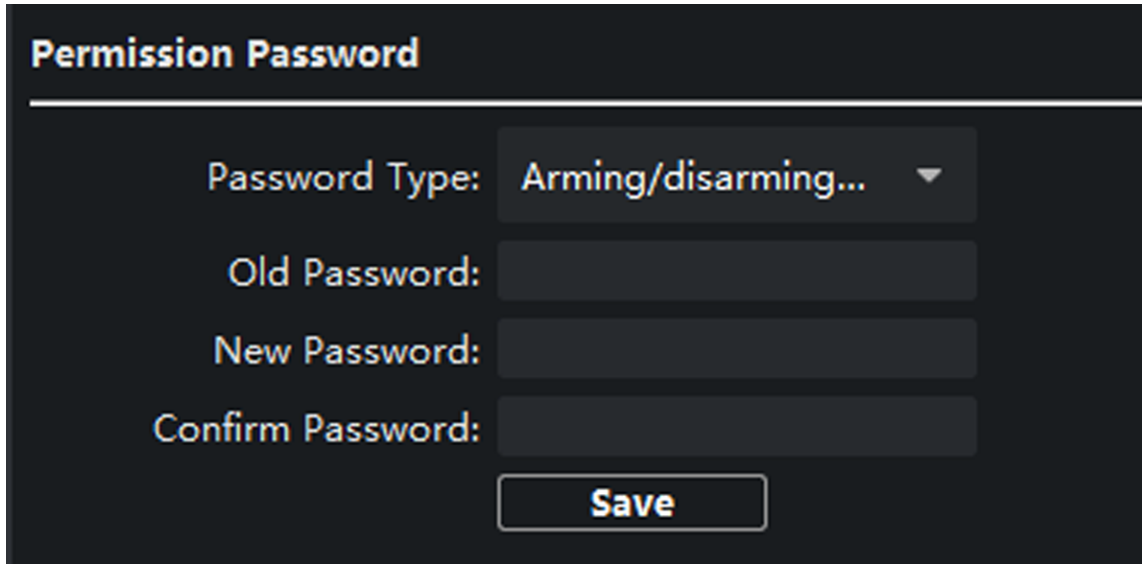

Figure 4-10 Permission Password

For indoor station, you can change the arm/disarm password.

Zone Alarm

Steps

1. Click **Zone Alarm** to enter the zone settings page.

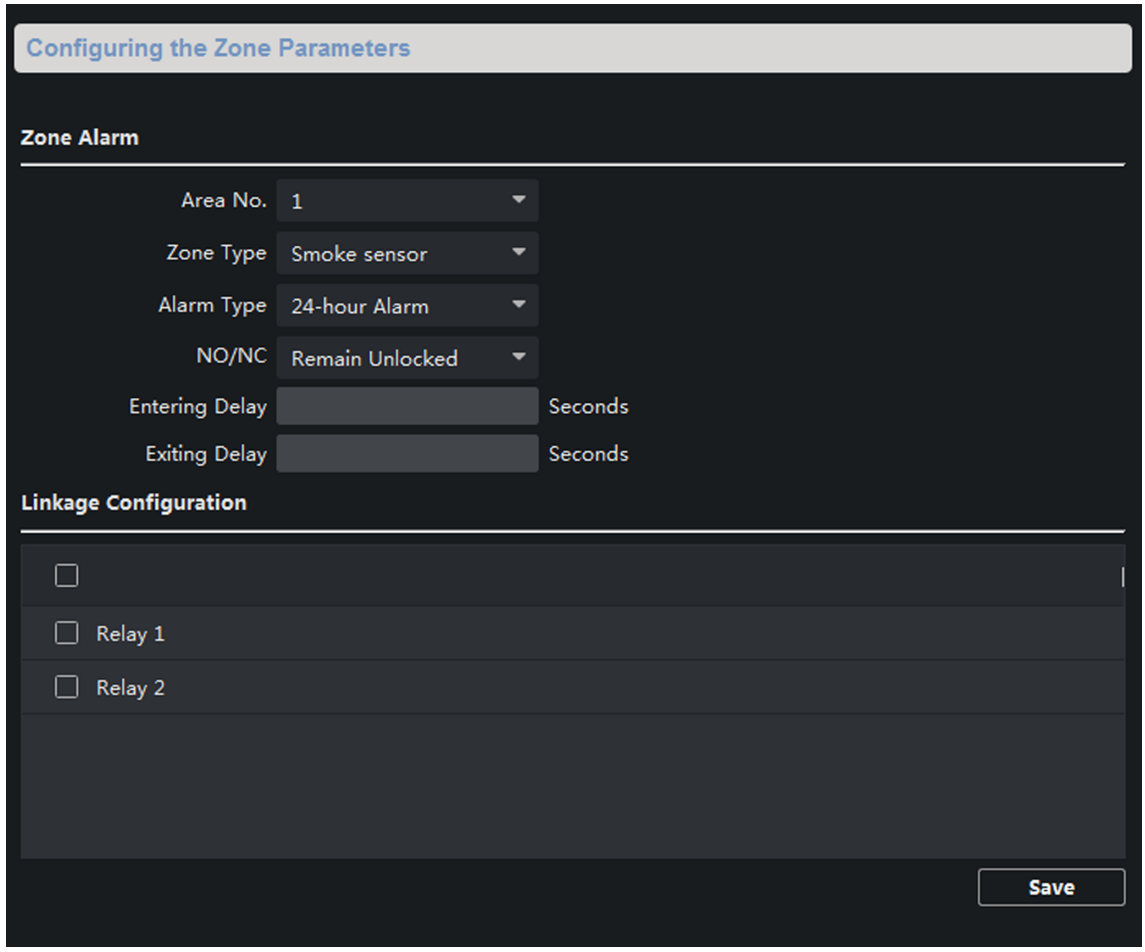

Figure 4-11 Zone Alarm

2. Select **Area No.**
3. Select **Zone Type** from the drop-down list.
4. Select **Alarm Type** from the drop-down list.
5. Set the NO/NC status.
6. Set **Entering Delay** and **Exiting Delay**.
7. Click **Save** to enable zone settings.

Note

- 7 zone types are supported: Emergency Switch, Door Magnetic Switch, Smoke Detector, Active IR Detector, Passive IR Detector, Combustible Gas Detector, and DoorBell Switch.
- 3 types of alarm mode are supported: Instant Alarm, 24H Alarm, and Delay Alarm.
- When the zone type is set to be Instant Alarm, only under arming mode, the indoor station will receive alarm message when the detector is triggered. Under disarming mode, it will not receive alarm message when the detector is triggered.

- When the zone type is set to be 24H Alarm, the indoor station will receive alarm message when the detector is triggered no matter it is under arming mode or disarming mode.
- When the zone type is set to be Delay Alarm, only under arming mode, the indoor station will receive alarm message when the detector is triggered. Under disarming mode, it will not receive alarm message when the detector is triggered.
- After setting enter delay time, if OK is pressed within the enter delay time after the alarm, the alarm event will not be uploaded to the management center; if OK is not pressed within the enter delay time after the alarm, the alarm event will be uploaded to the management center.
- The exit delay is the time between you enable the arming mode and the arming takes effect.

Network Camera Information

You can add, delete and edit cameras that can be added to the video intercom products, with two ways of getting stream: direct or URL. By exporting and importing the added device information, you can edit added devices parameters in batch.

Add Camera

Steps

1. Click **IP Camera Information** to enter IP camera information page.

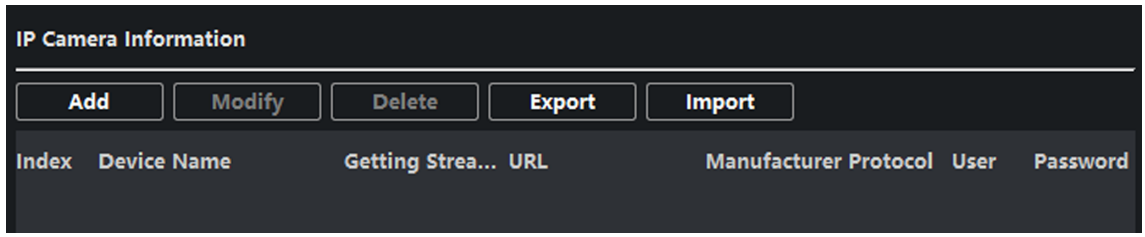

Figure 4-12 IP Camera Information

2. Click **Add** to pop up the device adding dialog box.
3. Enter corresponding information (device name, IP address, port No., user name, password, etc.), and click **OK**.

Note

Indoor extension does not support this function.

Export and Import Added Device Information

Steps

1. Click **Export** to export the added device information file.
2. Edit parameters of added devices in batch in the exported file.
3. Click **Import** to pop up importing box, and open the edited added device information file.

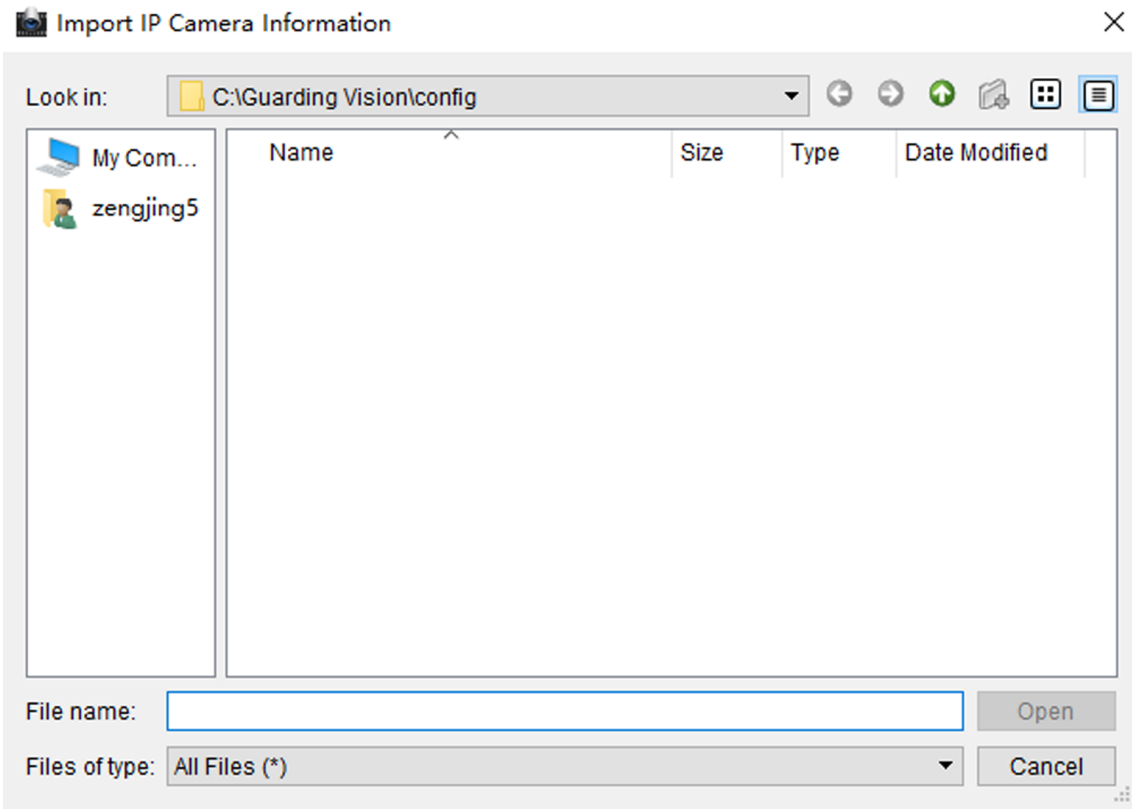

Figure 4-13 Import Added Device Information

Volume Settings

Steps

1. Click **Volume Input/Output** to enter the configuring the volume input or output page.



Figure 4-14 Volume Input or Output

2. Slide the slider to adjust the input volume, output volume and speak volume.
3. Click **Save** to enable the settings.

Ring Import

Steps

1. Click **Ring Import** to enter the ring configuration page.

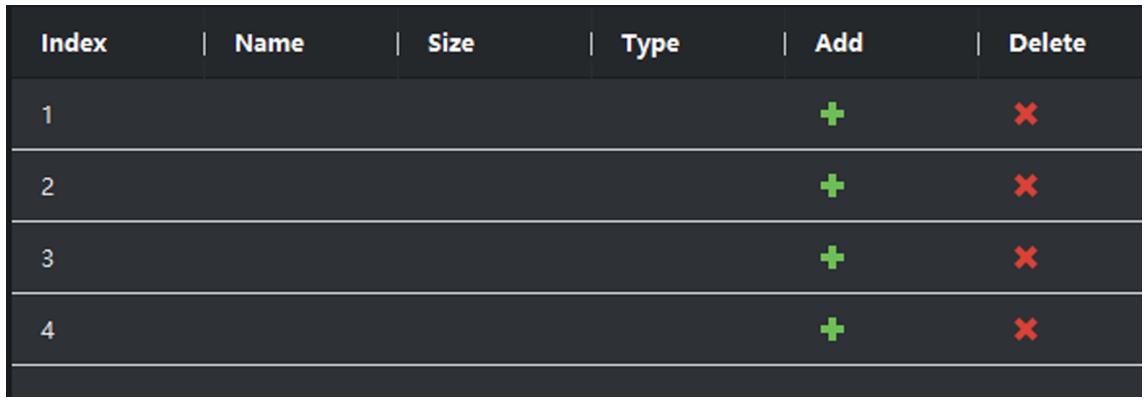

Figure 4-15 Ring Import

2. Click **+** to add the ring, and click **x** to delete the imported ring.

Note

- The ring to be imported should be in the wav format, and the size of the ring cannot be larger than 300k.
- Up to 4 rings can be added.

Arming Information

Click **Arming Information** to enter the configuring arming informaton page and view the arming information.

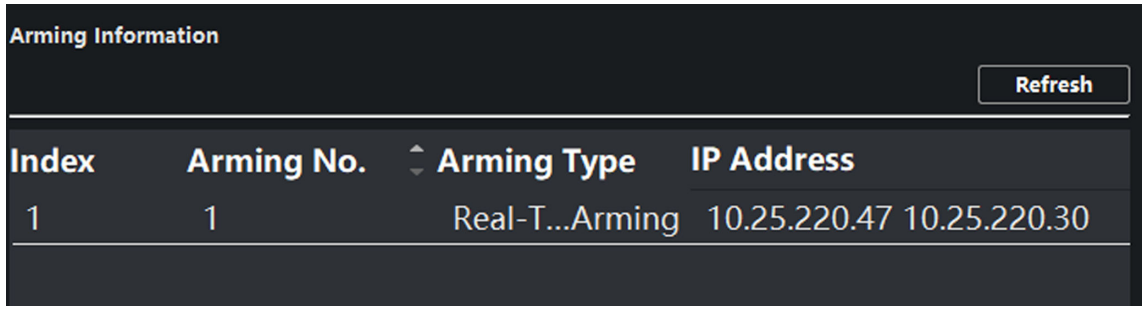

Figure 4-16 Arming Information

Click **Refresh** to refresh the arming information.

Relay

Some indoor station devices support this function.

Click **Relay** to enter the set relay parameters page.

Select a relay and click " " and set the relay name and output delay time. Click **Save** to enable the settings.

Click **Copy to...**, and select a relay you want to copy to. Click **Save** to enable the settings.

SIP No. Settings

Steps

1. Click **SIP No. Settings** to enter the settings page.

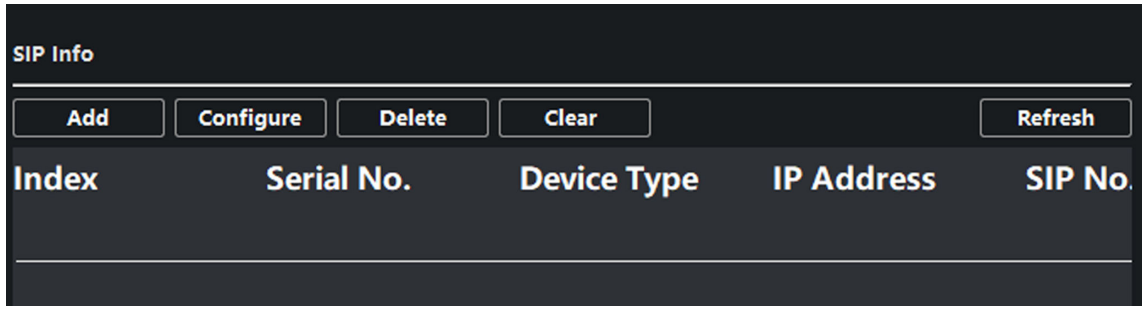

Figure 4-17 Extension Settings

2. Click **Add**.

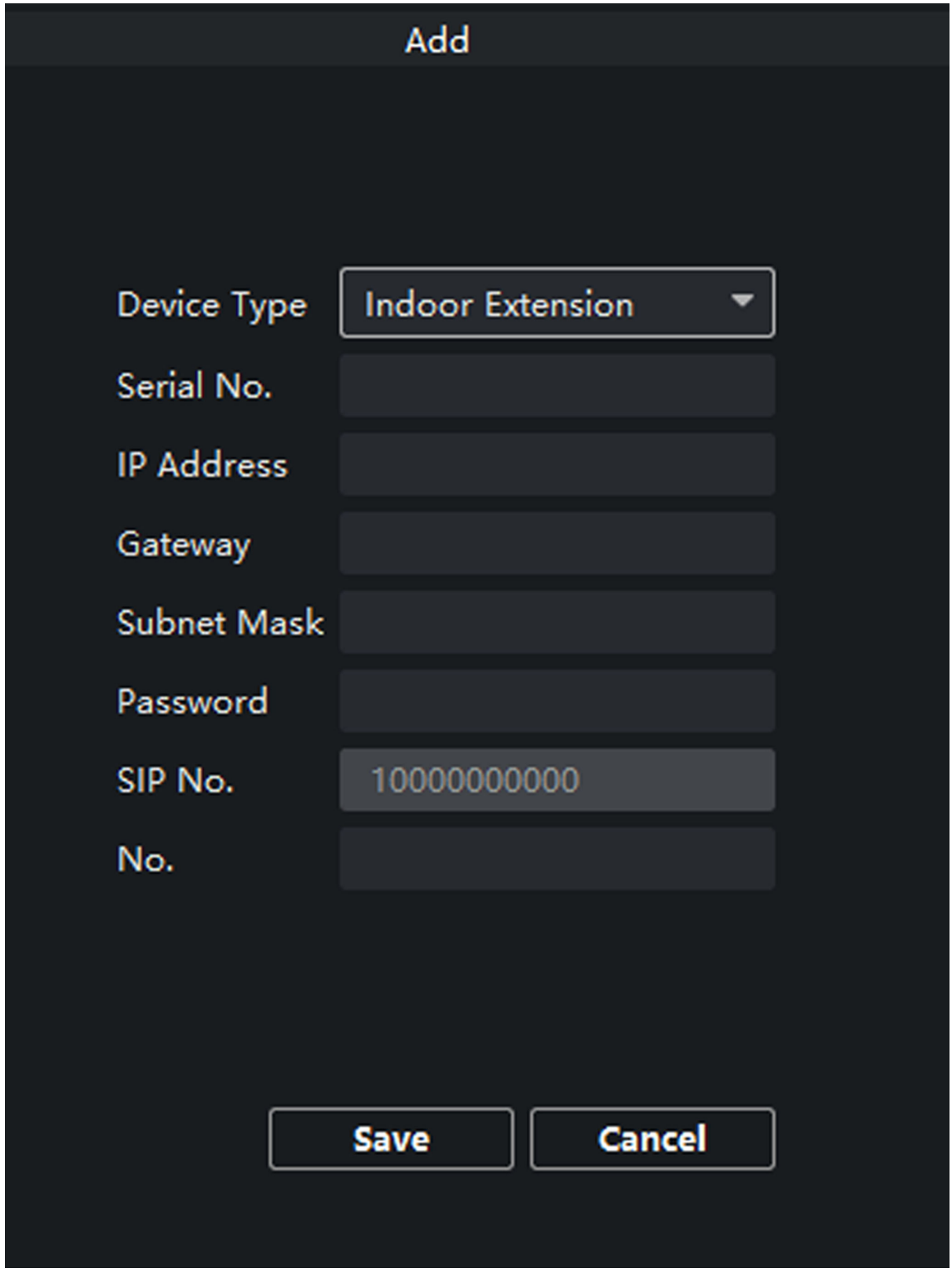

Figure 4-18 Add SIP Info

3. Select **Device Type** as **Indoor Extension**.

4. Enter the required information.

Serial No.

Enter the device's serial No.. The serial No. is on the rear panel of the device (A fixed-length number with 9 digits).

IP Address

Enter the device's IP address.

Gateway

Enter the device's gateway.

Subnet Mask

Enter the device's subnet mask.

Password

Enter the device password, ranging from 8 to 16 characters in length.

No.

Enter the device No., ranging from 1 to 5.

5. Click **Save** to enable the settings.
6. Set SIP information.

Click Configure	Configure serial No., IP address, gateway, subnet mask, password and No. of the device.
Click Delete	Delete the SIP Number.
Click Clear	Clear all SIP numbers.
Click Refresh	Refresh SIP Information.

4.3.3 Network

Local Network Configuration

Steps

1. Click **Local Network Configuration** to enter the configuring the local network parameters page.

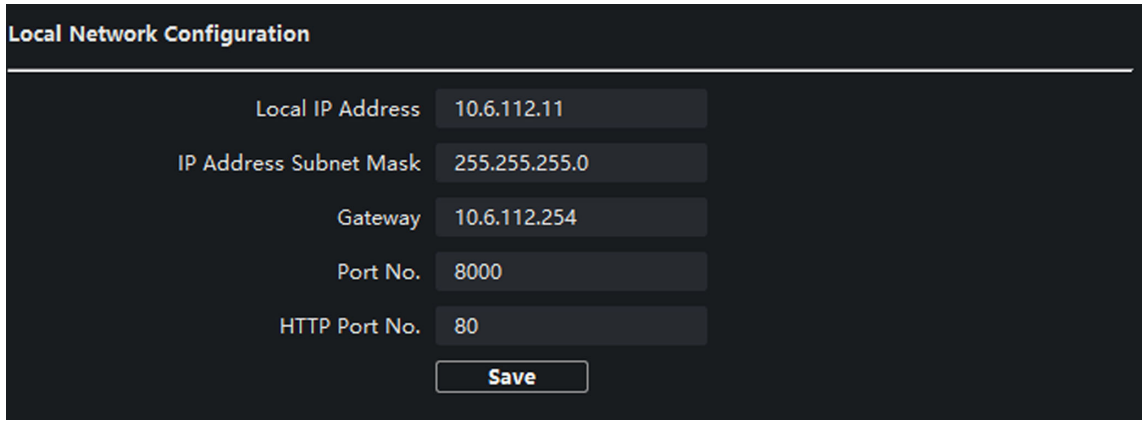

Figure 4-19 Local Network Configuration

2. Enter the **Local IP Address**, **IP Address Subnet Mask**, **Gateway**, **Port No.** and **HTTP Port No.**
3. Click **Save** to enable the settings.

Note

- The default port No. is 8000.
- After editing the local network parameters of device, you should add the devices to the device list again.

SIP Server Configuration

Steps

1. Click **SIP Server Configuration** to enter the configuring the SIP parameters page.

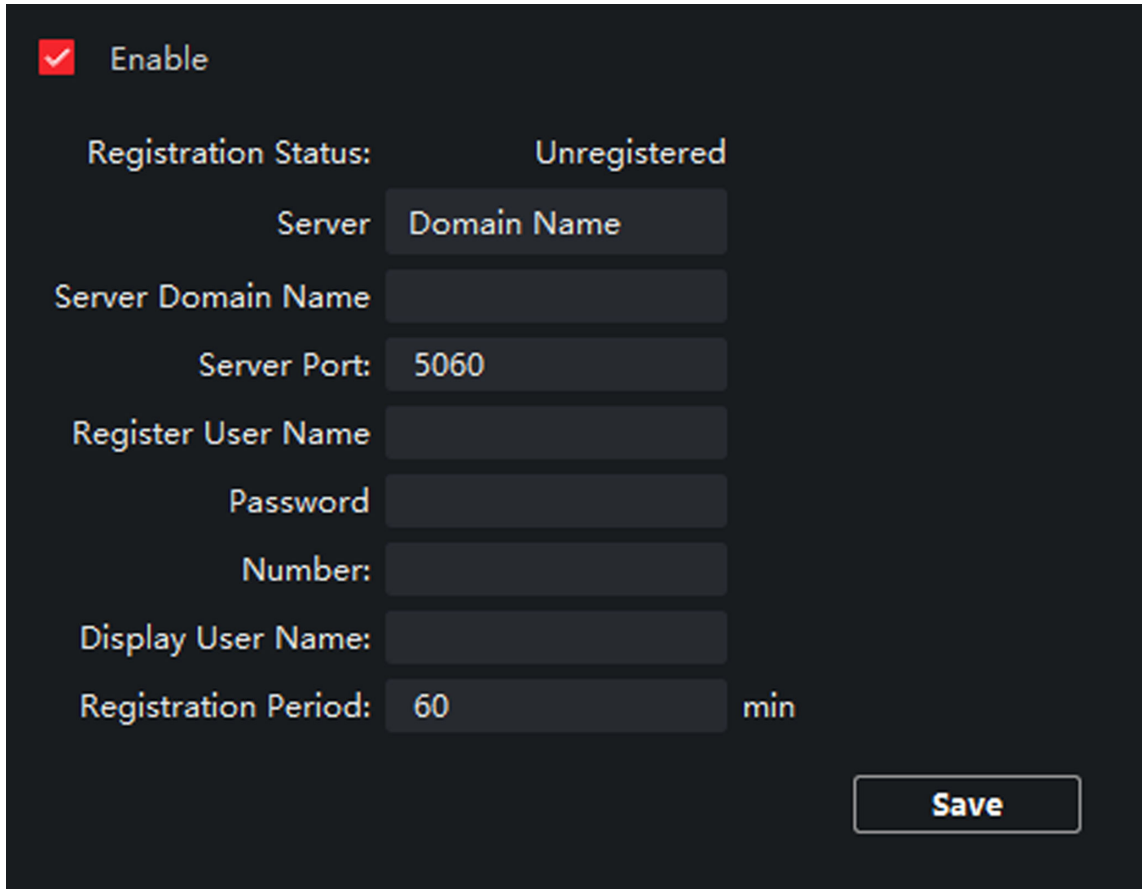

Figure 4-20 SIP Server Configuration

2. Click **Enable**.
3. Set the parameters according to your needs.

Note

- Up to 32 characters are allowed in the Register User Name field.
- Registration password should be 1 to 16 characters in length.
- Up to 32 characters are allowed in the Number field.
- The device location should contain 1 to 32 characters.
- The registration period should be between 15 minutes to 99 minutes.

4. Click **Save** to enable the settings.

DNS Settings

The indoor station supports 2 DNS address.

Click **Advanced Settings** to enter DNS address settings page.

Edit the IP address and click **Save**.

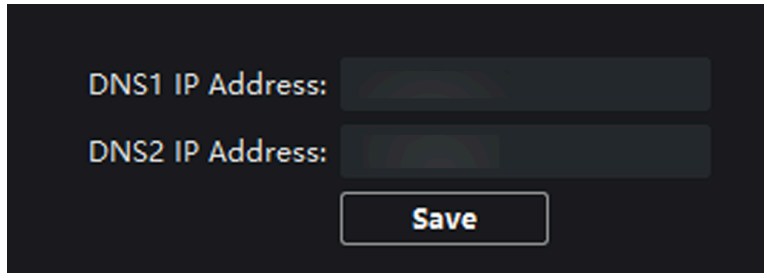

Figure 4-21 DNS Settings

Configure Mobile Client Connection

Configure **Hik-Connect** server parameters before viewing videos via mobile client.

Before You Start
Make sure the indoor station connects to the network.

Steps
1. Click **Hik-Connect** to enter the configuring the settings page.
2. Enable **Enable Hik-Connect**.

Note
- To enable Hik-Connect service, you need to create a verification code or change the verification code.
- The verification code should be 6 to 12 letters or numbers, case sensitive. You are recommended to use a combination of no less than 8 letters or numbers.

3. Enter the **Verification Code** and confirm the verification code.
4. Click **OK**.
5. Enable **Custom** and edit **Service Address**.
6. If you forget the verification code, you can enable **View**.
7. Click **Save** to enable the settings.
8. **Optional:** Click **Refresh** to refresh the settings.

Group Network Settings

Click **Group Network Settings** to enter the group network settings page.

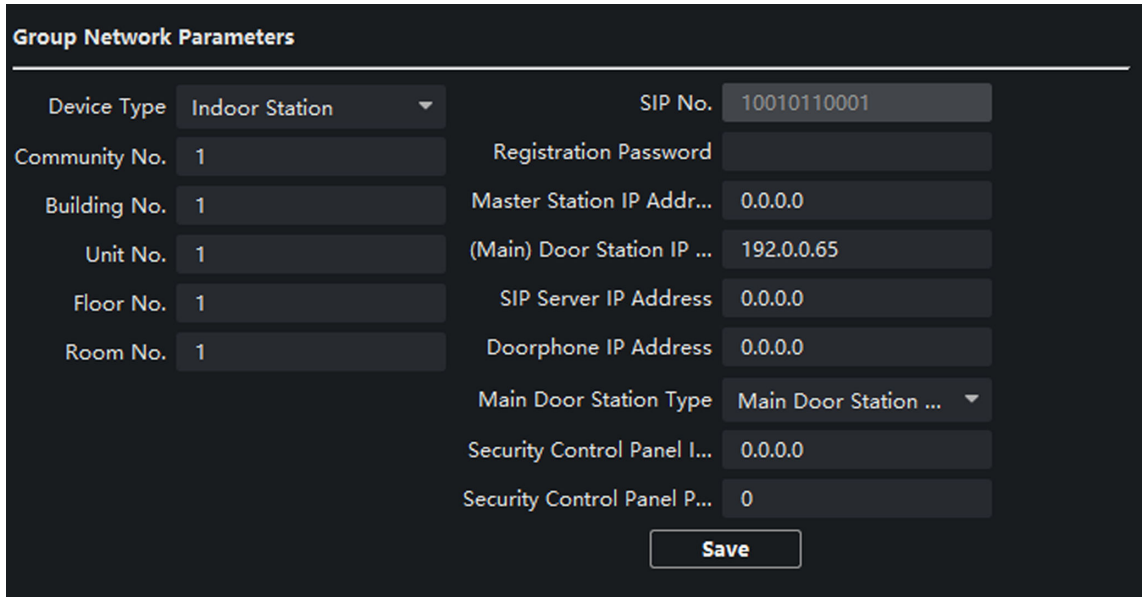

Figure 4-22 Group Network Settings

Device No. Settings

Select the device type from the drop-down list, and set the corresponding information.

Note

- Device type can be set as indoor station or indoor extension.
- When you select indoor extension as device type, the device No. can be set from 1 to 5.

Click **Save** to enable the settings.

Linked Device Network Settings

Enter **Registration Password** and set the corresponding information.

Note

- D series refers to door station, and V series refers to villa door station.
- Registration password is the password of the SIP server.

4.4 Person Management

You can add, edit, and delete the organization and person in Person Management module. Organization and person management is necessary for the video intercom function.

On the main page, click **Person** to enter the page.

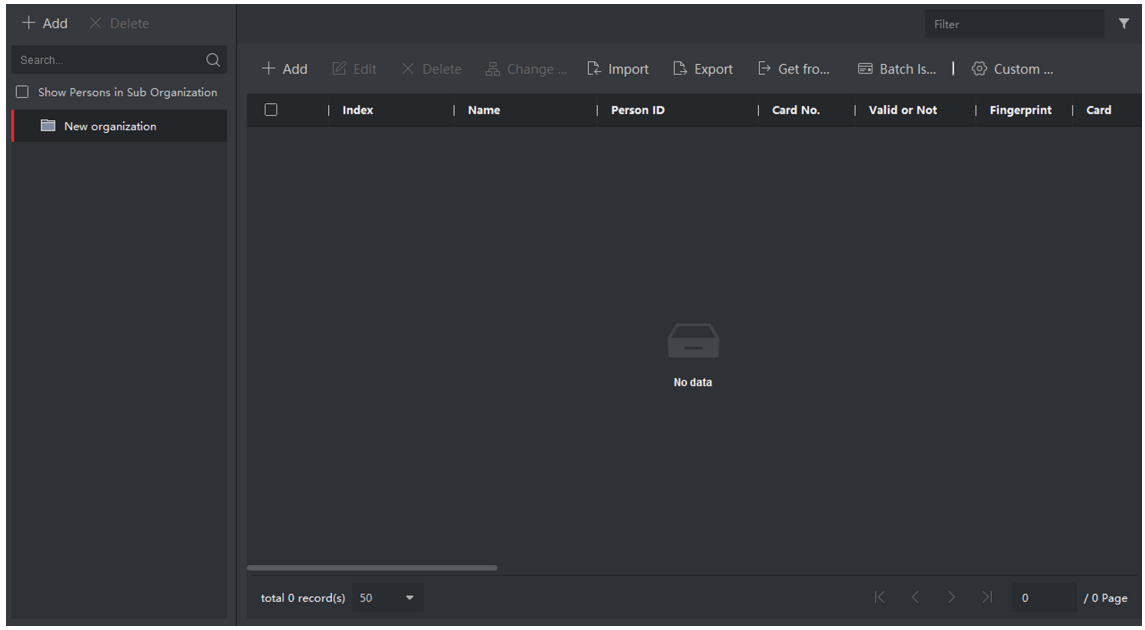

Figure 4-23 Personal Management Application

The page is divided into two parts: Organization Management and Person Management.

Organization Management	You can add, edit, or delete the organization as desired.
Person Management	After adding the organization, you can add the person to the organization and issue card to persons for further management.

4.4.1 Organization Management

On the main page of the Client Software, click **Person** to enter the configuration page.

Add Organization

Steps

1. In the organization list on the left, click **+Add**.
2. Input the organization name as desired.
3. You can add multiple levels of organizations according to the actual needs.
   1) You can add multiple levels of organizations according to the actual needs.
   2) Then the added organization will be the sub-organization of the upper-level organization.

Note

Up to 10 levels of organizations can be created.

Modify and Delete Organization

You can select the added organization and click to modify its name.

You can select an organization, and click **X** button to delete it.

Note

- The lower-level organizations will be deleted as well if you delete an organization.
- Make sure there is no person added under the organization, or the organization cannot be deleted.

4.4.2 Person Management

After adding the organization, you can add person to the organization and manage the added person such as issuing cards in batch, importing and exporting person's information in batch, etc.

Note

Up to 10,000 persons or cards can be added.

Add Person

Person information is necessary for the video intercom system. And when you set linked device for the person, the intercom between intercom devices can be realized.

Steps

1. Select an organization in the organization list and click **+Add** on the person panel to pop up the adding person dialog.

   Note

   The Person ID will be generated automatically and is editable.

2. Set basic person information.
   1) Enter basic information: name, tel, birthday details, effective period and email address.
   2) **Optional:** Click **Add Face** to upload the photo.

      Note

      The picture should be in *.jpg format.

      Click Upload — Select the person picture from the local PC to upload it to the client.

Click Take Phone Take the person's photo with the PC camera.

Click Remote Collection Take the person's photo with the collection device.

3. Issue the card for the person.
   1) Click **Credential → Card** .
   2) Click **+** to pop up the Add Card dialog.
   3) Select **Normal Card** as **Card Type**.
   4) Enter the **Card No.**
   5) Click **Read** and the card(s) will be issued to the person.
4. Add fingerprints to the person.
   1) Click **Credential → Fingerprint** .
   2) Click **+** to pop up the Add Fingerprint dialog.
   3) Select **Collection Mode**.
   4) Select **Fingerprint Recorder** or **Device**.
   5) Click **Start** to collect the fingerprint.
   6) Click **Add**.

Import and Export Person Information

The person information can be imported and exported in batch.

Steps

1. Exporting Person: You can export the added persons' information in Excel format to the local PC.
   1) After adding the person, you can click **Export Person** to pop up the following dialog.
   2) Click **...** to select the path of saving the exported Excel file.
   3) Check the checkboxes to select the person information to export.
   4) Click **OK** to start exporting.
2. Importing Person: You can import the Excel file with persons information in batch from the local PC.
   1) Click **Import Person**.
   2) You can click **Download Template for Importing Person** to download the template first.
   3) Input the person information to the downloaded template.
   4) Click **...** to select the Excel file with person information.
   5) Click **OK** to start importing.

Get Person Information from Device

If the added device has been configured with person information (including person details, fingerprint, issued card information), you can get the person information from the device and import to the client for further operation.

Steps

Note

This function is only supported by the device the connection mothod of which is TCP/IP when adding the device.

1. In the organization list on the left, select an organization to import the persons.
2. Click **Get from Device** to pop up the dialog box.
3. The added device will be displayed.
4. Click to select the device and then click **Get** to start getting the person information from the device.

Note

- The person information, including person details, person's fingerprint information (if configured), and the linked card (if configured), will be imported to the selected organization.
- If the person name stored in the device is empty, the person name will be filled with the issued card No. after importing to the client.

Modify and Delete Person

Select the person and click **Edit** to open the editing person dialog.

To delete the person, select a person and click **Delete** to delete it.

Note

If a card is issued to the current person, the linkage will be invalid after the person is deleted.

Change Person to Other Organization

You can move the person to another organization if needed.

Steps

1. Select the person in the list and click **Change Organization**.
2. Select the organization to move the person to.
3. Click **OK** to save the settings.

Appendix A. Relevant Instructions for External Power Supply and Wiring of 2-wire Video Intercom Products (2020-1-20)

Power Description

2-Wire Distributor

DS-KAD706	CH6	CH1 to CH5
	16 W	6 W
DS-KAD704	CH4	CH1 to CH3
	16 W	6 W

Modular Door Station

The main module & the sub-module maximum power consumption.

Model	Stable Power Consumption
DS-KD8003-IME2	4 W
DS-KD-KK	0.8 W
DS-KD-KP	1 W
DS-KD-DIS	2.5 W
DS-KD-E	0.8 W
DS-KD-M	0.8 W
DS-KD-INFO	1.5 W

Indoor Station

Model	Stable Power Consumption
DS-KH6320-WTE2	6 W

Example of the Calculation Model of the Modular Door Station Sub-Module

The sum of the power consumption of each module must be less than the total power consumption of the power supply.

2-Wire					
Model	DS-KD8003-IME2	DS-KD-DIS	DS-KD-KP	DS-KD-M	/
Quantity	1	1	2	2	/
Power	4 W	2.5 W	2 W	1.6 W	Total: 10.1 W

Because 10.1 W ≤ 16 W, we can support powering this device through KAD706 channel 6 or KAD704 channel 4.

2-Wire				
Model	DS-KD8003-IME2	DS-KD-M	DS-KD-KK	/
Quantity	1	1	12	/
Power	4 W	0.8 W	9.6 W	Total: 14.4 W

Because 14.4 W ≤ 16 W, we can support powering this device through KAD706 channel 6 or KAD704 channel 4.

Wire Testing Standards

- When there are multiple cores in one parallel line, only one pair of closed cores are allowed to transmit signal. It is not allowed to use multiple pair of cores in one cable to transmit signal.
- When using parallel lines, it is suggested to use those with shielding layer. If dual core or multiple core parallel lines without shielding layer are routed, stability of signal transmission can be effected. You need to run a test before installation.
- Impedance of twist pair in network cable are over 42 Ω/100 m, so network cable cannot transmit enough power to indoor station. Network cable is not allowed to use during installation.
- Strong electricity and weak electricity cannot be wired in the same route, they need to be wired separately and the distance should be more than 0.5 meter.

Table A-1 Table A

Routing Path	Twisted Pair : 24 AWG (0.2 mm^2)	Twisted Pair : 20 AWG (0.5 mm^2)	Twisted Pair : 18AWG (0.8 mm^2)	Twisted Pair : 16AWG (1 mm^2)	Parallel lines (0.5 mm^2 to 0.8 mm^2)
DS-KAD706-S-DS-KAD706	Transmission Distance ≤ 60 m	Transmission Distance ≤ 60 m	Transmission Distance ≤ 60 m	Transmission Distance ≤ 50 m	Transmission Distance ≤ 35 m
DS-KAD706-DS-KAD706	Transmission Distance ≤ 60 m	Transmission Distance ≤ 60 m	Transmission Distance ≤ 60 m	Transmission Distance ≤ 50 m	Transmission Distance ≤ 35 m
DS-KAD706-DS-KD8003-IME2	Transmission Distance ≤ 35 m	Transmission Distance ≤ 60 m	Transmission Distance ≤ 60 m	Transmission Distance ≤ 50 m	Transmission Distance ≤ 35 m
DS-KAD706-DS- KH6320-WTE2	Transmission Distance ≤ 35 m	Transmission Distance ≤ 100 m	Transmission Distance ≤ 100 m	Transmission Distance ≤ 100 m	More parameters in Table B

Routing Path	Parallel lines: 24 AWG (0.2 mm^2)	Parallel lines: 20 AWG (0.5 mm^2)	Parallel lines: 18 AWG (0.8 mm^2)	Parallel lines: 16 AWG (1 mm^2)
DS-KAD706- DS-KH6320-WTE2	Transmission Distance ≤ 50 m	Transmission Distance ≤ 100 m	Transmission Distance ≤ 100 m	Transmission Distance ≤ 100 m

Device Installation

- Installation environment (temperature, moisture etc.) need to follow requirements in specification or power output can be effected.
- Power consumption of modular door station (main module and sub modules) should be less than 12W. Please reach local technical support if you are not sure about power consumption of each module. Door station should be connected to CH6 of the video/audio distributor. If modular door station is connected to any terminal of CH1 to CH5, up to 3 sub modules can be connected.
- Indoor station should be connected to any terminal of CH1 to CH5 of the video/audio distributor.
- Up to 15 video/audio distributor can be cascaded. If more distributors are needed, you should cascade network switch supporting 1000 Mbps. The whole 2-wire system can have up to 500 devices.
- Power supply must be certified by Hikvision.
- Indoor station needs to use firmware released after October, 2019.


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