



# Video Intercom Indoor Station

Configuration Guide

## Legal Information

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### About this Manual

The Manual includes instructions for using and managing the Product. Pictures, charts, images and all other information hereinafter are for description and explanation only. The information contained in the Manual is subject to change, without notice, due to firmware updates or other reasons. Please find the latest version of this Manual at the Hikvision website (<https://www.hikvision.com/>).

Please use this Manual with the guidance and assistance of professionals trained in supporting the Product.

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During the use of device, personal data will be collected, stored and processed. To protect data, the development of Hikvision devices incorporates privacy by design principles. For example, for device with facial recognition features, biometrics data is stored in your device with encryption method; for fingerprint device, only fingerprint template will be saved, which is impossible to reconstruct a fingerprint image.

As data controller, you are advised to collect, store, process and transfer data in accordance with the applicable data protection laws and regulations, including without limitation, conducting security controls to safeguard personal data, such as, implementing reasonable administrative and physical security controls, conduct periodic reviews and assessments of the effectiveness of your security controls.

## Symbol Conventions

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

Symbol	Description
 <b>Danger</b>	Indicates a hazardous situation which, if not avoided, will or could result in death or serious injury.
 <b>Caution</b>	Indicates a potentially hazardous situation which, if not avoided, could result in equipment damage, data loss, performance degradation, or unexpected results.
 <b>Note</b>	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



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](http://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](http://www.recyclethis.info)

### Industry Canada ICES-003 Compliance

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

1. This device complies with Industry Canada licence-exempt RSS standard(s). Operation is subject to the following two conditions: this device may not cause interference, and
  2. this device must accept any interference, including interference that may cause undesired operation of the device.
- 
1. Le présent appareil est conforme aux CNR d'Industrie Canada applicables aux appareils radioexempts de licence. L'exploitation est autorisée aux deux conditions suivantes : 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.

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## 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-KH8520-WTE1/DS-KH6320-WTE1/DS-KH6320-TE1/DS-KH6320-WTE2/DS-KH8350-TE1/DS-KH8350-WTE1

Scan the QR code to get the configuration guide for detailed information.



Scan the QR code to get the operation guide for detailed information.



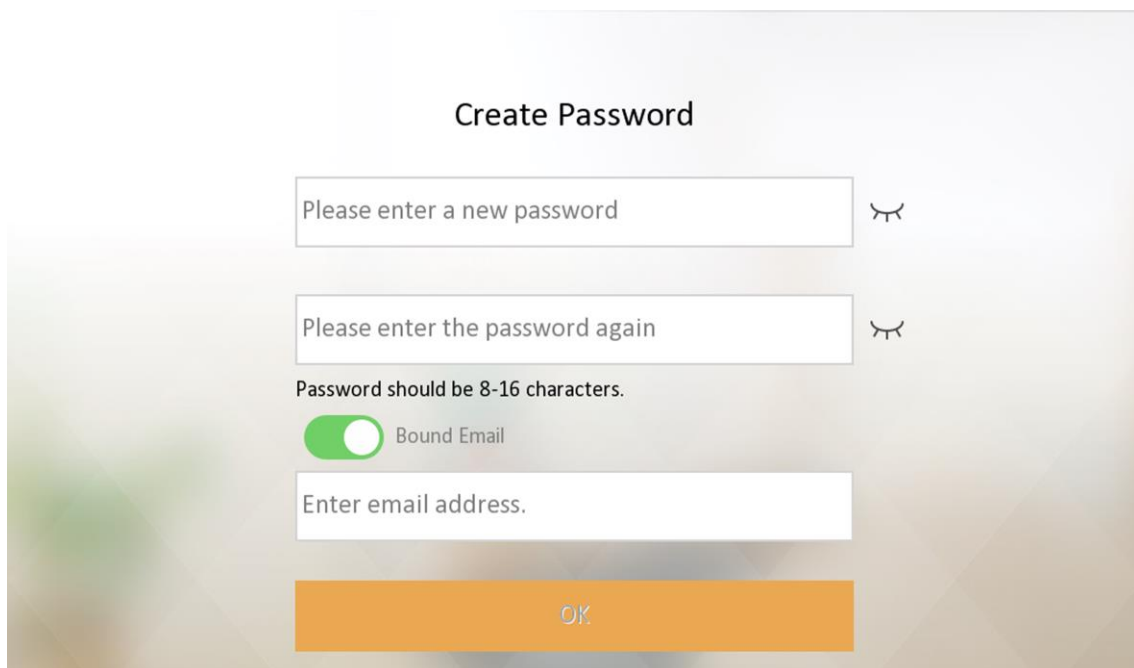
## Chapter 2 Local Operation

### 2.1 Activate Indoor Station

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

#### Steps

1. Power on the device. It will enter the activation page.



**Figure 2-1 Activation Page**

2. Create a password and confirm it.
3. Optional: Bind email address. You can reset the activation/admin password via the email if you forget your password.
  - 1) Enable **Bind Email**.

---

#### **Note**

By default, the function is enabled.

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- 2) Enter the email address.
4. Tap **OK** to activate the indoor station.

### 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.

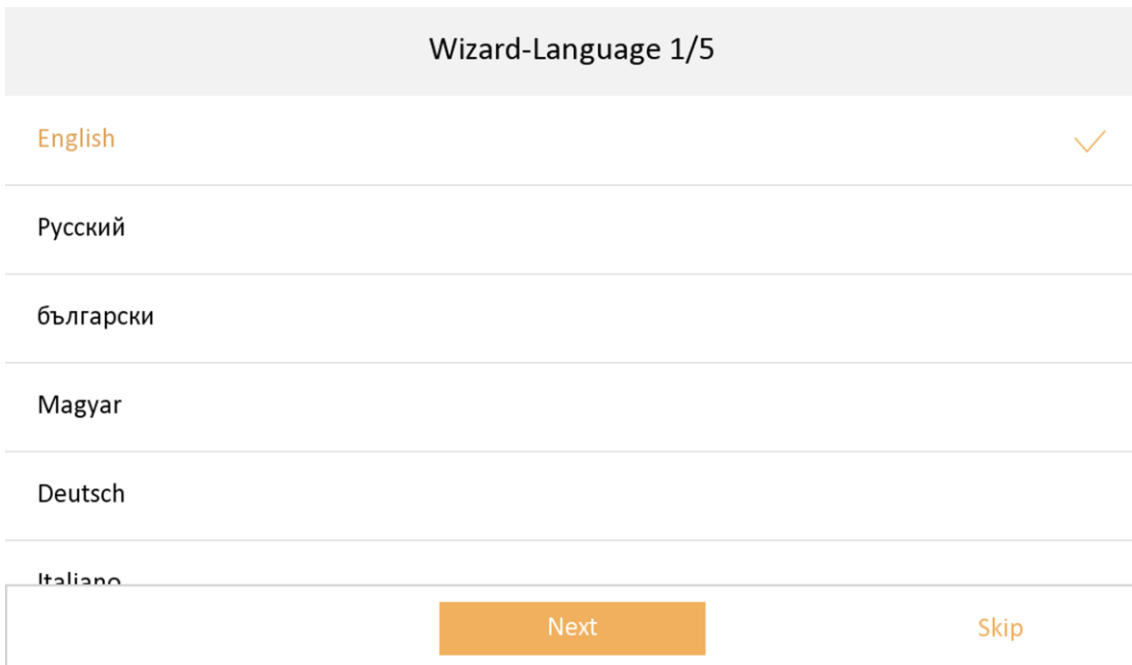
---

## 2.2 Quick Operation

After device activation, the wizard page will pop up.

### Steps

1. Choose Language and tap **Next**.



The screenshot shows a configuration screen titled "Wizard-Language 1/5". It features a list of language options: English (with an orange checkmark), Русский, български, Magyar, Deutsch, and Italiano. At the bottom, there are two buttons: "Next" (highlighted in orange) and "Skip".

**Figure 2-2 Language Settings**

2. Set network parameters and tap **Next**.
  - Edit **Local IP**, **Subnet Mask** and **Gateway** parameters.
  - Enable **DHCP**, the device will get network parameters automatically.

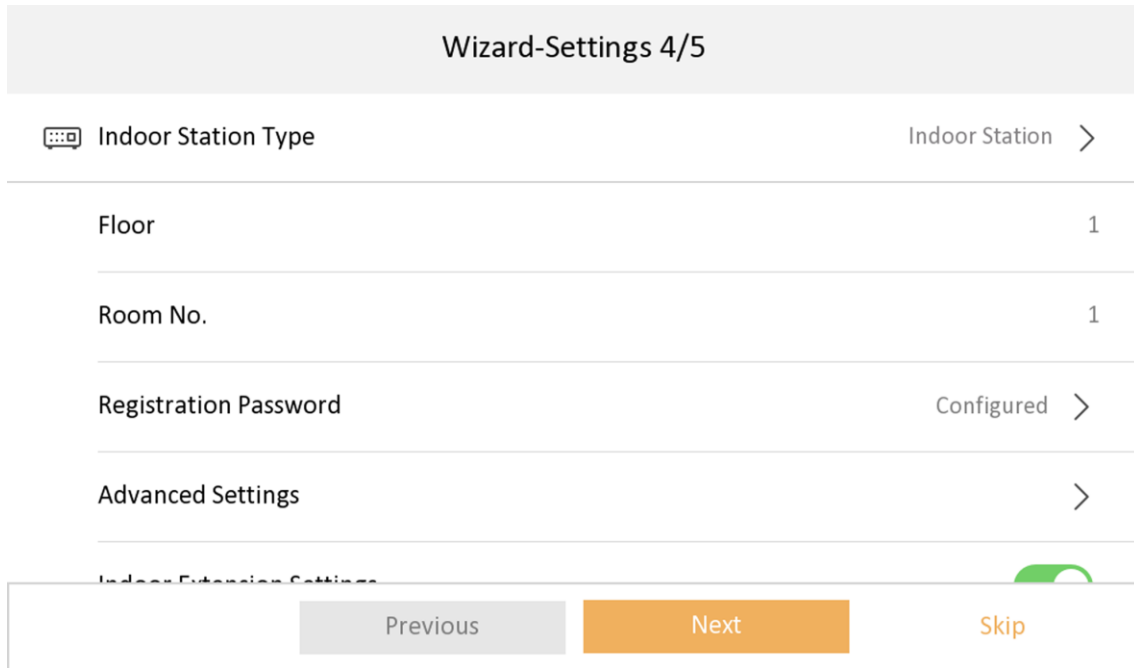
Wizard-Network 2/5

	DHCP	<input type="checkbox"/>
<hr/>		
	Local IP	<input type="text"/>
<hr/>		
	Subnet Mask	255.255.255.0
<hr/>		
	Gateway	<input type="text"/>
<hr/>		

PreviousNextSkip

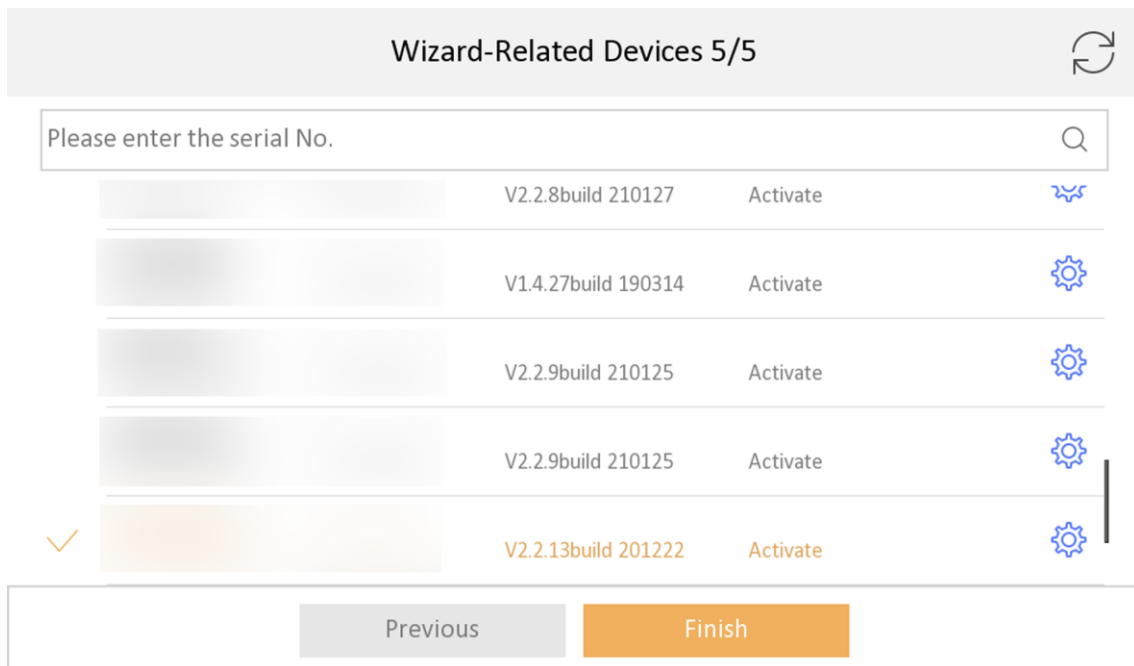
**Figure 2-3 Network Parameters**

3. Configure the **Hik-Connect** service settings.
  - 1) Enable **Hik-Connect** service.
  - 2) Set **LBS Server**.
  - 3) Slide the slider to edit verification code or use the activation password by default.
  - 4) Tap **Next**.
4. Configure the indoor station.
  - 1) Select **Device Type** as **Indoor Station**.
  - 2) Set **Registration Password**.
  - 3) Configure advanced settings.
  - 4) Optional: Enable **Indoor Extension Settings** to add indoor extensions.
  - 5) Tap **Next**.



**Figure 2-4 Indoor Station Settings**

5. 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 2-5 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) Tap  to pop up the Network Settings page.
- 3) Edit the network parameters of the door station manually or enable **DHCP** to get the network parameters automatically.
- 4) Optional: Enable **Synchronize Language** to synchronize the language of door station with indoor station.
- 5) Tap **OK** to save the settings.
6. Tap **Finish** to save the settings.

## 2.3 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.

### 2.3.1 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



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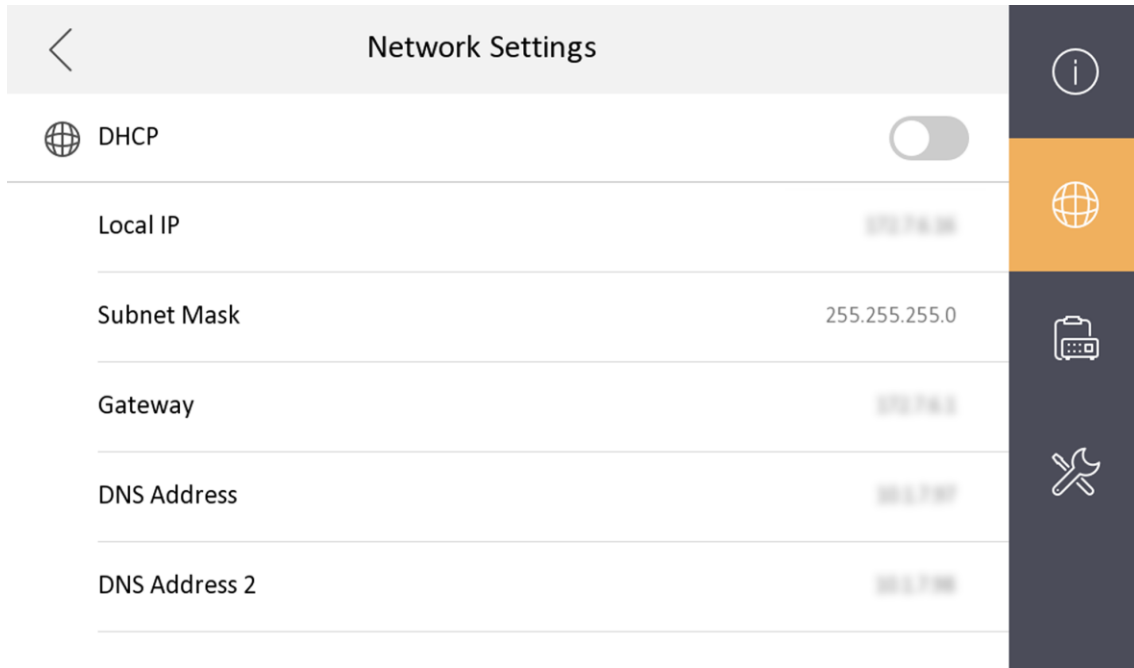
### Note

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 2-6 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.

### 2.3.2 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

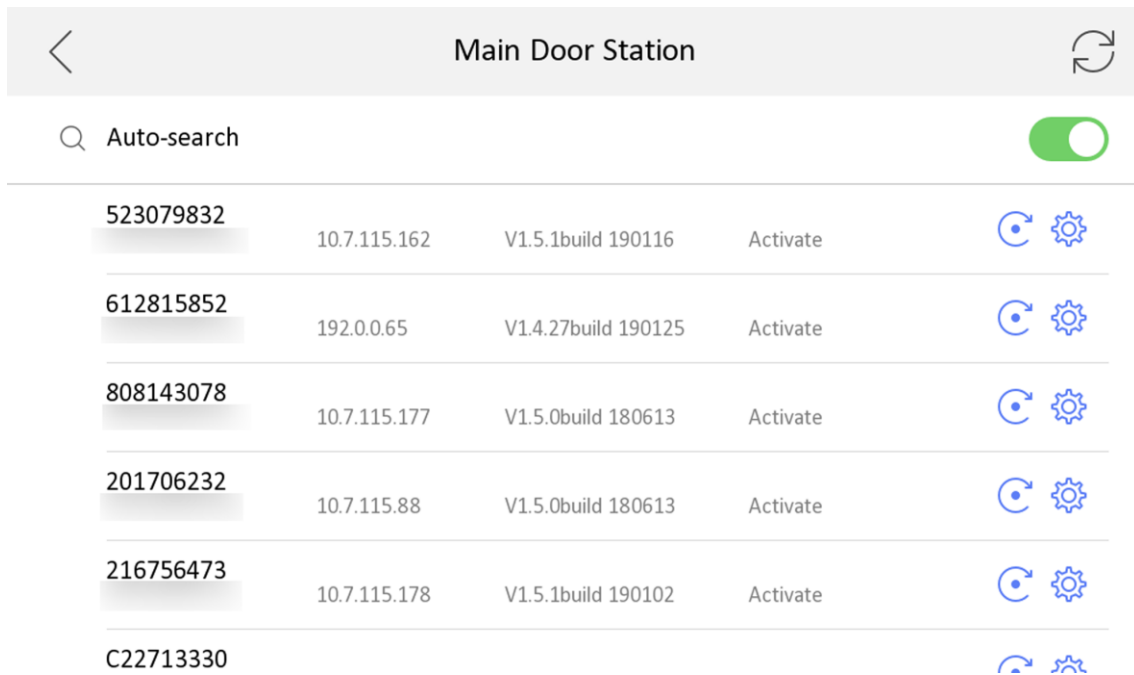
---

#### Note

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

1. Tap **Settings** → → **Configuration**, and enter admin (activation) password.
2. Tap to enter the device management page.
3. Tap **Indoor Extension** and select a connect indoor extension.

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



**Figure 2-7 Device Information**



Restore the door station via indoor station.  
Tap to restore the parameters of the door station.



Modify the IP address of the linked door station.  
Tap to edit the IP address of door station.

5. Select the device to link. Edit the network parameters.

### 2.3.3 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. and the room 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**, and enter admin (activation) password.
2. Tap to enter the indoor station settings page.
3. Select **Indoor Station Type** from **Indoor Station** or **Indoor Extension** according to your actual needs.
  - Indoor Station: You can set the indoor station's room information, including the room name,



community No., building No., Unit No., floor, and room No., the live view duration, the SIP register password, the SIP parameters, password and E-mail address.


- Indoor Extension: You can set the indoor extension's room information, including the room name and the extension No., live view duration, the SIP register password, password and E-mail address..

4. Tap **Room Information** and set room name, community No., building No., unit No., floor No., and room No. according to your actual needs.

### 2.3.4 SIP Settings

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

#### Steps

1. Tap **Settings** →  → **Configuration**, and enter admin (activation) password.
2. Tap **SIP Settings** in Local Information Page.
3. Set SIP registration password.
  - 1) Tap **Registration Password**.
  - 2) Create a new SIP register registration password and confirm the password.
  - 3) Tap **OK**.
4. Optional: Enable standard SIP.
  - 1) Enable **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.

---



#### Note

Up to 32 characters are allowed in the user name.

---

### 2.3.5 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 **HIK Protocol** and you can add the camera depended on the **HIK protocol**.
5. Enter the device name and IP address.
6. Edit port No. and channel No.
7. Enter the device user name and the password of the camera.
8. Exit the page to save the settings.

## 2.3.6 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

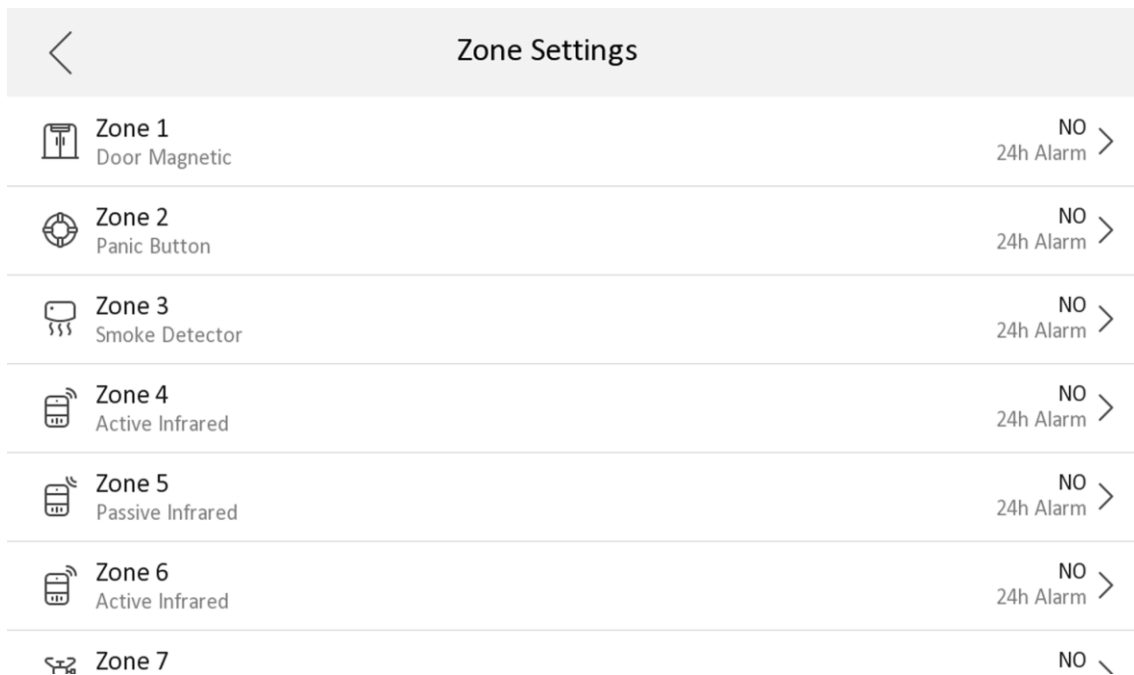
Tap **Settings** →  → **Shortcut Settings**, and enable **Alarm**.

#### 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 2-8 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.

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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 and Smoke Detector, 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



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.

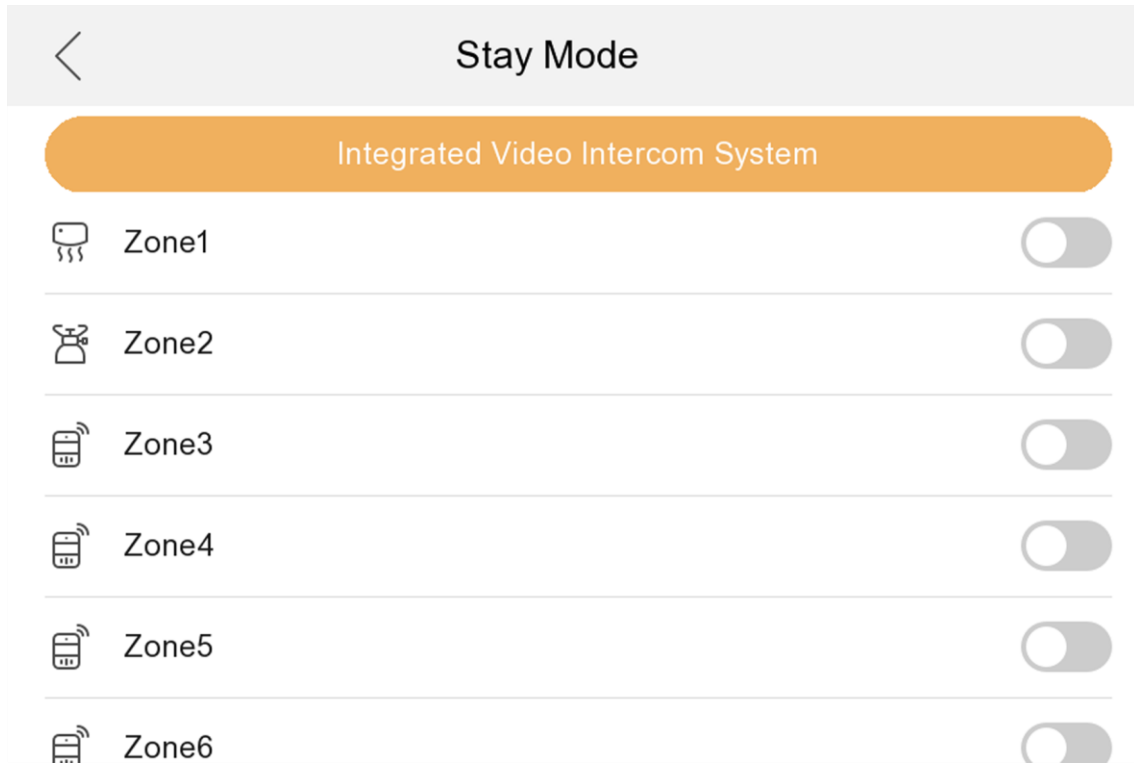


Figure 2-9 Arming Mode Settings

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.
- 

## 2.4 Password Settings

### 2.4.1 Modify Admin Password

If you forget admin (activation) password when entering Configuration page, you can modify it via verification code from E-mail.

#### Before You Start

The E-mail address has been registered after activation.

### Steps

1. Tap **Forget Password** in Admin Password Entering page.
2. Run **Hik-Connect** client software.
3. Scan the QR code via **Hik-Connect**.
4. Open the E-mail to get the verification code.
5. Tap **Next**, and enter the verification code from the E-mail.
6. Tap **Next**, and create the new password.

---

### Note


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

---

## 2.4.2 Modify Arm/Disarm Password

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


### Steps

1. Tap **Settings** →  → **Operation Password** to enter the settings page.
2. Create the indoor station's arm/disarm password. You should enter the arm/disarm password to enable or disable the function.
3. When you slide to disable **Scene Password**, there is no needs to enter password during scene mode switching.

## 2.4.3 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 **Access Password**.
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.

## 2.5 Synchronize Time

### Steps

1. Tap **Settings** →  → **Time and Date** to enter the time synchronization page.



**Figure 2-10 Time Synchronization**

2. Tap **Date Format** and **Time Format** to set the time format.

3. Optional: Tap **Time** to set time manually.

4. Tap **Sync Time**.

1) Enable **Enable NTP**.

2) Set the synchronizing interval, enter the IP address/domain of NTP server and port No., and select the time zone.

---

### **Note**

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


## 2.6 Sound Settings

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

### 2.6.1 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.

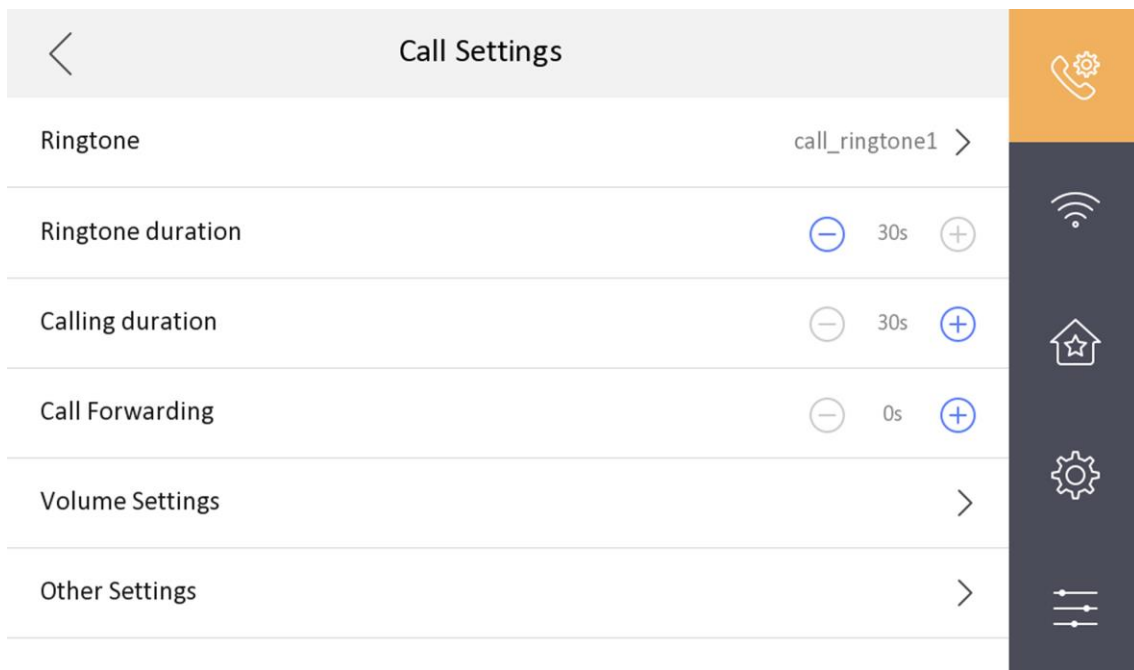


Figure 2-11 Call Settings

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

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**. While calling from door station/ villa door station, user can leave messages after ringing.

#### 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.



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

---

## 2.6.2 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.

**Figure 2-12 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.

## 2.7 Link to the Mobile Client

### Steps

1. Tap **Settings** →  → **Hik-Connect Service Settings** to enter the settings page.
2. Enable **Enable Hik-Connect Service**.
3. Edit **LBS** server and **Verification Code**.



### Note

Verification code is used to add the device to mobile client.

---

4. Optional: Scan the QR code on the screen.



---

### Note

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

## 2.8 Restore Indoor Station

### Steps

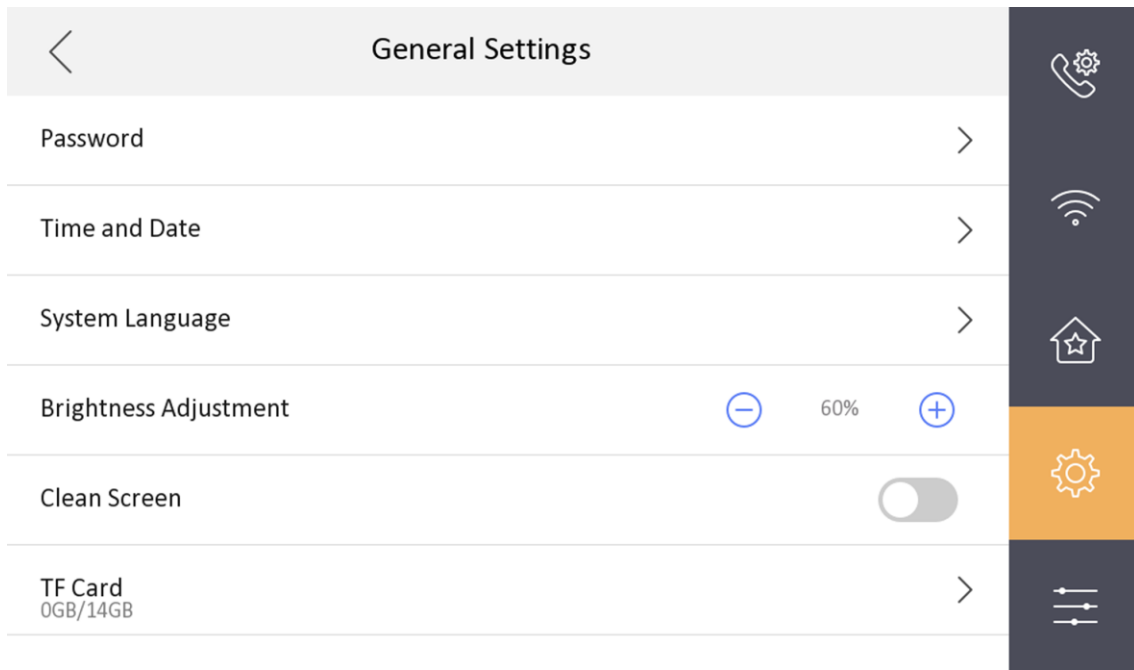
1. Tap **Settings** →  → **Configuration**, and enter admin (activation) password.
2. Tap  to enter the system maintenance page.
3. Tap **Restore Default Settings** to restore the default settings and reboot the system.
4. Tap **Restore All** to restore all parameters and reboot the system.

## 2.9 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 2-13 General Settings Page**

### Time and Date

You can set the displayed time and date format, current time. You can also tap **Sync Time** and enable NTP to synchronize the device time.

#### 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.

## Video Intercom Indoor Station Configuration Guide


---

- 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 Device


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

Tap **Reboot Device** to reboot the system.

### Maintenance

Tap **Settings** →  → **Configuration**.

Enter the admin (activation) password and tap **OK** to enter the local information page.

Tap  to enter the system maintenance page.

### Upgrade

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


### Unlink APP Account

Unlink the Hik-Connect account from the platform.

### Wizard

Tap **Wizard** and set the language, network, indoor station type, device No., and select a device according to the wizard.

### 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](#).

### 2.10 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, module, and serial No.
3. Optional: Tap **Open Source Disclaimer** to view the OSS statement.

### 2.11 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.

## Chapter 3 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.

### 3.1 Activate Device Remotely

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.

### 3.2 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.

### 3.2.1 Add Video Intercom Devices

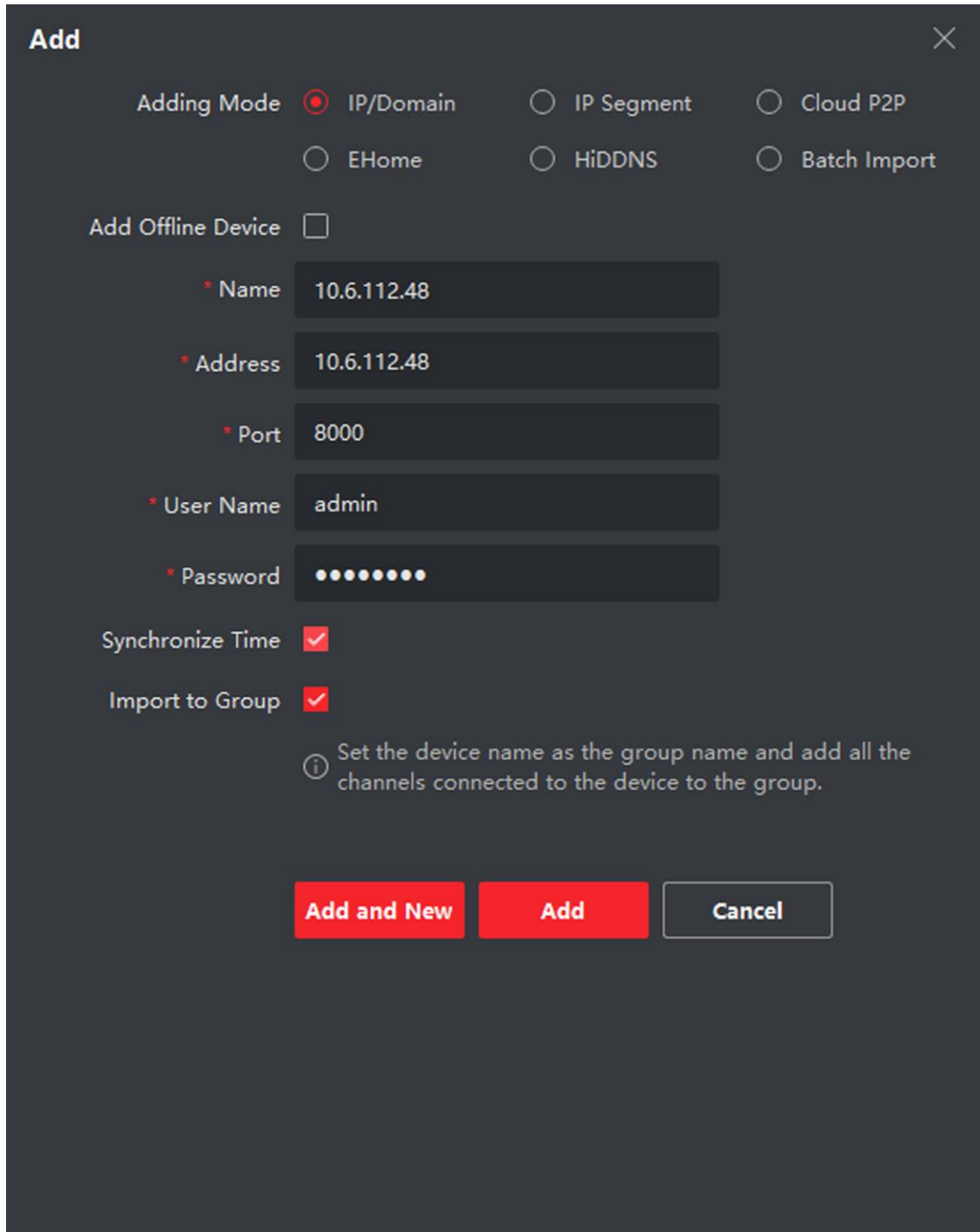
#### Steps

---

 **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.



**Add** ✕

Adding Mode  IP/Domain  IP Segment  Cloud P2P  
 EHome  HiDDNS  Batch Import

Add Offline Device

\* Name 10.6.112.48

\* Address 10.6.112.48

\* Port 8000

\* User Name admin

\* Password ●●●●●●●●

Synchronize Time

Import to Group

i Set the device name as the group name and add all the channels connected to the device to the group.

**Add and New** **Add** **Cancel**

**Figure 3-1 Add the Device**

- 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. By default, the password is 12345.

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.
- 

### 3.2.2 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.

---


## 3.3 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.

## 3.4 Remote Configuration

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

### 3.4.1 System

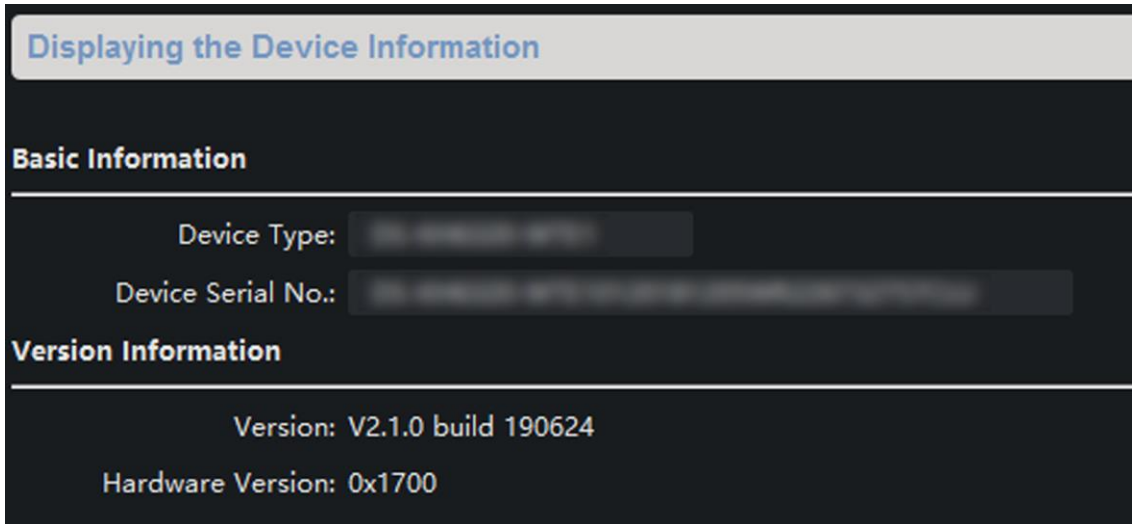
Click **System** on the remote configuration page to display the device information: Device

---

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.



The screenshot shows a web interface titled "Displaying the Device Information". It is divided into two sections: "Basic Information" and "Version Information".

Basic Information	
Device Type:	[Redacted]
Device Serial No.:	[Redacted]

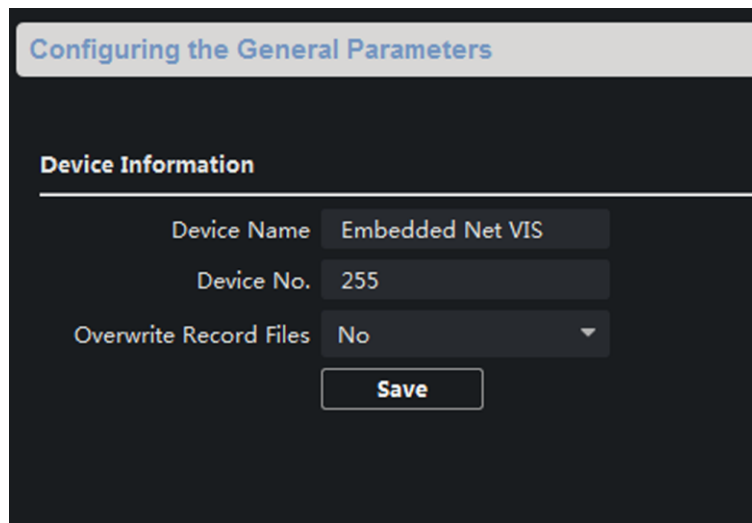
  

Version Information	
Version:	V2.1.0 build 190624
Hardware Version:	0x1700

Figure 3-2 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.



The screenshot shows a web interface titled "Configuring the General Parameters". It contains a "Device Information" section with the following fields:

Device Information	
Device Name	Embedded Net VIS
Device No.	255
Overwrite Record Files	No

Below the fields is a "Save" button.

Figure 3-3 General

### Time

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

**Configuring the Time Settings (e.g., NTP)**

**Time Zone**

Select Time Zone (GMT+08:00) Beijing, Hong Kong, Perth, S...

**Enable NTP**

Server Address 0.0.0.0

NTP Port 123

Synchronization Interval 60 min

**Enable DST**

Start Time Apr. First Sunday 2 : 00

End Time Oct. The Last Sunday 2 : 00

DST Bias 60 min

**SDK Synchronization**

Synchronization

Save

**Figure 3-4 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.

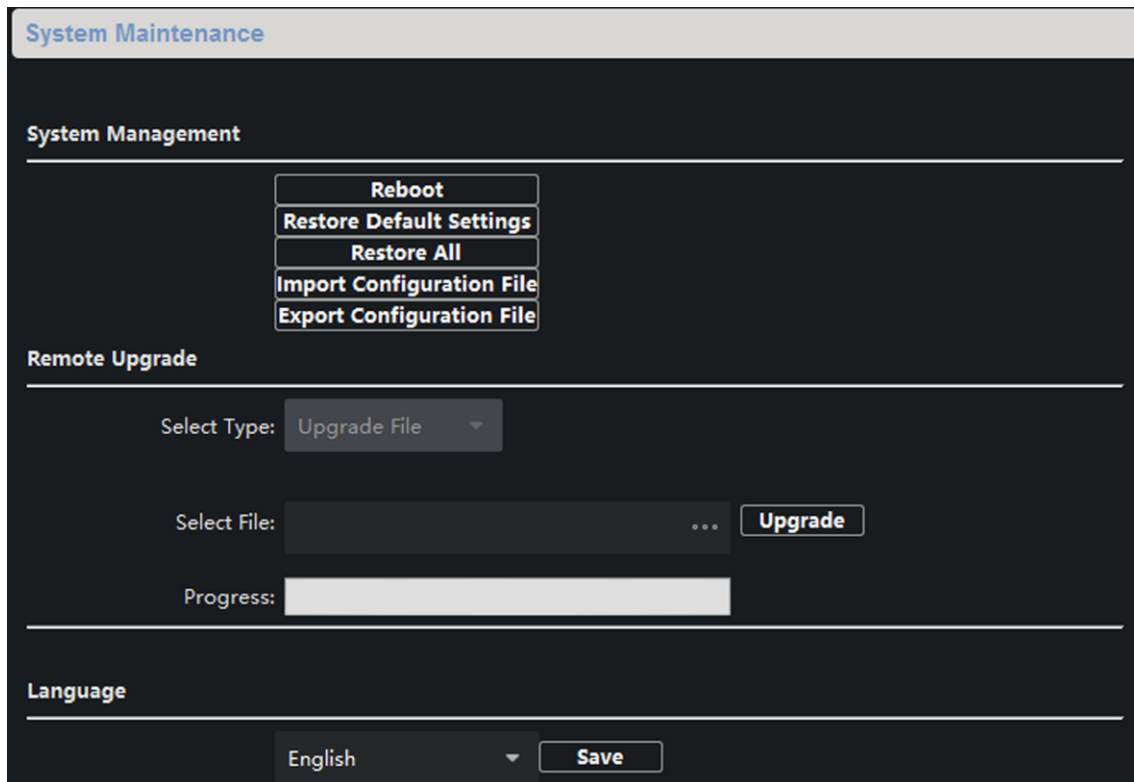
### **Note**

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 3-5 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,

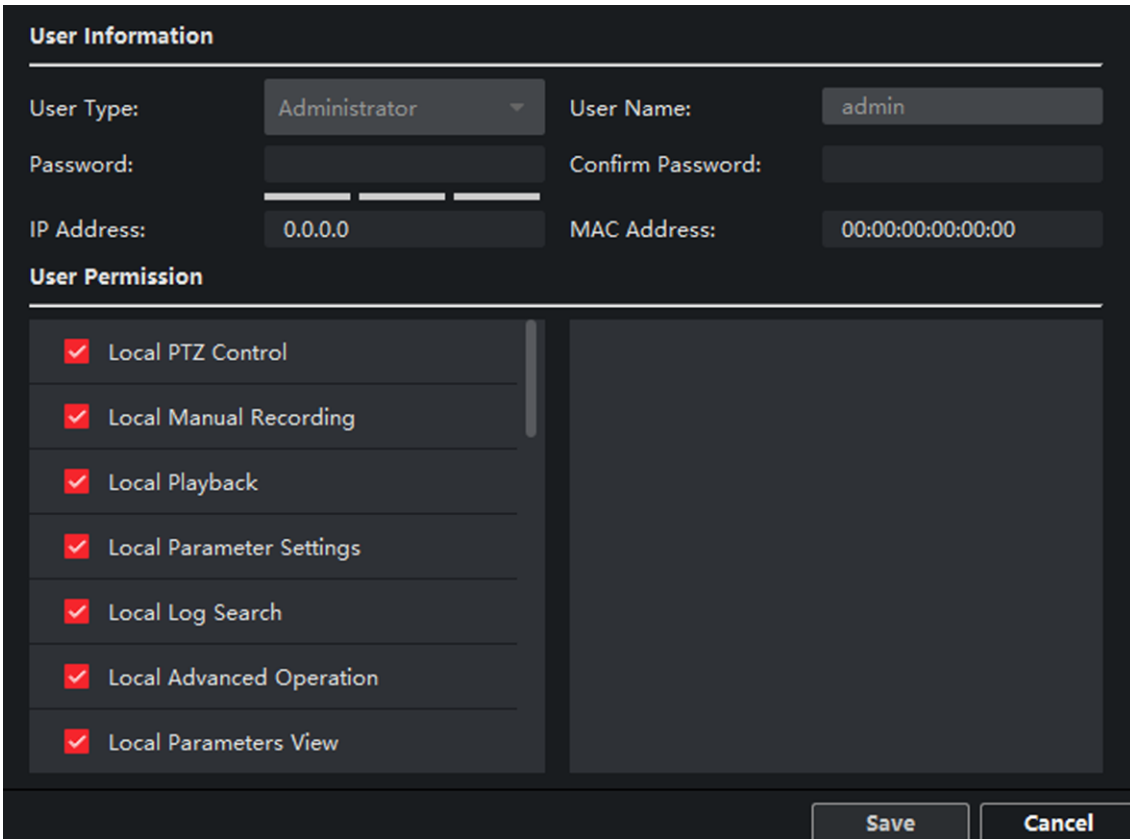
German, Italian, Polish, Arabic, Turkish, Vietnamese, Ukrainian, Hungarian, Dutch, Romanian, Czech, Bulgarian, Croatian, Serbian.

- o 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.



The screenshot shows a configuration page for a user. It is divided into two main sections: "User Information" and "User Permission".

**User Information:**

- User Type: Administrator (dropdown menu)
- User Name: admin (text input)
- Password: (text input)
- Confirm Password: (text input)
- IP Address: 0.0.0.0 (text input)
- MAC Address: 00:00:00:00:00:00 (text input)

**User Permission:**

- Local PTZ Control
- Local Manual Recording
- Local Playback
- Local Parameter Settings
- Local Log Search
- Local Advanced Operation
- Local Parameters View

At the bottom right, there are two buttons: "Save" and "Cancel".

Figure 3-6 User Page

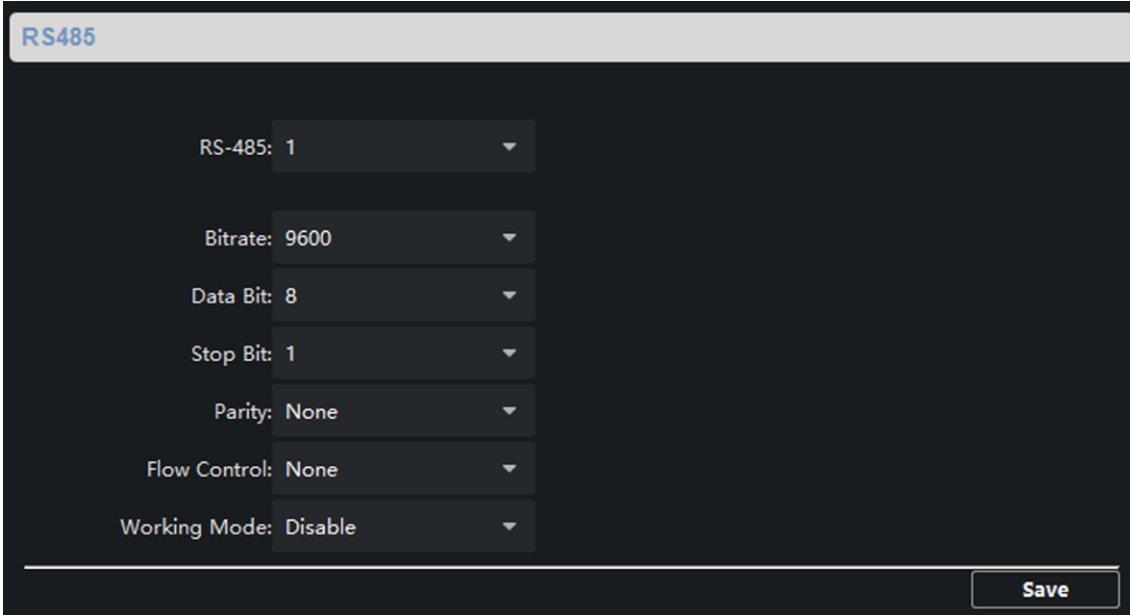
---

### 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.



The screenshot shows a configuration window titled "RS485" with a dark background. It contains several settings, each with a label and a dropdown menu:

- RS-485: 1
- Bitrate: 9600
- Data Bit: 8
- Stop Bit: 1
- Parity: None
- Flow Control: None
- Working Mode: Disable

A "Save" button is located at the bottom right of the window.

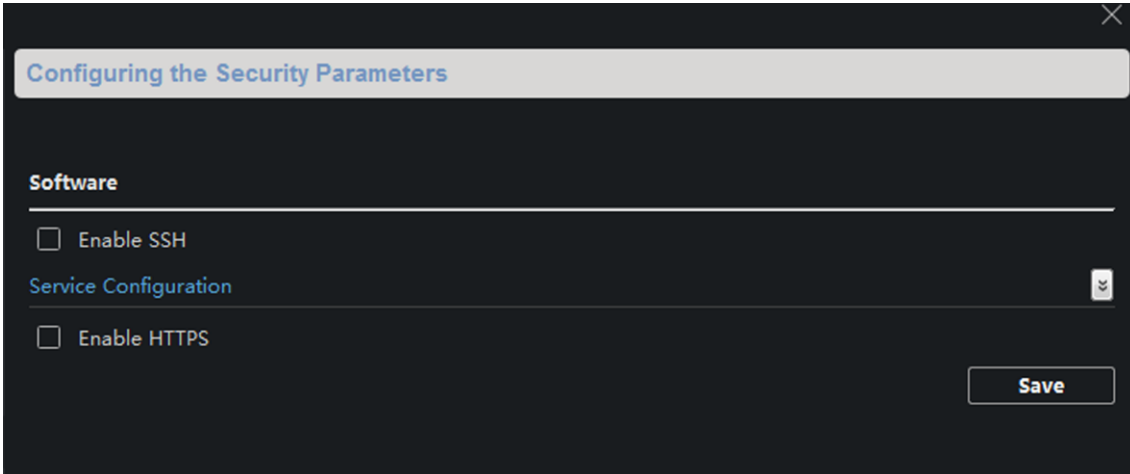
Figure 3-7 RS-485 Settings

### 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.



The screenshot shows a configuration window titled "Configuring the Security Parameters" with a dark background. It contains two sections:

- Software**
  - Enable SSH
- Service Configuration**
  - Enable HTTPS

A "Save" button is located at the bottom right of the window.

Figure 3-8 Security

### 3.4.2 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.

Time Parameters		
Device Type	Indoor Station	
Calling Duration	30	Seconds
Live View Duration	30	Seconds
Call Forwarding	0	Seconds
Ringtone Duration	30	Seconds

Save

**Figure 3-9 Time Parameters**

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

---

#### Note

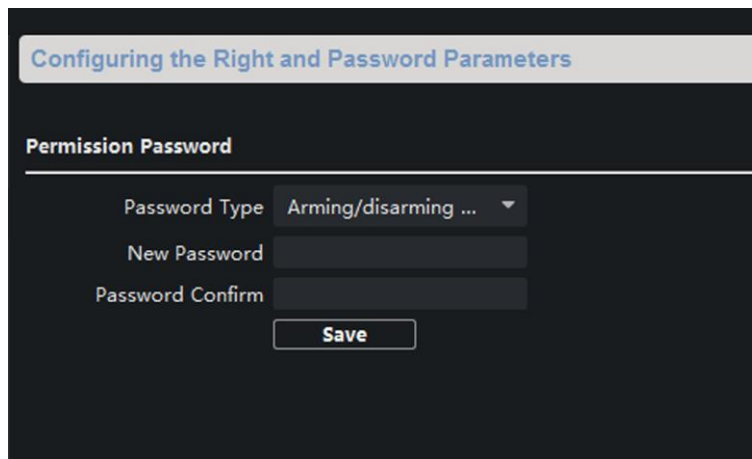
- Calling duration is the maximum duration of indoor station when it is called without being received. The range of maximum ring duration varies from 30s to 60s.
- Live view duration is the maximum time of playing live view of the indoor station. The range of maximum live view time varies from 10s to 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.  
Select password type. Create a new password and confirm it.  
Click **Save** to complete the settings.



The screenshot shows a web interface for configuring password parameters. At the top, there is a header bar with the text "Configuring the Right and Password Parameters". Below this, the section is titled "Permission Password". There are three input fields: "Password Type" with a dropdown menu showing "Arming/disarming ...", "New Password", and "Password Confirm". A "Save" button is located at the bottom of the form.

Figure 3-10 Permission Password

---

#### Note

For indoor station, you can enter the old password and new password to change the arm/disarm password.

---

### Zone Alarm

#### Steps

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

**Configuring the Zone Parameters**

**Zone Alarm**

Area No. 1

Zone Type Smoke sensor

Alarm Type 24-hour Alarm

NO/NC Remain Unlocked

Entering Delay Seconds

Exiting Delay Seconds

**Linkage Configuration**

Relay 1

Relay 2

Save

**Figure 3-11 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.
- 

### IP Camera Information

You can add, delete and modify 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.

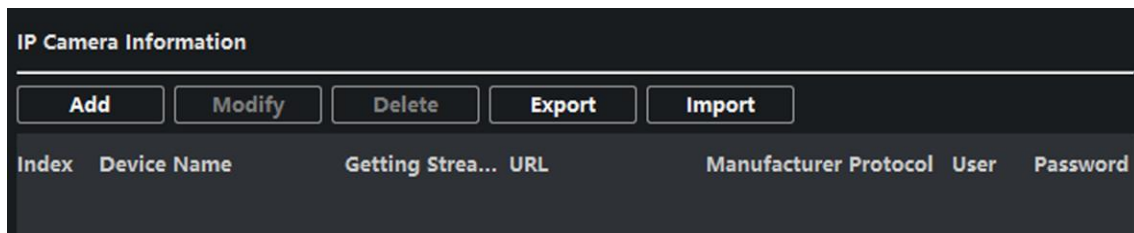


Figure 3-12 IP Camera Information

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.

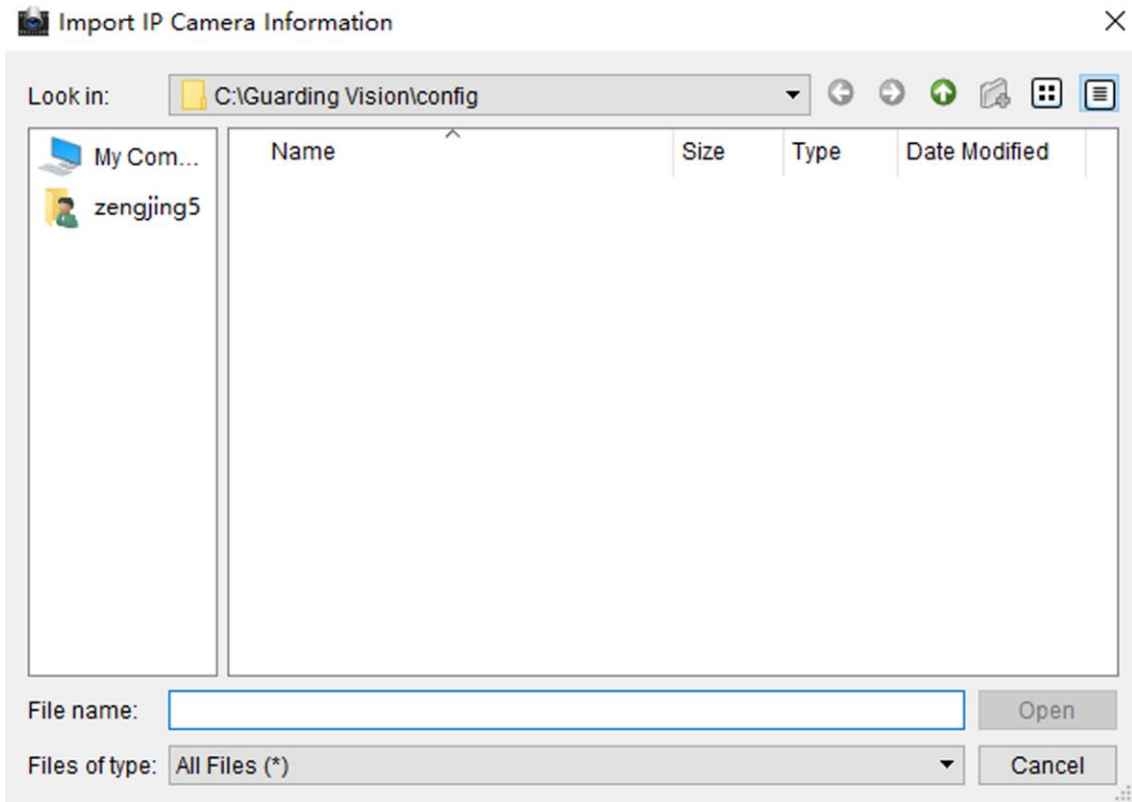
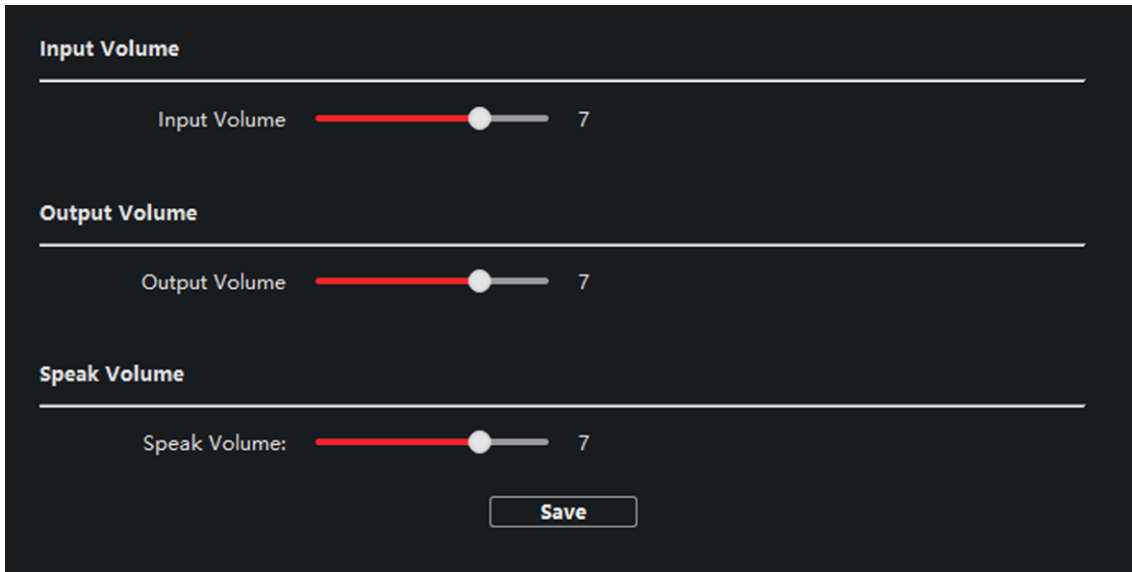


Figure 3-13 Import Added Device Information

### Volume Input and Output

#### Steps

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



**Figure 3-14 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.

Index	Name	Size	Type	Add	Delete
1				+	x
2				+	x
3				+	x
4				+	x

**Figure 3-15 Ring Import**

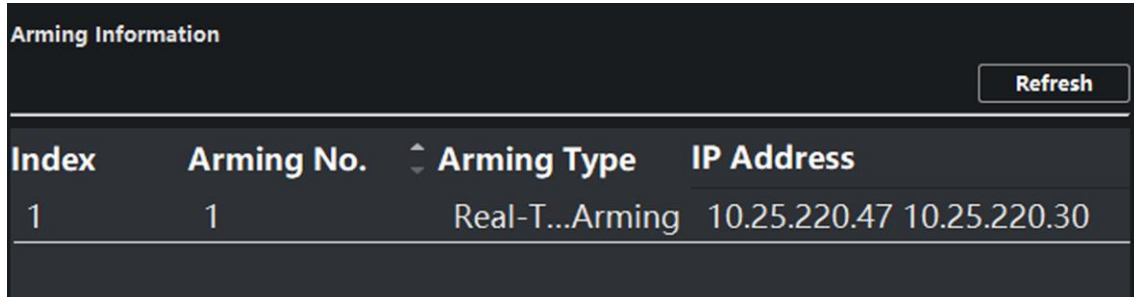
2. Click + to add the ring, and click x to delete the imported ring.

#### 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 information page and view the arming information.




Index	Arming No.	Arming Type	IP Address
1	1	Real-T...Arming	10.25.220.47 10.25.220.30

Figure 3-16 Arming Information

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

## Relay

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

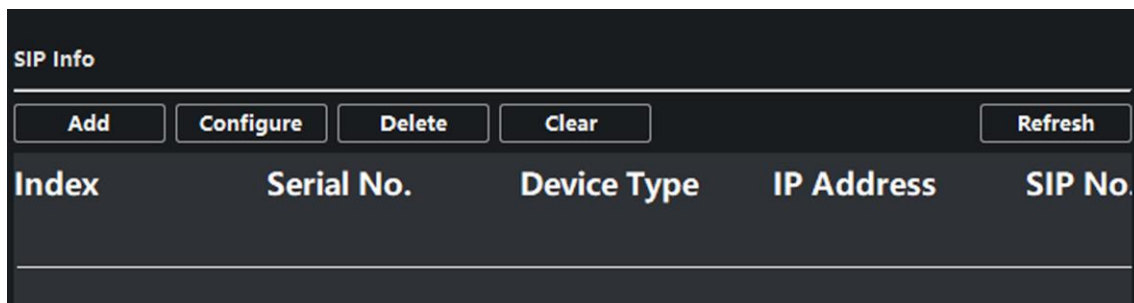
Select a relay and click "" and set the relay name and output delay time. Click **Save** to enable the settings.

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.



Index	Serial No.	Device Type	IP Address	SIP No.
-------	------------	-------------	------------	---------

Figure 3-17 Extension Settings

2. Click **Add**.

The image shows a dark-themed configuration window titled "Add". It contains several input fields and a dropdown menu. The "Device Type" dropdown is set to "Indoor Extension". The "SIP No." field contains the value "10000000000". At the bottom, there are "Save" and "Cancel" buttons.

Field	Value
Device Type	Indoor Extension
Serial No.	
IP Address	
Gateway	
Subnet Mask	
Password	
SIP No.	10000000000
No.	

Figure 3-18 Add SIP Info

3. Select **Device Type** as **Indoor Extension**.
4. Enter the required information.

**Serial No.**

## Video Intercom Indoor Station Configuration Guide

---

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.

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

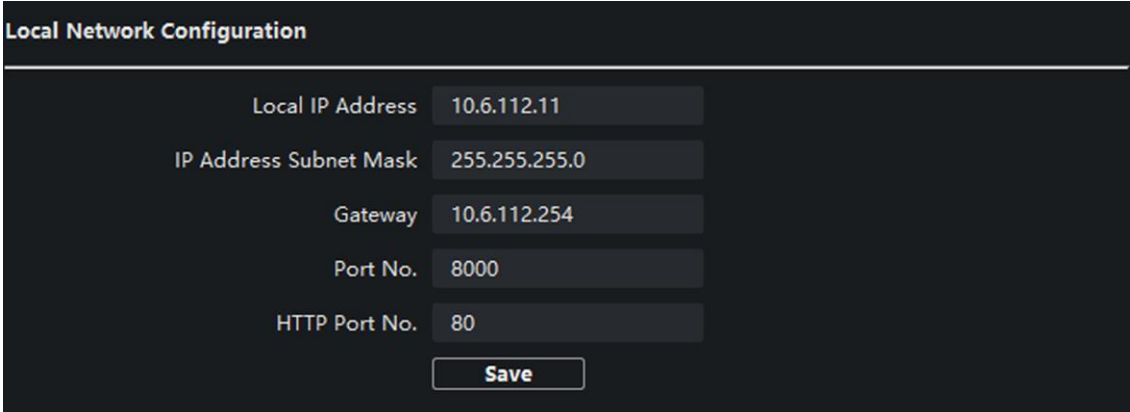
## **3.4.3 Network**

### **Local Network Configuration**

#### **Steps**

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





The screenshot shows a configuration window titled "Local Network Configuration". It contains five input fields and a "Save" button. The fields are: "Local IP Address" with the value "10.6.112.11", "IP Address Subnet Mask" with "255.255.255.0", "Gateway" with "10.6.112.254", "Port No." with "8000", and "HTTP Port No." with "80".

Field	Value
Local IP Address	10.6.112.11
IP Address Subnet Mask	255.255.255.0
Gateway	10.6.112.254
Port No.	8000
HTTP Port No.	80

Save

**Figure 3-19 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.

---

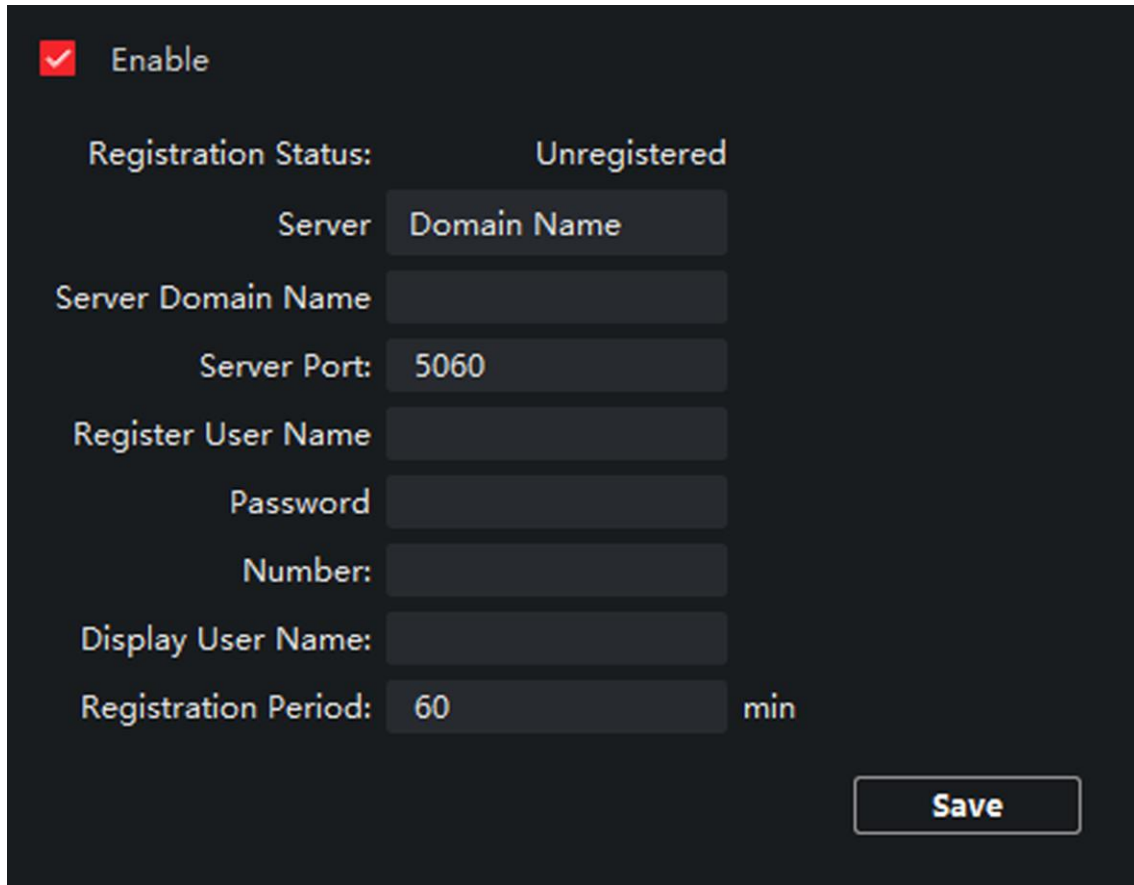
 **Note**

- 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.



The screenshot shows a configuration interface for SIP server settings. At the top left, there is a red checkmark icon followed by the text "Enable". Below this, the "Registration Status" is displayed as "Unregistered". The "Server" field contains the text "Domain Name". The "Server Domain Name" field is empty. The "Server Port" field contains the value "5060". The "Register User Name" field is empty. The "Password" field is empty. The "Number:" field is empty. The "Display User Name:" field is empty. The "Registration Period:" field contains the value "60" followed by the unit "min". A "Save" button is located at the bottom right of the configuration area.

Figure 3-20 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.

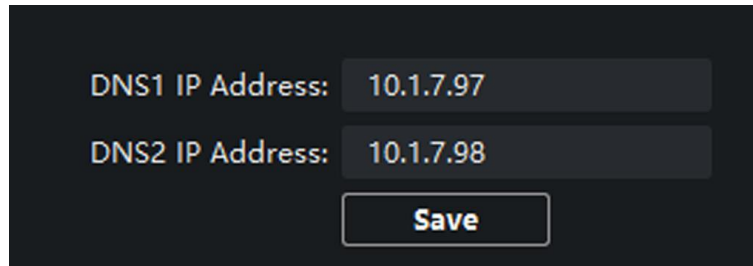
- 
4. Click **Save** to enable the settings.

### 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**.



DNS1 IP Address: 10.1.7.97  
DNS2 IP Address: 10.1.7.98  
Save

Figure 3-21 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.

Group Network Parameters			
Device Type	Indoor Station	SIP No.	10010110001
Community No.	1	Registration Password	
Building No.	1	Master Station IP Addr...	0.0.0.0
Unit No.	1	(Main) Door Station IP ...	192.0.0.65
Floor No.	1	SIP Server IP Address	0.0.0.0
Room No.	1	Doorphone IP Address	0.0.0.0
		Main Door Station Type	Main Door Station ...
		Security Control Panel I...	0.0.0.0
		Security Control Panel P...	0

Save

Figure 3-22 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.

---

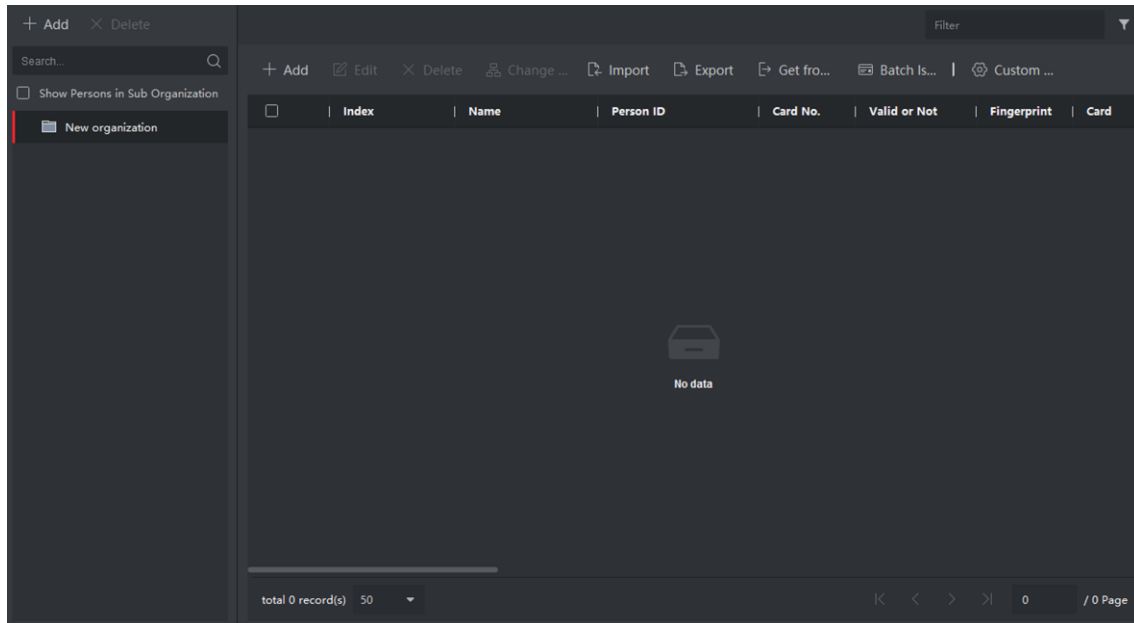
### Note

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

## 3.5 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 3-23 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.

### 3.5.1 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.
- 

## 3.5.2 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 method 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.

## 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
16 W	6 W		
DS-KAD704			CH4
			16 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  $10.1\text{ W} \leq 16\text{ W}$ , 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  $14.4\text{ W} \leq 16\text{ W}$ , 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  $42\ \Omega/100\text{ m}$ , 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 <sup>2</sup> )	Twisted Pair : 20 AWG (0.5 mm <sup>2</sup> )	Twisted Pair : 18AWG (0.8 mm <sup>2</sup> )	Twisted Pair : 16AWG (1 mm <sup>2</sup> )	Parallel lines (0.5 mm <sup>2</sup> to 0.8 mm <sup>2</sup> )
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-	Transmission	Transmission	Transmission	Transmission	Transmission

## Video Intercom Indoor Station Configuration Guide

Routing Path	Twisted Pair : 24 AWG (0.2 mm <sup>2</sup> )	Twisted Pair : 20 AWG (0.5 mm <sup>2</sup> )	Twisted Pair : 18AWG (0.8 mm <sup>2</sup> )	Twisted Pair : 16AWG (1 mm <sup>2</sup> )	Parallel lines (0.5 mm <sup>2</sup> to 0.8 mm <sup>2</sup> )
DS-KAD706	Distance ≤ 60 m	Distance ≤ 60 m	Distance ≤ 60 m	Distance ≤ 50 m	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 <sup>2</sup> )	Parallel lines: 20 AWG (0.5 mm <sup>2</sup> )	Parallel lines: 18 AWG (0.8 mm <sup>2</sup> )	Parallel lines: 16 AWG (1 mm <sup>2</sup> )
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.

## B. Communication Matrix and Device Command

### Communication Matrix

Scan the following QR code to get the device communication matrix.

Note that the matrix contains all communication ports of Hikvision access control and video intercom devices.



Figure B-1 QR Code of Communication Matrix

### Device Command

Scan the following QR code to get the device common serial port commands.

Note that the command list contains all commonly used serial ports commands for all Hikvision access control and video intercom devices.



Figure B-2 Device Command



See Far, Go Further