

# **Two-Wire 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 ( <a href="https://www.hikvision.com/">https://www.hikvision.com/</a>).

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

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

Symbol	Symbol Description	
<u> </u>	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>i</b> 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

- 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



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.

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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.

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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-KH6320Y-WTE2

for detailed information.

Scan the QR code to get the configuration guide 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.

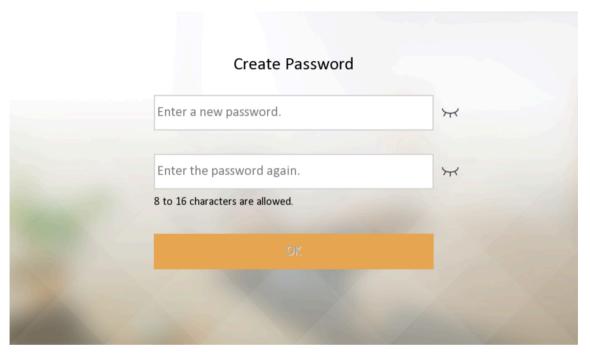


Figure 2-1 Activation Page

2. Create a password and confirm it.



You can tap my to enable or disable password reveal.

**3.** Choose the security questions and enter the answers. You can reset the activation/admin password via these questions if you forget your password.

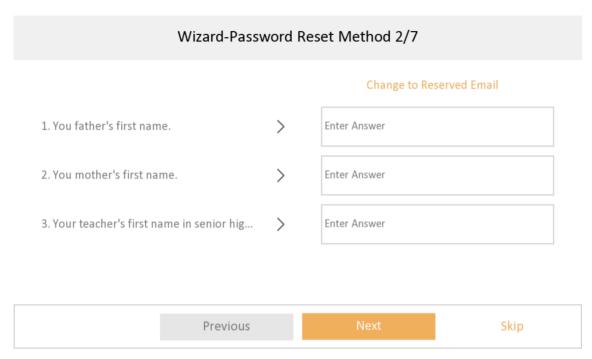


Figure 2-2 Security Question

**4. Optional:** Bind email address. You can reset the activation/admin password via the email if you forget your password.

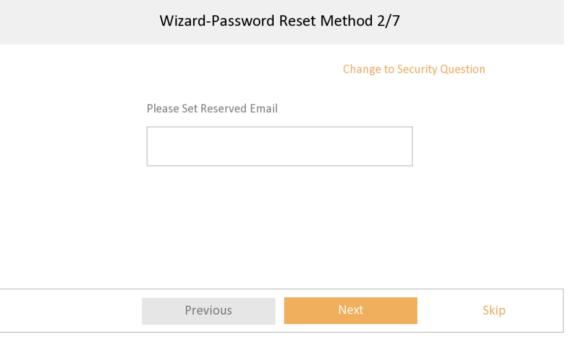


Figure 2-3 Reserved Email

1) Tap**Change to Reserved Email** to enter the configuration page.

- 2) Enter the email address.
- 5. Tap Next to save the settings.



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.

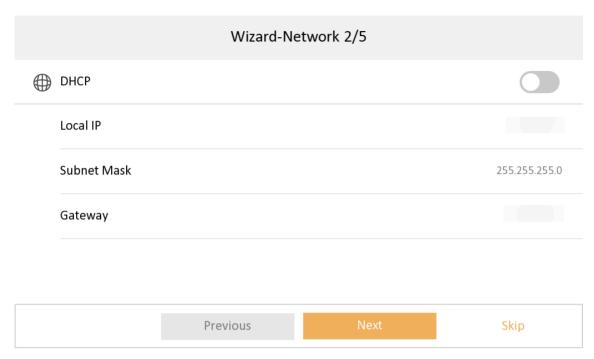
## **Steps**

1. Select Language and tap Next. Or tap Skip to skip language settings.



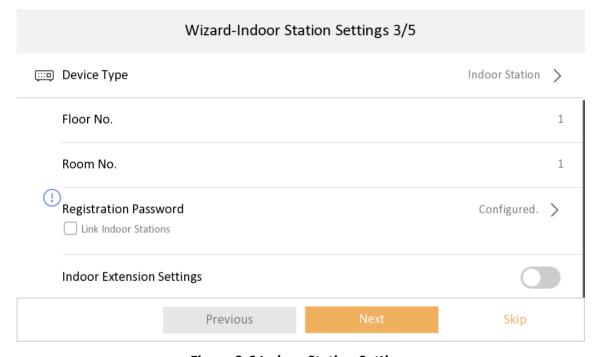
**Figure 2-4 Language Settings** 

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



**Figure 2-5 Network Parameters** 

3. Set indoor station parameters. Or tap Skip to skip the indoor station settings.



**Figure 2-6 Indoor Station Settings** 

1) Select **Device Type** as **Indoor Station**.

iNote

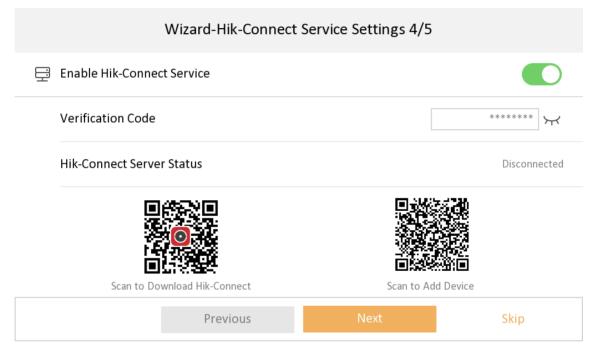
If you select device type as Indoor Extension, you should set the No., Room Name, and Registration Password of the device and skip the steps below.

- 2) Set the Floor No. and Room No.
- 3) Create Registration Password.

 $\bigcap_{\mathbf{i}}$ Note

Check the checkbox to link indoor station, the registration password will be set the same as activation password.

- 4) Optional: Slide to enable Indoor Extension Settings. Tap Link Indoor Station and search the indoor extensions to link.
- **4.** Configure the **Hik-Connect** service settings. Or tap **Skip** to skip the settings.



**Figure 2-7 Hik-Connect Service Settings** 

- 1) Slide to Enable Hik-Connect Service.
- 2) Create the verification code and view the status of the server.
- 3) Scan the left QR code on the screen to download client and scan the right QR code to add the device to the client.
- 4) Tap Next.
- **5.** Link related devices and tap **Finish**. 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.

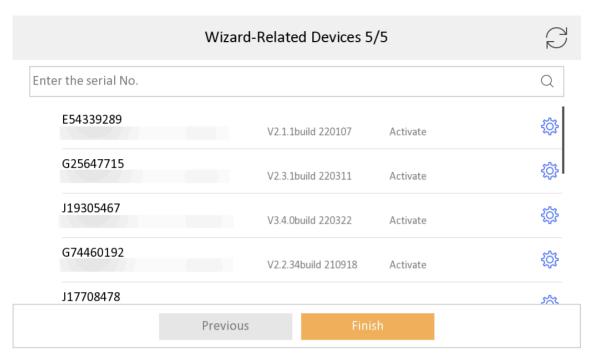


Figure 2-8 Related Device

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



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) Tap **OK** 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.

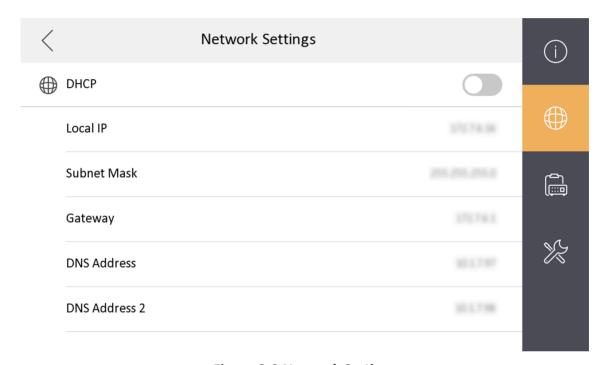
#### **Steps**



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**  $\rightarrow$  **E**  $\rightarrow$  **Configuration**, and enter admin (activation) password.
- **2.** Tap onter the network settings page.



**Figure 2-9 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, platform, 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**



The doorphone does not support adding with the standard SIP protocol.

- **1.** Tap **Settings**  $\rightarrow$  **E**  $\rightarrow$  **Configuration**, and enter admin (activation) password.
- 2. Tap to enter the device management page.

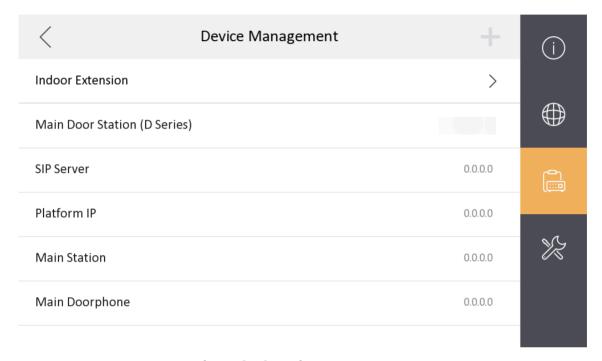


Figure 2-10 Device Management

- 3. Tap Indoor Extension and select a connect indoor extension.
- 4. Tap Main Door Station (D Series) to pop up the device information dialog.

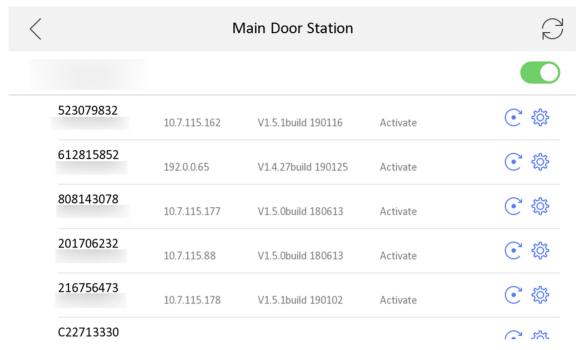


Figure 2-11 Device Information

- 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 and edit the network parameters.
- **6.** Tap **SIP Server**, **Platform IP**. **Main Station** and **Main Doorphone** to edit the IP address to connect.

#### 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**  $\rightarrow$  **Example 2 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 Email 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 VOIP account.

### **Steps**

- **1.** Tap **Settings**  $\rightarrow$  **Example 2 Configuration**, and enter admin (activation) password.
- 2. Tap SIP Settings in Local Information Page.

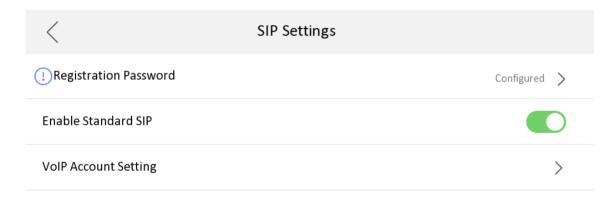
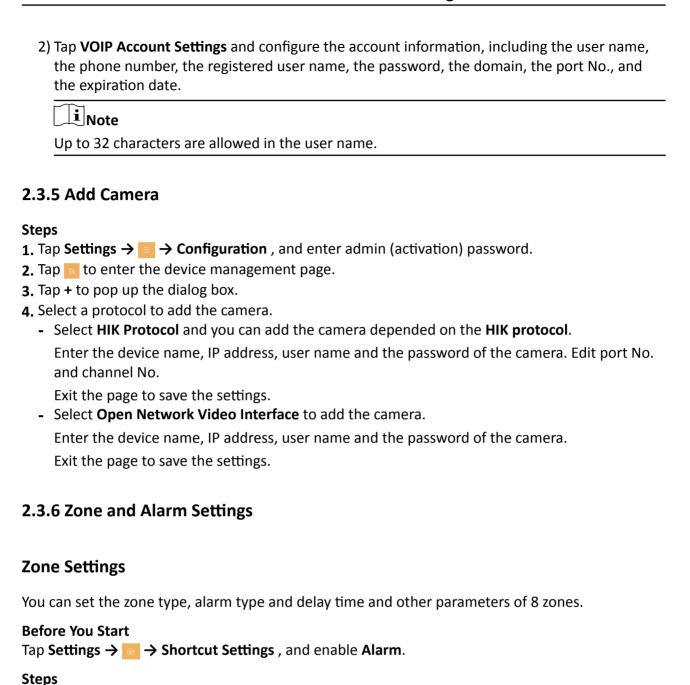


Figure 2-12 SIP Settings

- 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 standard SIP.
  - 1) Slide to Enable Standard SIP.



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

**1.** Tap **Settings**  $\rightarrow$   $\bigcirc$  **Zone Settings** to enter the zone settings page.

i Note

first.

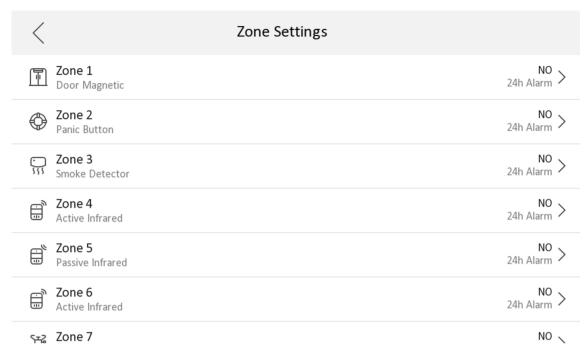


Figure 2-13 Zone Settings

- 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.



- 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 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**

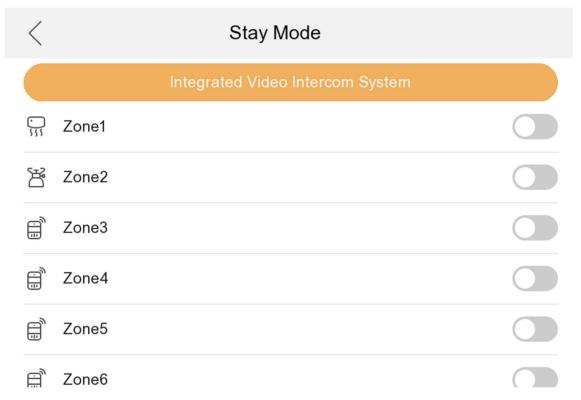
Tap **Settings** → Shortcut Settings to enable **Alarm**.

#### **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 2-14 Arming Mode Settings** 

3. Arm the selected zone.



- 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. Refers to **Email Address Settings** .

#### **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.



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**  $\rightarrow \bigcirc$  **Password** to enter the settings page.

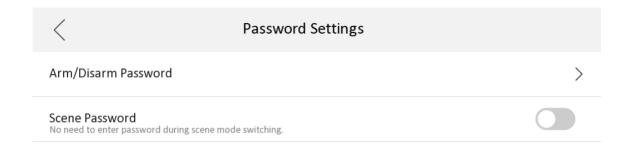


Figure 2-15 Arm/Disarm Password Settings

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

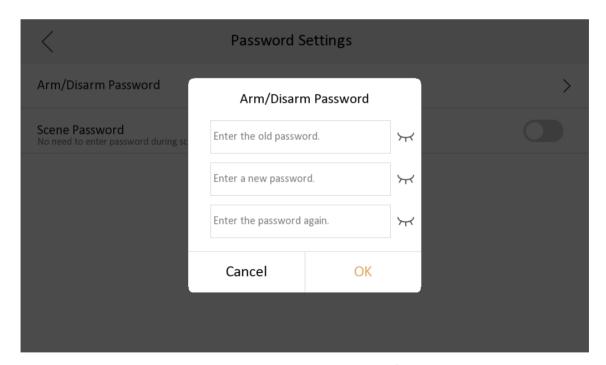


Figure 2-16 Create Password

**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**  $\rightarrow$  **E**  $\rightarrow$  **Configuration**, and enter admin (activation) password.
- 2. Tap Password.

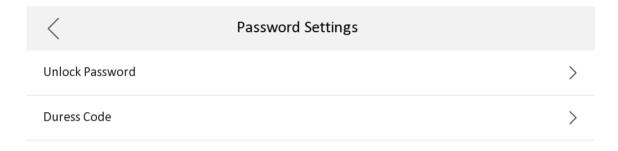


Figure 2-17 Unlock and Duress Code Settings Page

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.



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**  $\rightarrow$   $\bigcirc$  **Time and Date** to enter the time synchronization page.

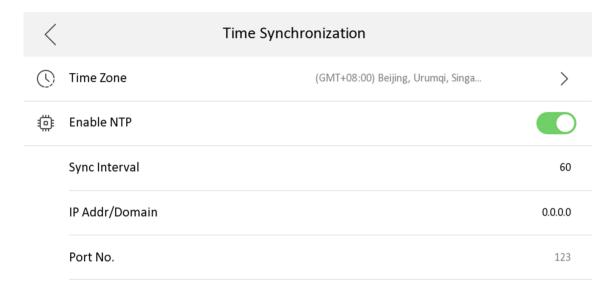


Figure 2-18 Time Synchronization

- 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.



- 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**  $\rightarrow$  **s** to enter the call settings page.

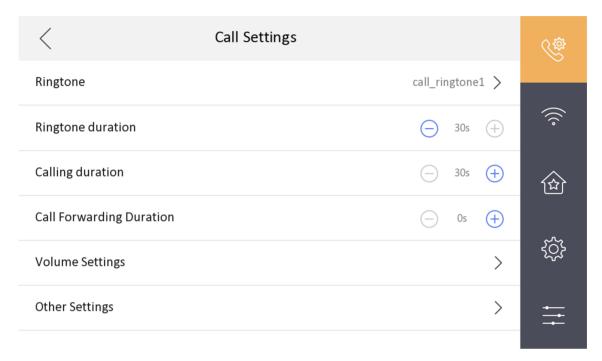


Figure 2-19 Call Settings

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.

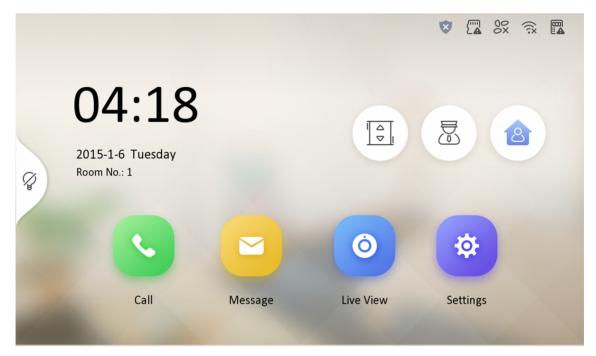


Figure 2-20 Main Page



Before enabling **Auto-answer**, the function of **Leave Message** needs to be enabled. Tap **Settings** → o 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.

# Two-Wire Intercom Indoor Station Configuration Guide



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**  $\rightarrow$  **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.

## 2.7 Via the mobile client

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

#### 2.7.1 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.

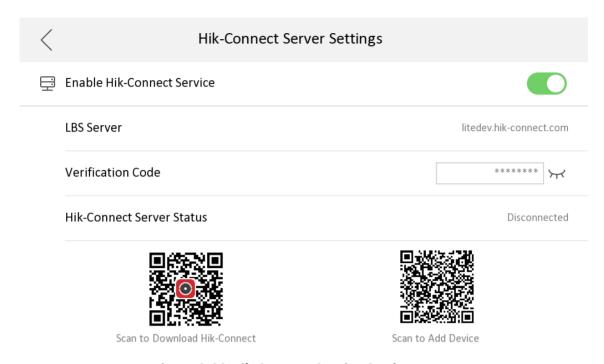


Figure 2-22 Hik-Connect Service Settings Page

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



- Verification code is used to add the device to mobile client.
- You can tap \( \sqrt{to enable or disable verification code reveal.} \)
- 6. View the service status on the page.
- 7. Optional: Scan the QR code on the screen.



- 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.

#### 2.7.2 Unlink the Account

Remove the account from the mobile client.

### **Steps**

- **1.** Tap **Settings**  $\rightarrow$   $\longrightarrow$  **Configuration**, and enter the admin (activation) password.
- **2.** Tap to enter the system maintenance page.

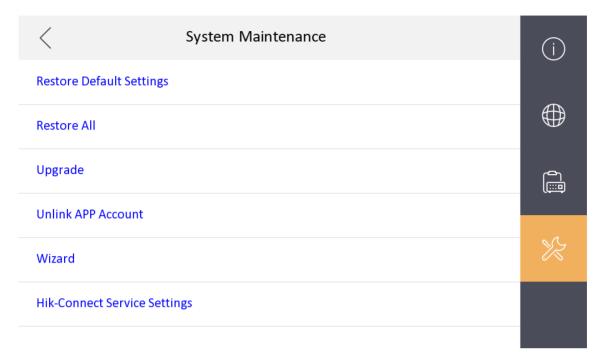


Figure 2-23 System Maintenance

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

# 2.8 Email Address Settings

If you forgot the admin password, you can change your password via Email.

#### **Steps**

- **1.** Tap **Settings**  $\rightarrow$   $\longrightarrow$  **Configuration**, and enter the admin (activation) password.
- 2. Tap Email Address to pop up the settings dialog.
- 3. Enter or edit the address according to your needs.

# 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**  $\rightarrow$  to enter the general settings page.

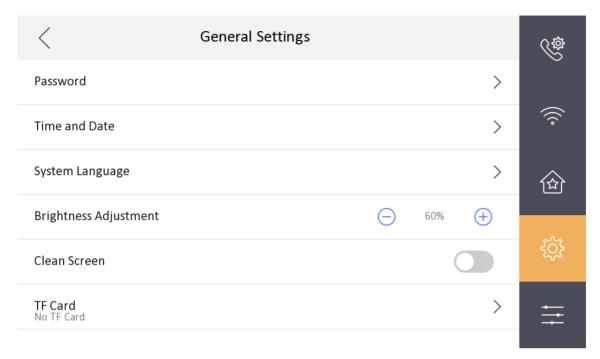


Figure 2-24 General Settings Page

#### **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.

 $\bigcap_{\mathbf{i}}$ 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.

**i** 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.

 $\square_{\mathsf{Note}}$ 

- 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**  $\rightarrow$   $\longrightarrow$  **Configuration**, and enter the admin (activation) password.

Tap to enter the system maintenance page.

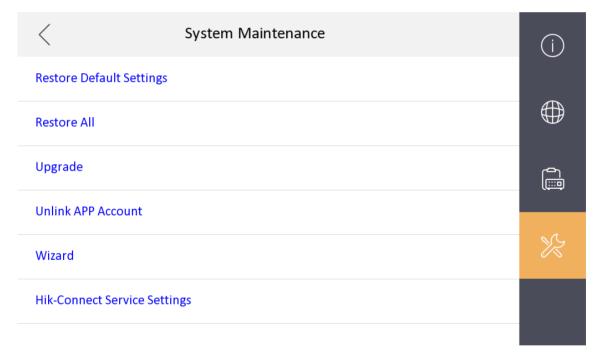


Figure 2-25 System Maintenance

#### **Upgrade**

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

## Restore

#### **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 the details.

#### **Preference**

Tap **Settings**  $\rightarrow$  **o** 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**

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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**



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 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 → Soutput Settings .

# Two-Wire Intercom Indoor Station Configuration Guide



- 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.



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.



- 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.

# 2.11 Device Information

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

#### **Steps**

- 1. Tap **Settings**  $\rightarrow$  **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 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.



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**



- 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.

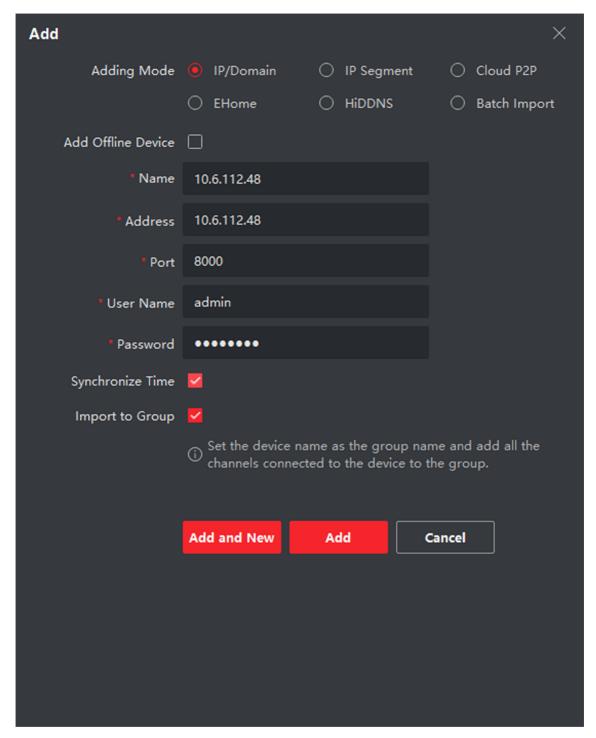


Figure 3-1 Add the Device

**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.



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.



- 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  $\blacksquare$ , and then you can modify the network information of the selected device.



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 of 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

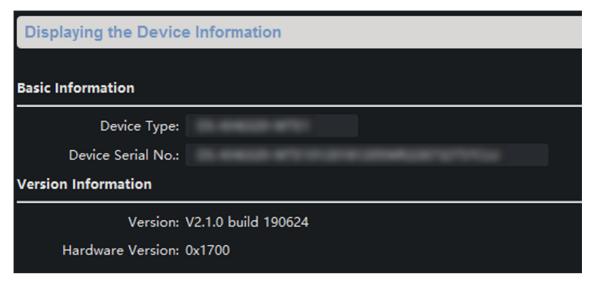
In the device list area, select a device and click on to enter the remote configuration page.

# **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.



**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.

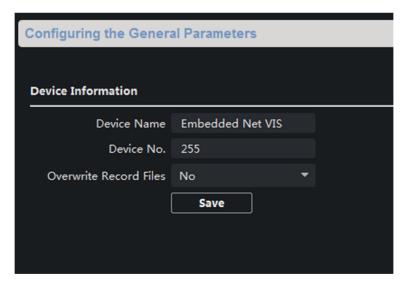


Figure 3-3 General

#### **Time**

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

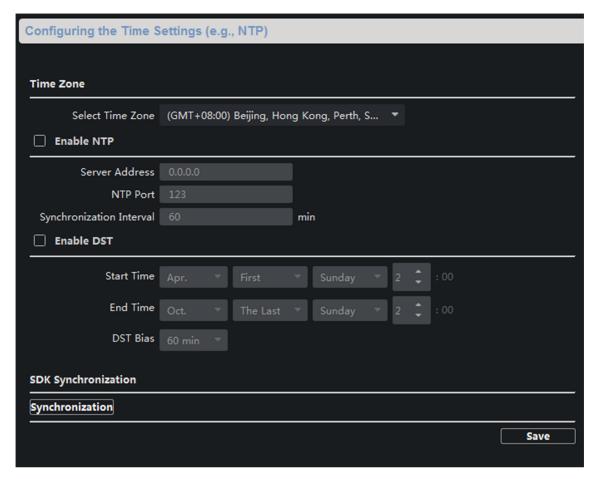


Figure 3-4 Time Settings Page

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.



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.

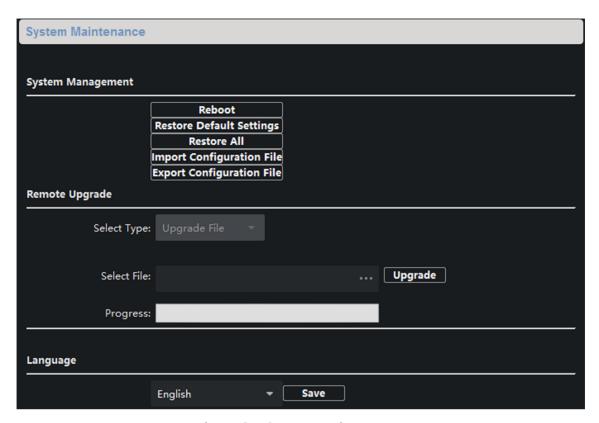


Figure 3-5 System Maintenance

- 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.



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.

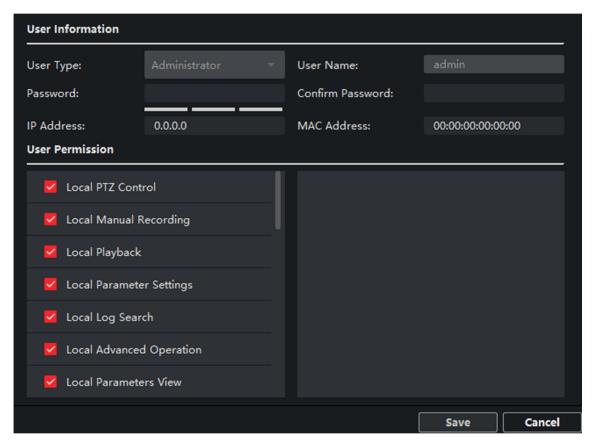


Figure 3-6 User Page

# **i**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.

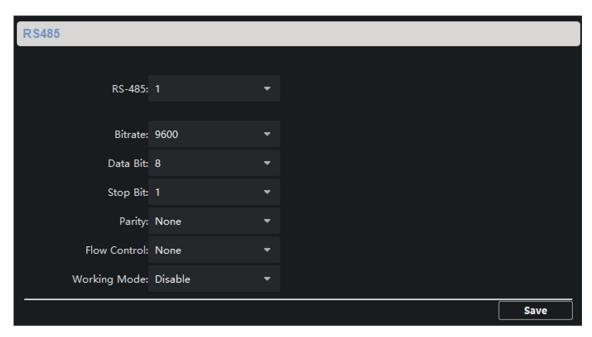


Figure 3-7 RS-485 Settings



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.

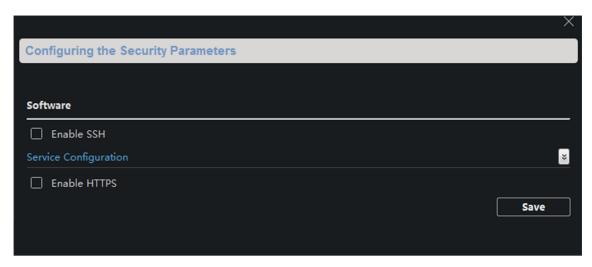


Figure 3-8 Security

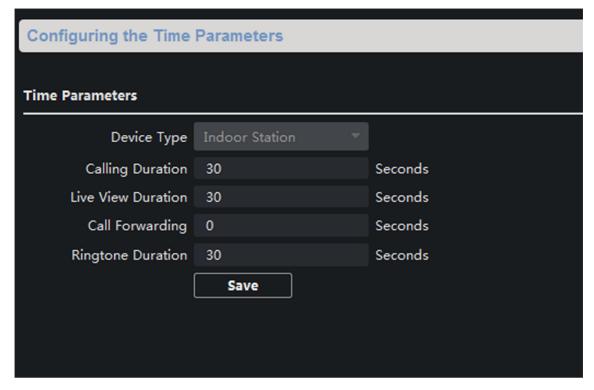
#### 3.4.2 Video Intercom

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.



**Figure 3-9 Time Parameters** 

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



- 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.

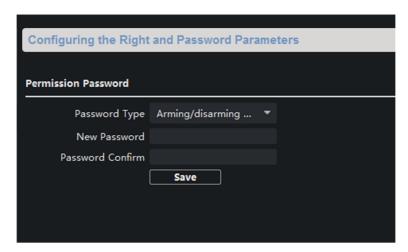


Figure 3-10 Permission Password



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.

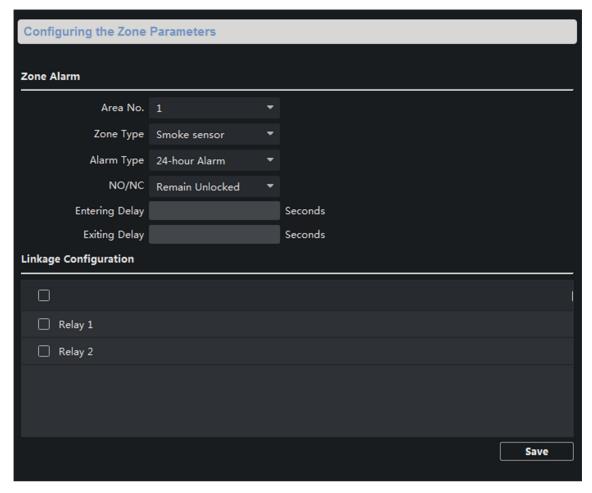


Figure 3-11 Zone Alarm

- 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.



- 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.

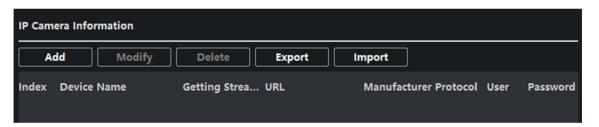


Figure 3-12 IP Camera Information

- 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**.

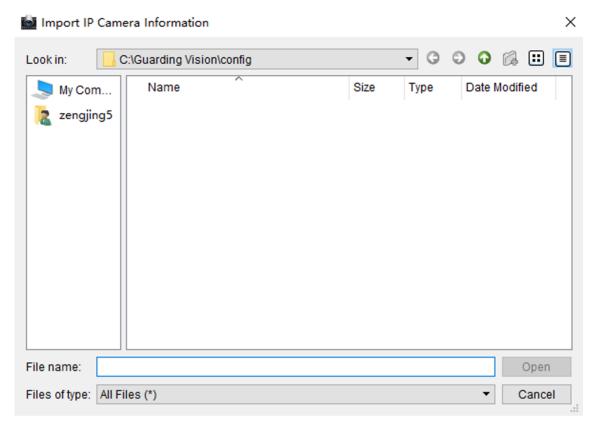


Indoor extension does not support this function.

# **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.

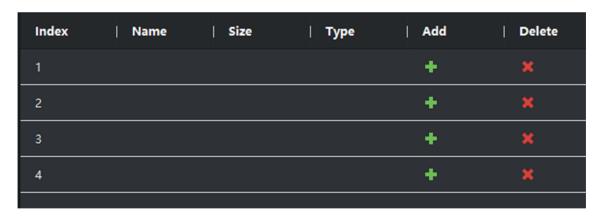


Figure 3-15 Ring Import

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

**i**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.

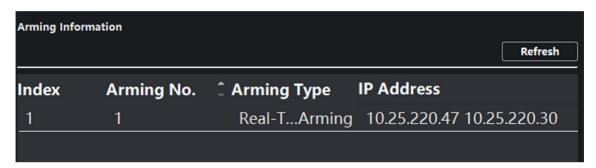


Figure 3-16 Arming Information

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

#### Relay

Some indoor station devices support this function.

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

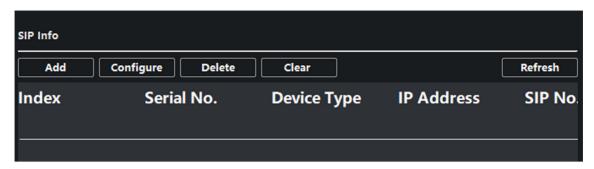
Select a relay and click " [ " and set the relay name and output delay time. Click **Save** to enable the settings.

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 3-17 Extension Settings** 

# 2. Click Add.

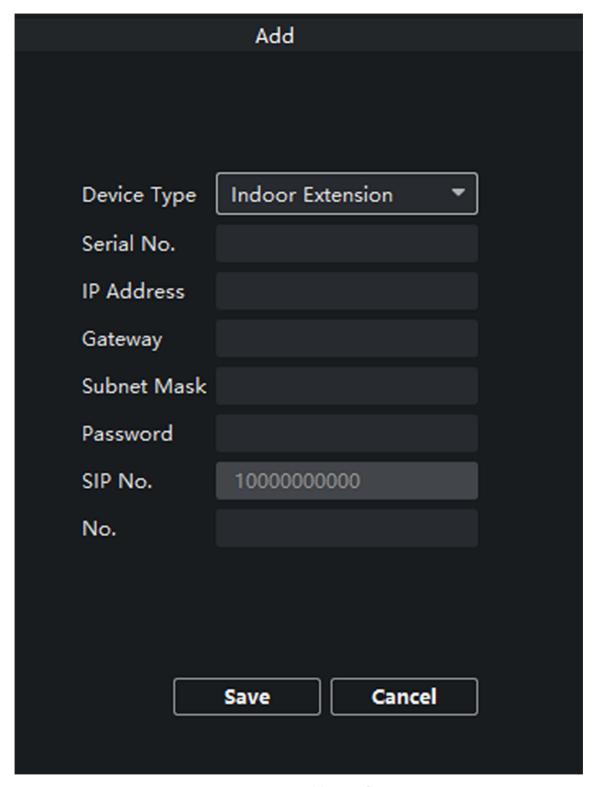


Figure 3-18 Add SIP Info

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.

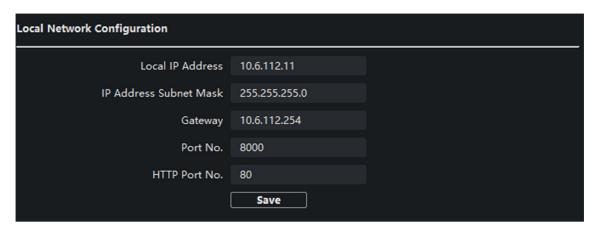
Click Delete Delete the SIP Number.
Click Clear Clear all SIP numbers.
Click Refresh Refresh SIP Information.

3.4.3 Network

# **Local Network Configuration**

#### Stens

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



**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.

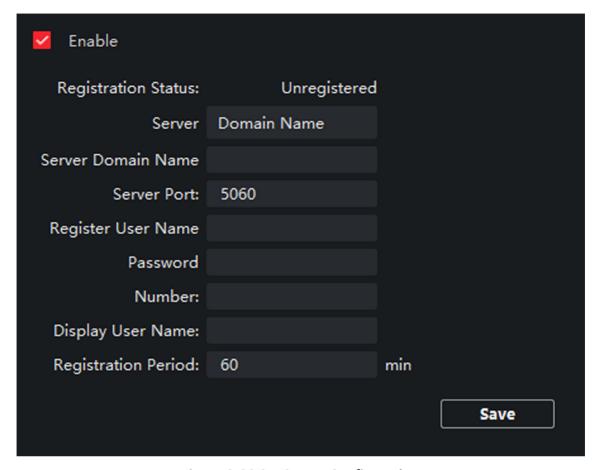


- The default port No. is 8000.
- After editing the local network parameters of device, you should add the devices to the device list again.

# **SIP Server Configuration**

#### Steps

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



**Figure 3-20 SIP Server Configuration** 

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



- 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.

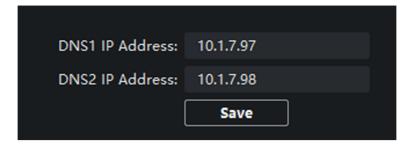


Figure 3-21 DNS Settings

# **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**

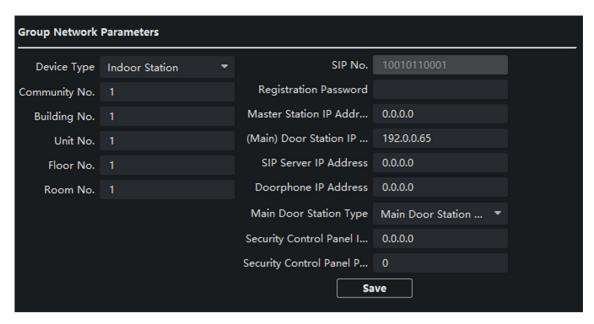
- 1. Click Hik-Connect to enter the configuring the settings page.
- 2. Enable Enable Hik-Connect.



- 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 3-22 Group Network Settings** 

# **Device No. Settings**

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



- 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.



- 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.

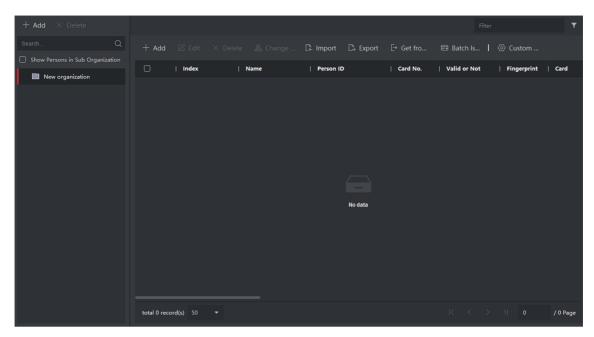


Figure 3-23 Personal Management Application

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

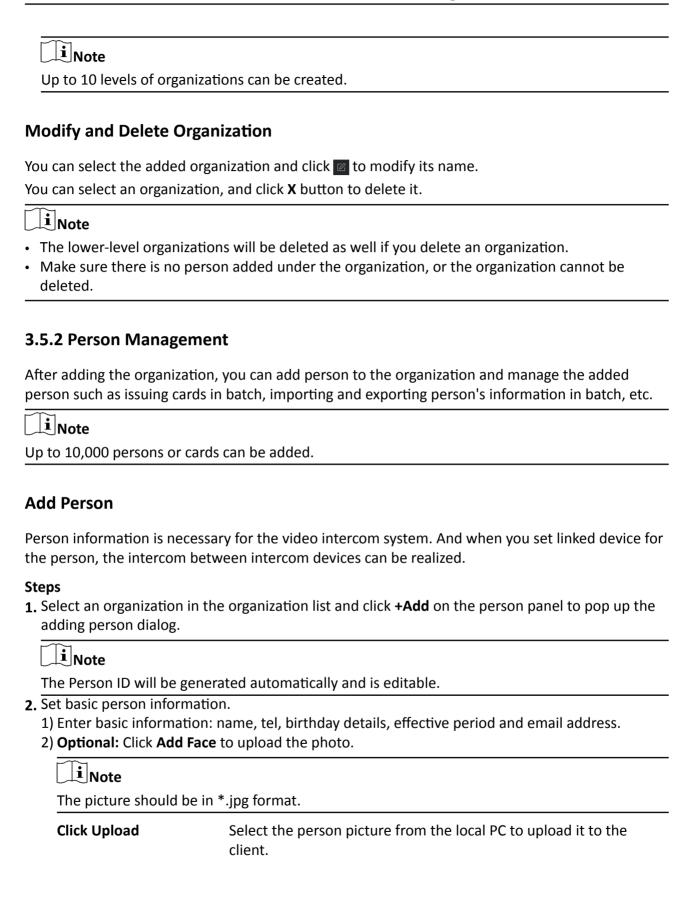
On the main page of the Client Software, click **Person** to enter the configuration page.

# **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.

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**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.

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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.



- 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.



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	СН6	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  $\leq$  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  $\Omega/100$  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 <sup>2</sup> )	Twisted Pair : 20 AWG (0.5 mm <sup>2</sup> )	Twisted Pair : 18AWG (0.8 mm²)	Twisted Pair : 16AWG (1 mm²)	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- 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	Parallel lines: 20	Parallel lines: 18	Parallel lines: 16
	AWG (0.2 mm <sup>2</sup> )	AWG (0.5 mm <sup>2</sup> )	AWG (0.8 mm <sup>2</sup> )	AWG (1 mm²)
DS-KAD706- DS- KH6320-WTE2	Transmission Distance ≤ 50 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.

# Appendix 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** 

