



# 2-Wire HD Indoor Station

User Manual

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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

### 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.

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.

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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.

If a power adapter is provided in the device package, use the provided adapter only. If no power adapter is provided, ensure the power adapter or other power supply complies with Limited Power Source. Refer to the product label for the power supply output parameters.

## About this Manual

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

Product	Model
Network Indoor Station	DS-KH7300EY-WTPE2

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# Chapter 1 Topology

The 2-Wire HD devices can be used in different situations.

- Multi-Family Topology

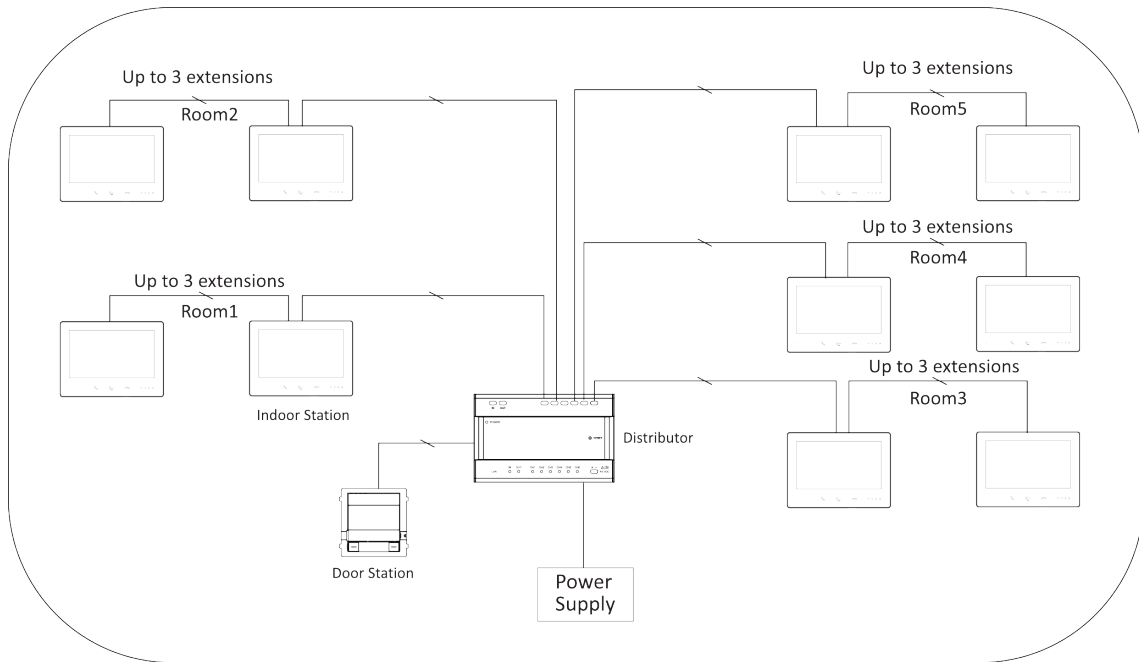


Figure 1-1 Multi-Family Topology

## Note

Each channel of the distributor can be connected to 1 door station / 1 main and 3 sub indoor stations / 8 main indoor stations.

- Single Floor Topology

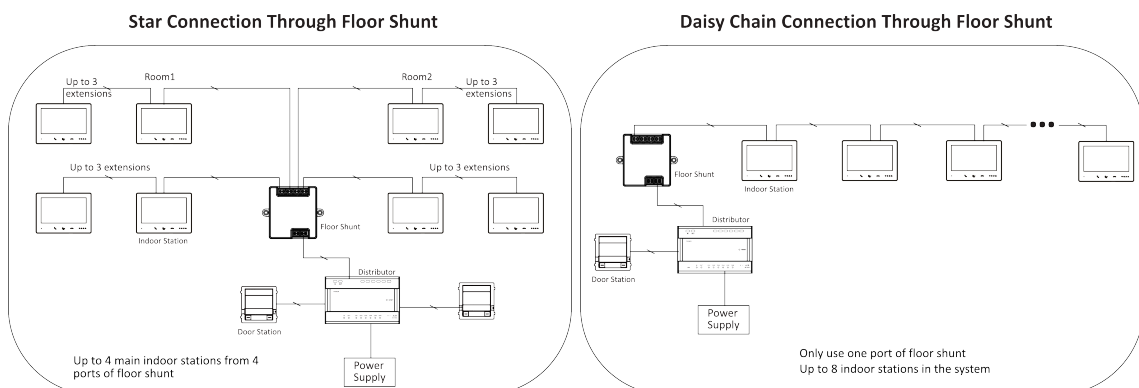
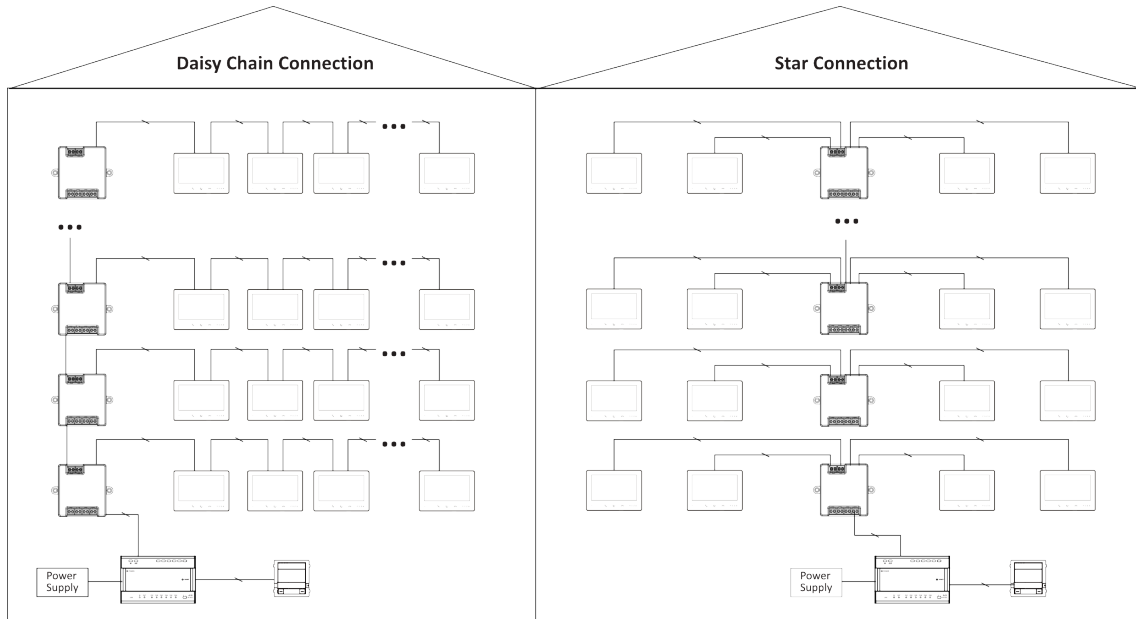


Figure 1-2 Single Floor Topology

- Single Building Topology

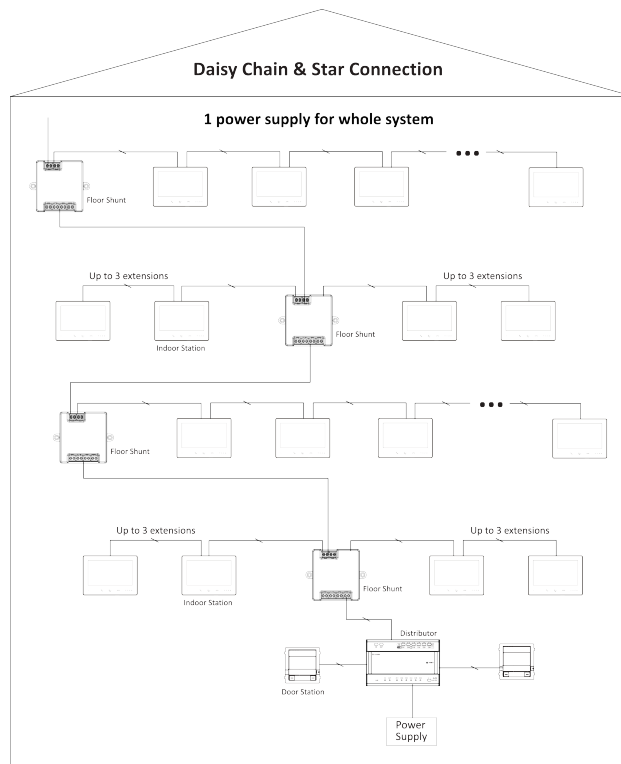


**Figure 1-3 Single Building Topology**

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**Note**

- Up to 22 indoor stations with Wi-Fi or 64 without Wi-Fi can be used in one building. (The cable needs to be better than AWG20)
  - Up to 16 floor shunts can be cascaded.
- 
- Single Building (Combined)



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**Note**

Due to system power consumption limitations, device needs to be powered separately after 64 or 22 indoor stations are exceeded.

- System Extension in one building

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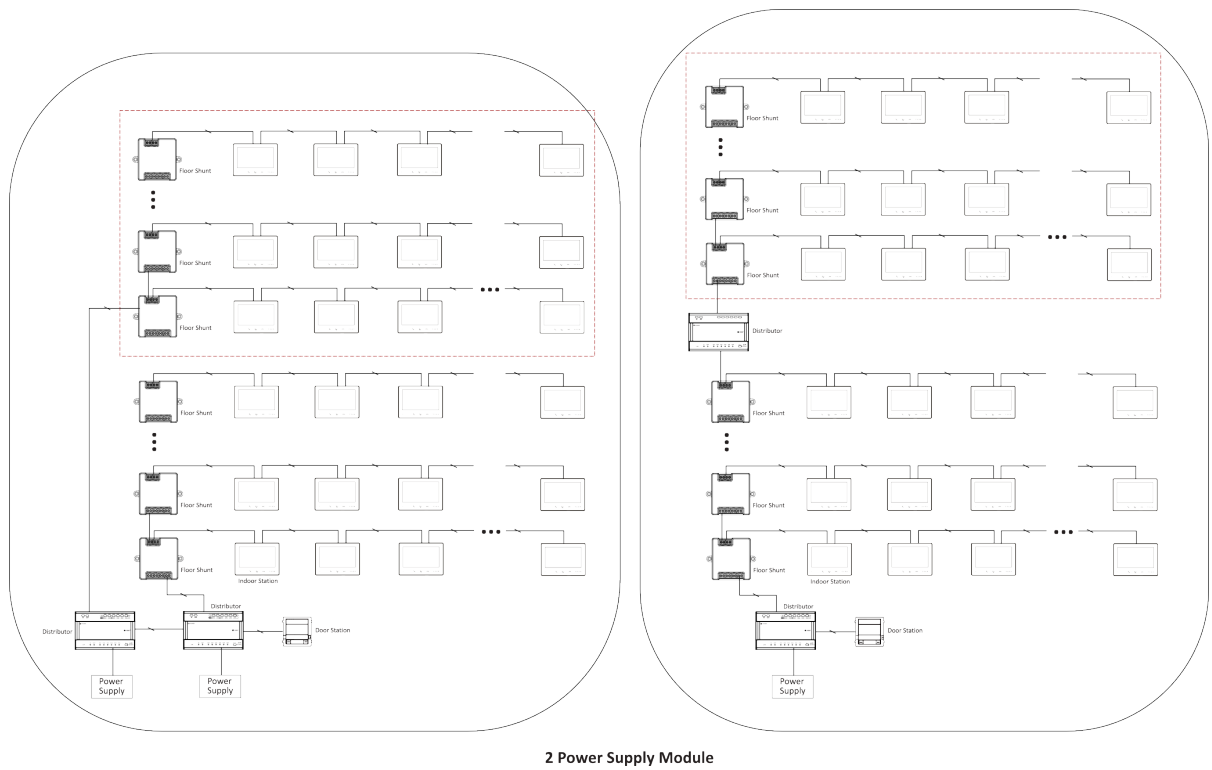
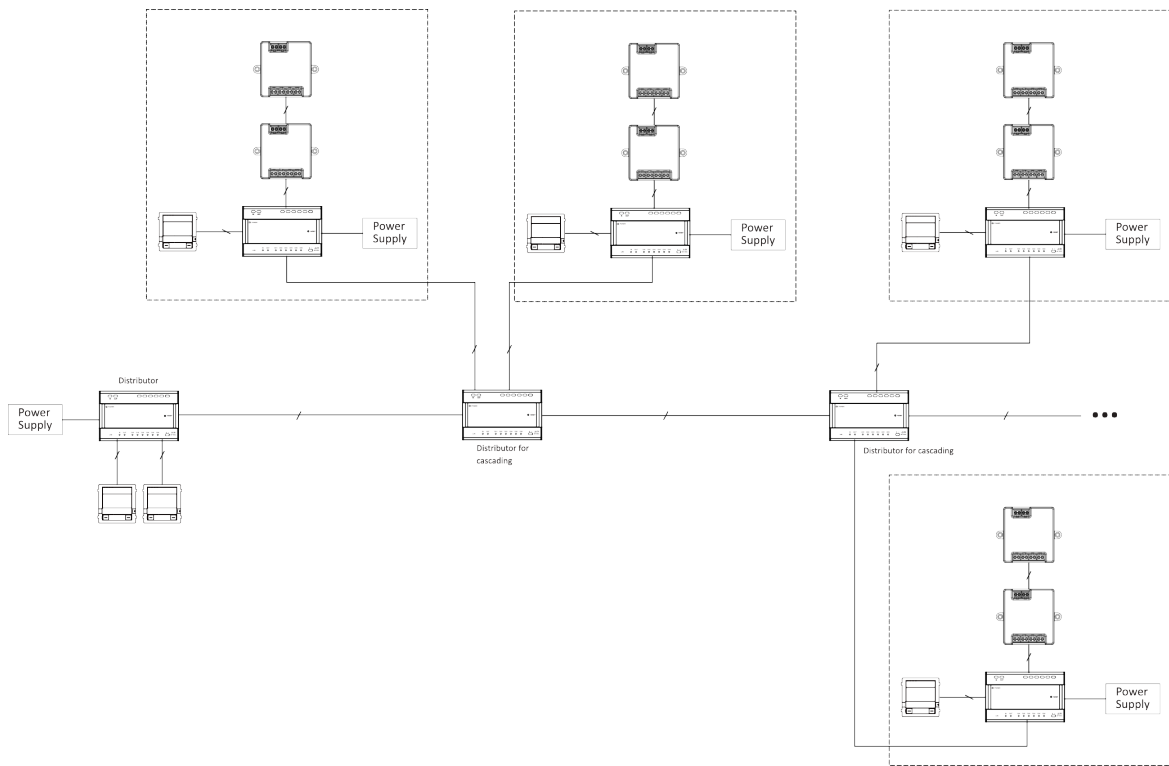


Figure 1-5 System Extension in one building

**Note**

Up to 99 indoor stations without Wi-Fi, 44 with Wi-Fi.

- Multiple Building Topology

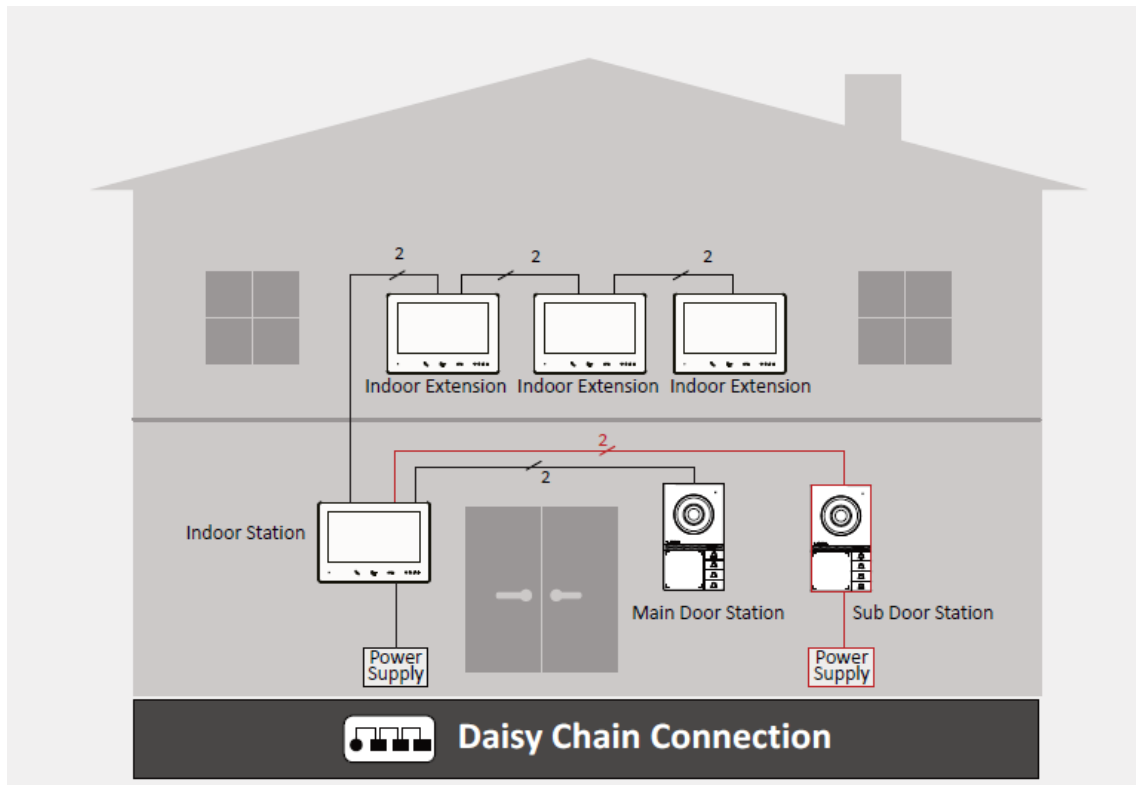


**Figure 1-6 Multiple Building Topology**

**Note**

- Up to 16 buildings can be connected in the system via the distributor for cascading.
- Up to 10 outer door stations can be connected.
- Up to 16 sub door stations can be connected.

• Villa Topology



**Figure 1-7 Daisy Chain Connection for DS-KIS707/708EY Kit**

---

**Note**

The indoor station's power supply should be 24V. The door station's power adaptor is 12V. Please use the power adaptor provided in the package to power the device.

The name tag and call button are replaceable, you can replace them according to actual need. Here takes door station with 4 call buttons as an example.

The system supports maximum 2 door stations and 4 indoor stations. The built-in power supply supports 4 indoor stations and 1 door station. Additional door station requires separate power supply.

When there is only 1 door station, leave the sub door station which is marked red and connect the rest.

---

## Chapter 2 Cable and Transmission Distance

Cable and transmission distance between devices should follow rules below.

**Table 2-1 Cable and Transmission Distance**

Cable Type	DS-KAD7060E Y to Door Station	DS-KAD7060E Y to DS-KAD7061E Y	DS-KAD7061E Y to DS-KAD7061E Y	DS-KAD7061E Y to Indoor Station	Indoor Station to Indoor Station	DS-KAD7060 to DS-KAD7060-S	Indoor Station to Door Station
UTP 5 0.2 mm <sub>2</sub> (Cat. 5) AWG24	60 m	60 m	60 m	60 m	100 m	60 m	140 m
0.28 mm <sub>2</sub> (TP) AWG23	60 m	40 m	40 m	40 m	80 m	40 m	160 m
0.5 mm <sub>2</sub> (Parallel) AWG20	60 m	60 m	60 m	60 m	100 m	60 m	180 m
1 mm <sub>2</sub> (Parallel) AWG17	60 m	60 m	60 m	60 m	100 m	60 m	260 m
1 mm <sub>2</sub> (TP) AWG17	60 m	40 m	40 m	40 m	80 m	40 m	260 m
1.5 mm <sub>2</sub> (Parallel) AWG15	60 m	40 m	60 m	60 m	100 m	60 m	260 m

**Table 2-2 Cable and Transmission Distance for DS-KIS707/708EY Kit**

Cable Type (Parallel/TP)	Indoor Station to Indoor Station (Max.)	Indoor Station to Door Station (Max.)
AWG24	4 m	60 m
AWG20	10 m	60 m
AWG16	20 m	120 m

## Chapter 3 Wiring Description

### 3.1 General Wiring

For detailed wiring of the kit, you can check the Quick Start Guide or refer to the picture below.

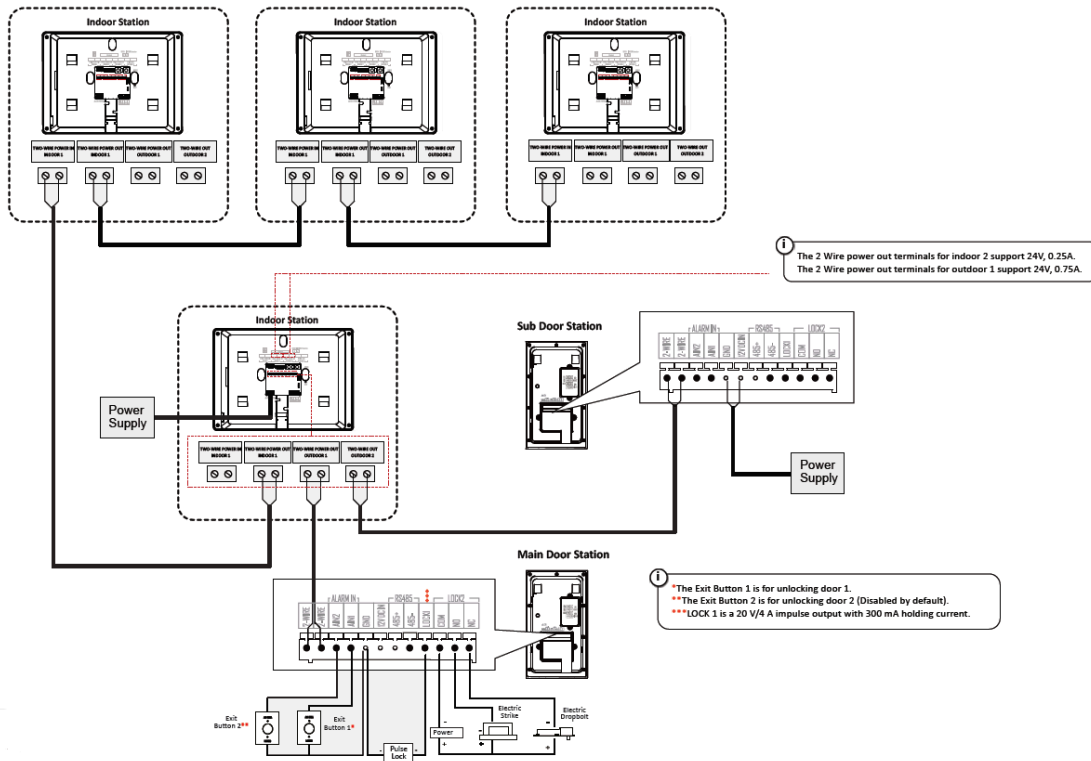


Figure 3-1 Daisy Chain Connection

## Chapter 4 Typical Application and Flow

### 1. Device Deployment: Basic Deployment



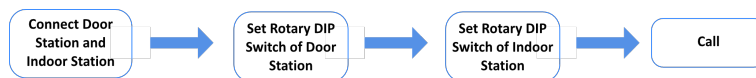
**Figure 4-1 Basic Deployment**

Advanced Deployment: Set DIP Switch→Installation→Power on the device→Synchronization



**Figure 4-2 Advanced Deployment**

### 2. Call



**Figure 4-3 Advanced Deployment**

## Chapter 5 Set Device Rotary DIP Switch

After door stations have been connected to indoor stations, you can set rotary DIP switch of these devices.

### DIP Switch of Door Station

Use the rotary switch to set the building No., door station No., sub door station, outer door station No. and door open duration. The Tens column refers to the number in Tens, and the Units column refers to the number in Units. On each rotary DIP switch, 0 to 9 refers to No. 0 to 9. In total, you can use 1 to 99 to number the building. If the door station is main door station, the **Door Station No.** should be set as 0; If it is sub door station, set **Door Station No.** as 1~16; If it is outer door station, set **Door Station No.** as 90~99. Use the screwdriver to adjust the number. The arrow indicates the number.

Building No. (1~99)

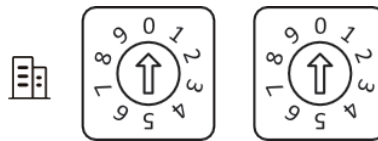


Figure 5-1 Building No.

Door Station No.

Main Door Station: 0

Sub Door Station: 1~16

Outer Door Station : 90~99

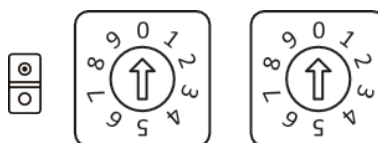


Figure 5-2 DIP Switch of Door Station No.

Door Open Duration

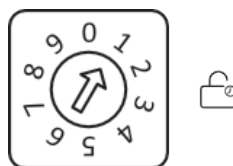


Figure 5-3 DIP Switch of Door Open Duration

**Table 5-1 Door Open Duration**

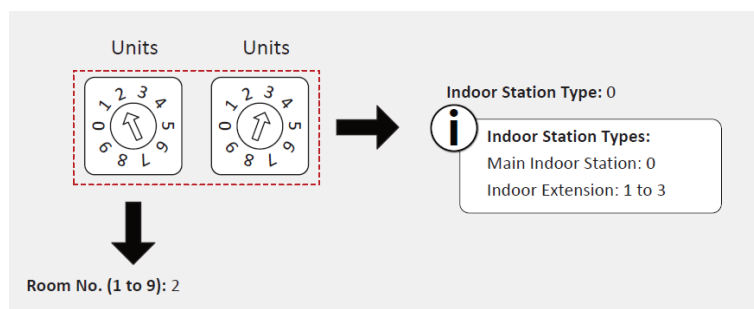
Rotary Switch	Open Duration (s)	Lock Type
0	2	DC Pulse (Lock 1)
1	5	DC Pulse (Lock 1)
2	10	DC Pulse (Lock 1)
3	2	Relay (Lock 2)
4	5	Relay (Lock 2)
5	10	Relay (Lock 2)
6	2	Lock 1 + Lock 2
7	5	Lock 1 + Lock 2
8	10	Lock 1 + Lock 2
9	DC Pulse (Lock 1)+Mechanical Doorbell(Lock 2), duration set on the web.	DC Pulse (Lock 1)+Mechanical Doorbell(Lock 2), duration set on the web.

**Note**

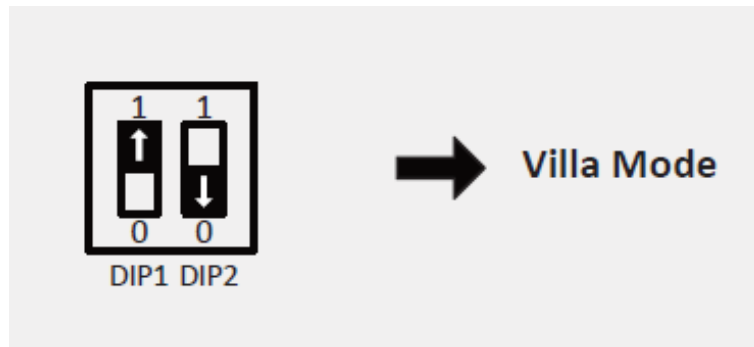
- It is recommended to stick the supplied number remark on the back of the device to indicate the device's No.

### DIP Switch of Indoor Station

Use the rotary DIP switch to set the indoor extension No., the building No., and the room No. The Units column refers to the number in Units. On each rotary DIP switch, 0 to 9 refers to No. 0 to 9. In total, you can use 0 to number the main indoor station No., 1 to 3 to number the indoor extension No.. Use the screwdriver to adjust the number. The arrow indicates the number. An example is shown below.



**Figure 5-4 Example: DIP Switch of Indoor Station**



**Figure 5-5 Villa Mode**

Villa Mode: The device can be powered by separate power supply. Under the villa mode, more than one device can be lightened up; when the extension is called, it can be lightened up and intercom via videos.

---

**Note**

- DIP 1 and DIP 2 are for mode settings.
  - The device is on debugging mode when the extension No. is 9. You can operate the indoor station on debugging mode without connecting to the door station.
-

## Chapter 6 Menu

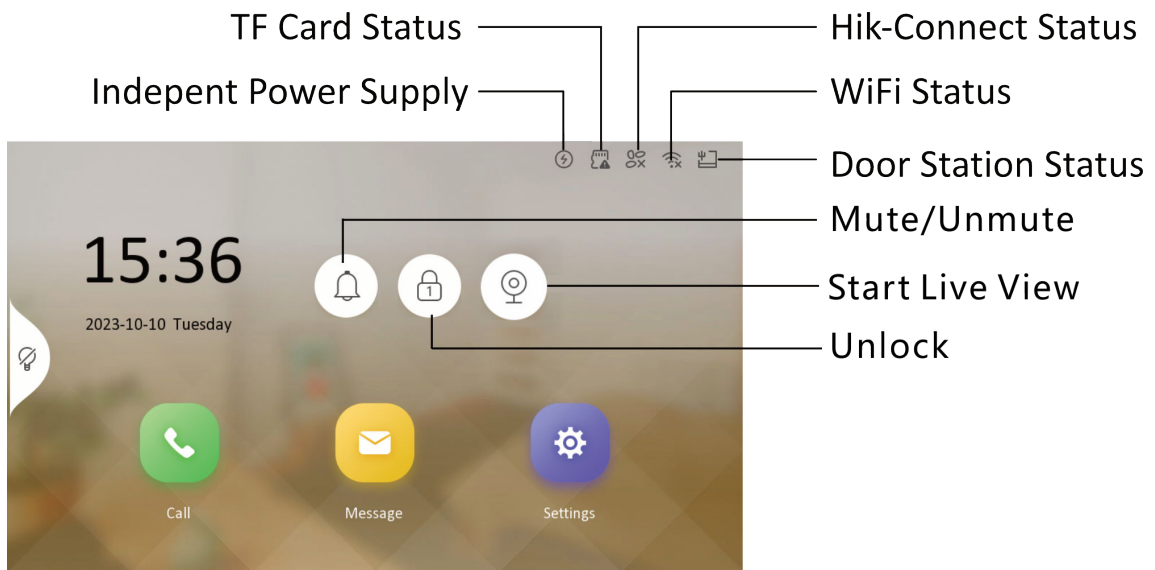
You can mute, unlock, view live videos, and check status on the menu page.

---

 **Note**

The Live View icon can be disabled.

---



**Figure 6-1 View Status**



 **Note**

After muting, there will be no ringtone when receiving a call.

---



Unlock linked device.

By default, you can unlock the main door station.



View live videos of main door station.

## Chapter 7 Call Indoor Station from Door Station

After powering on the device, the door station can call indoor station.

### Steps

1. The door station call indoor station directly.
2. The indoor station views the live video.



**Figure 7-1 Call Indoor Station**

## Chapter 8 Other Operations on Device

### 8.1 Receive Call

The indoor station and indoor extension can receive calls from door station, outer door station and sub door station.

On the call from door station page, there are 2 unlock buttons: Unlock 1, and Unlock 2. When you tap **Unlock 1**, the building gate will open by default, and when you tap **Unlock 2**, the door connected to the door station with the secure control door unit will open.

Tap the capture button to capture and save the live view picture when speaking with the door station.

---


#### Note

The indoor extension can connect to indoor station with network cables. After connecting, the indoor extension can receive calls from devices that linked to the indoor station.

---

### 8.2 View Call Logs

#### Steps

1. Tap **Call** →  to enter the call log page.
2. Tap a piece of call logs in the list to call back.

---

#### Note


- The indoor station saves call logs from door stations, outer door stations, and sub door stations.
  - Hold a piece of call logs to open the call logs handling menu. Tap **Delete** to delete the piece of call logs. Tap **Clear** to delete all pieces of call logs.
- 

### 8.3 View Capture Logs

#### Before You Start

You need to enable the function of snapshot before you can receive capture logs. For more details, please refer to [\*Preference\*](#)

#### Steps


1. Tap **Message** →  to enter the capture log page.
2. You can view all capture logs on this page.

## Chapter 9 Configuration on Device

### 9.1 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.

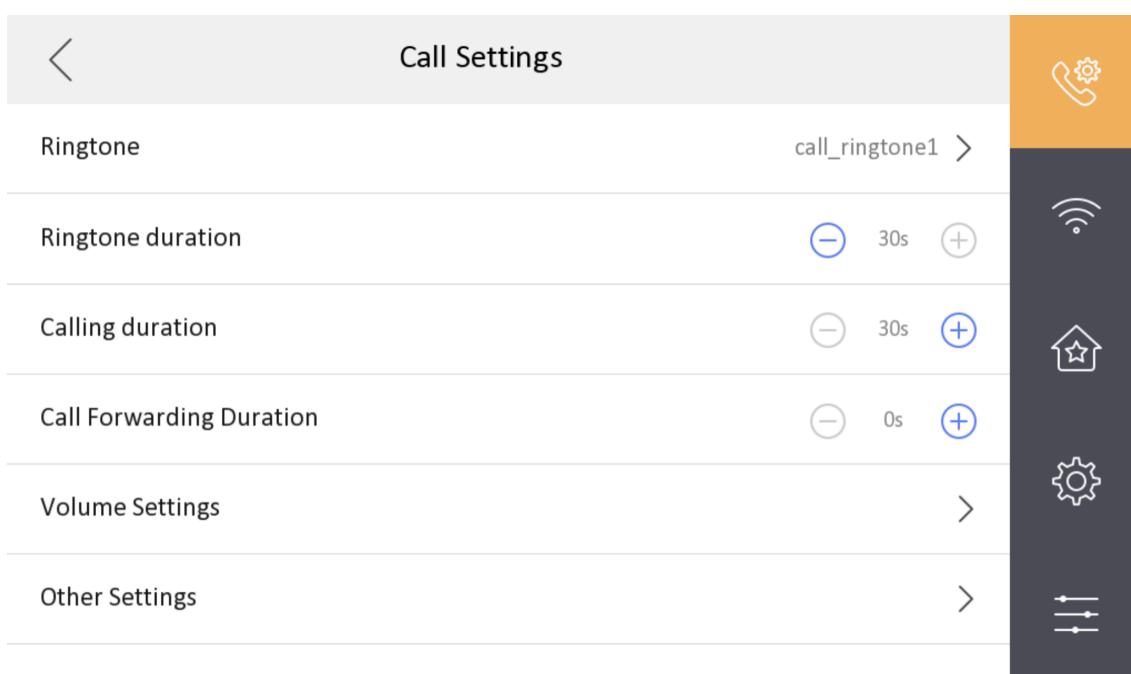


Figure 9-1 Call Settings

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 10 s to 30 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 enable professional studio function, set unlock and unlock duration.

#### Professional Studio

You can enable the function of **Professional Studio** according to your actual needs.

---

#### Note

- The function is disabled by default. When it is enabled, the door will be opened automatically when the outer station or door station calls the indoor station.
  - If the second rotary DIP Switch of the indoor station turns 1, the shortcut key button of professional studio will be displayed on the menu. By default, the button will not be displayed.
- 

#### Unlock Settings

Select the lock for unlocking.

---

#### Note

By default, professional studio function configures lock 1.

---

#### Unlock Duration

You can view the duration for unlocking.

---

#### Note

Indoor extension does not support the ring duration settings and call forwarding settings.

---

## 9.2 Shortcut Settings

You can configure shortcut keys on the shortcut settings page.

### Unlock Keys

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

#### Unlock Key



You can select device and lock for settings.

#### Shortcut Keys

You can set different functions to different shortcut keys.

Tap to enable the shortcut key. Set the function, device and lock for the key.

### Live View

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

Enable **Live View**, and the icon of live view will be shown on the main page.

### Professional Studio

Tap **Settings** →  → **Other Settings** . Enable **Professional Studio**, and the icon will be shown on the main page.

### 9.3 Set Live View

On the live view page, you can view the live video of linked door station, outer door station and sub door station.

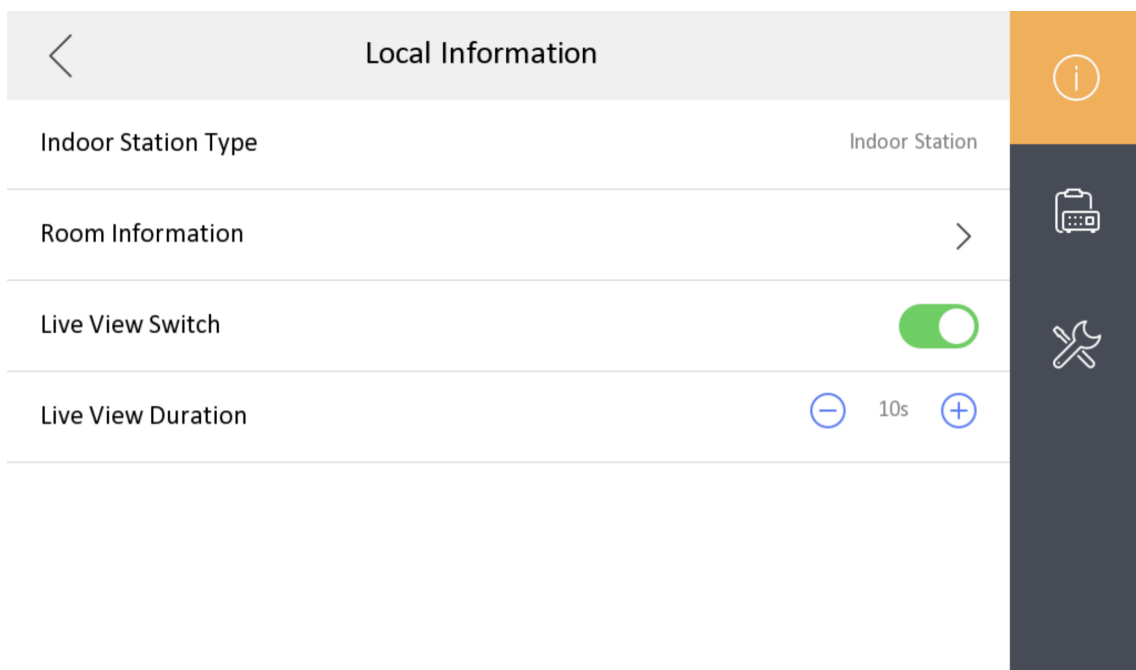
#### Steps

---

##### **Note**

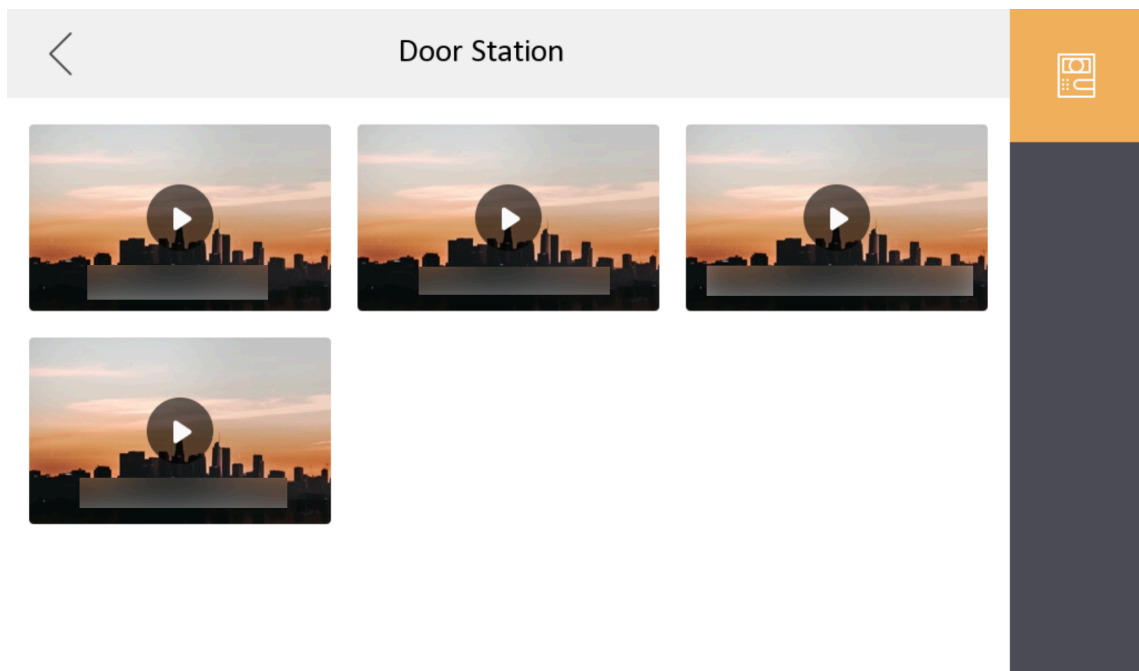
- Make sure the door station is well-connected.
  - Make sure the indoor extension and the indoor station are well-connected.
- 

1. Tap **Settings** →  → **Configuration** →  to enter the page of Local Information.




**Figure 9-2 Local Information**

2. Enable **Live View** and the device can start view live videos of linked devices. You can also set the duration for live view.
3. After enable the function, the live view icon will be shown on the main page. Tap **Live View** on the main page.



**Figure 9-3 Live View**

4. Tap  to enter the live view page of door station.

---

### Note

- On the Call from Door Station page, there are 2 unlock buttons: Unlock 1, and Unlock 2. When you tap **Unlock 1**, the building gate will open by default. When you tap **Unlock 2**, the door station connected door will open.
  - On the **Call from Door Station** page, there are 1 capture button. You can tap the button to capture the picture via door station.
  - The indoor station can view live videos of at most 1 main door station + 16 sub door station +10 outer door station.
- 

## 9.4 Volume Settings

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

### Steps

1. Tap **Settings** →  → **Volume Settings** to enter the volume settings page.

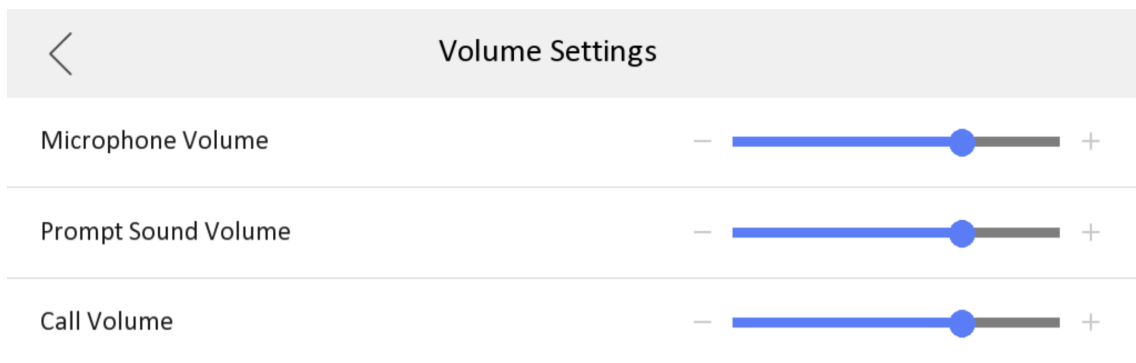


Figure 9-4 Volume Settings Page

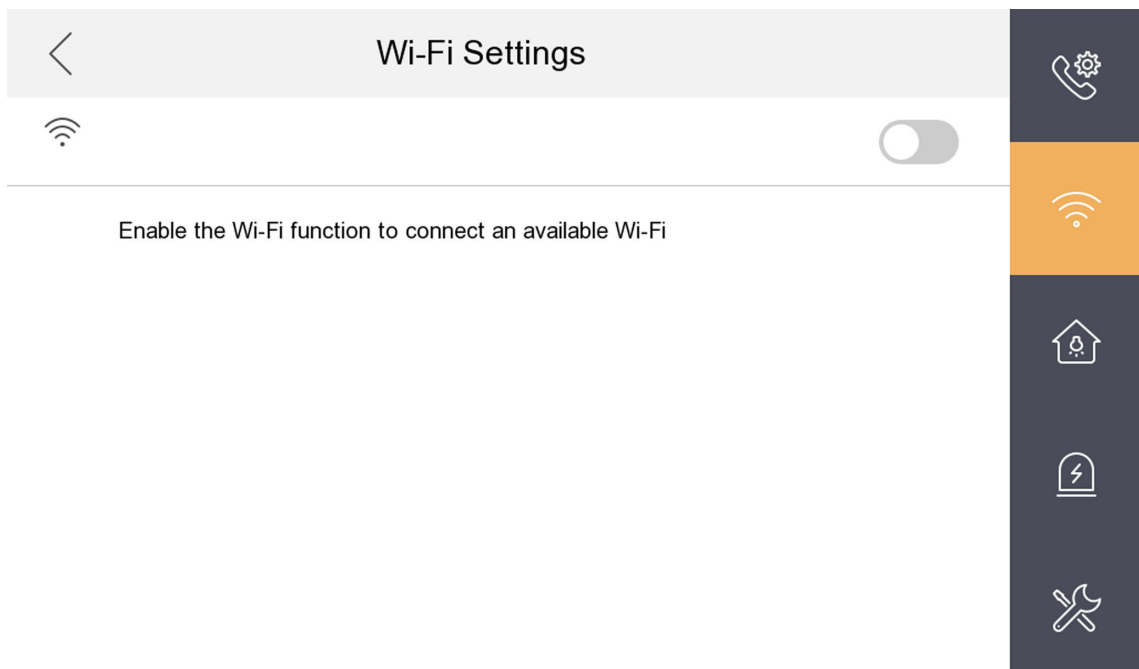
## 9.5 App Settings

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

### 9.5.1 Connect to Wi-Fi

After connecting to Wi-Fi, you can view live videos and unlock the door via mobile App. Only some indoor stations support Wi-Fi.

Tap **Settings** → **Wi-Fi Settings** . Enable **Wi-Fi**, and the indoor station can search the Wi-Fi.



**Figure 9-5 Wi-Fi Settings**

After connecting to the Wi-Fi, you can operate remotely via the mobile App. The App supports displaying the list of linked door stations. You can unlock the door, receive calls from door stations.



### 9.5.2 Link to the Mobile Client

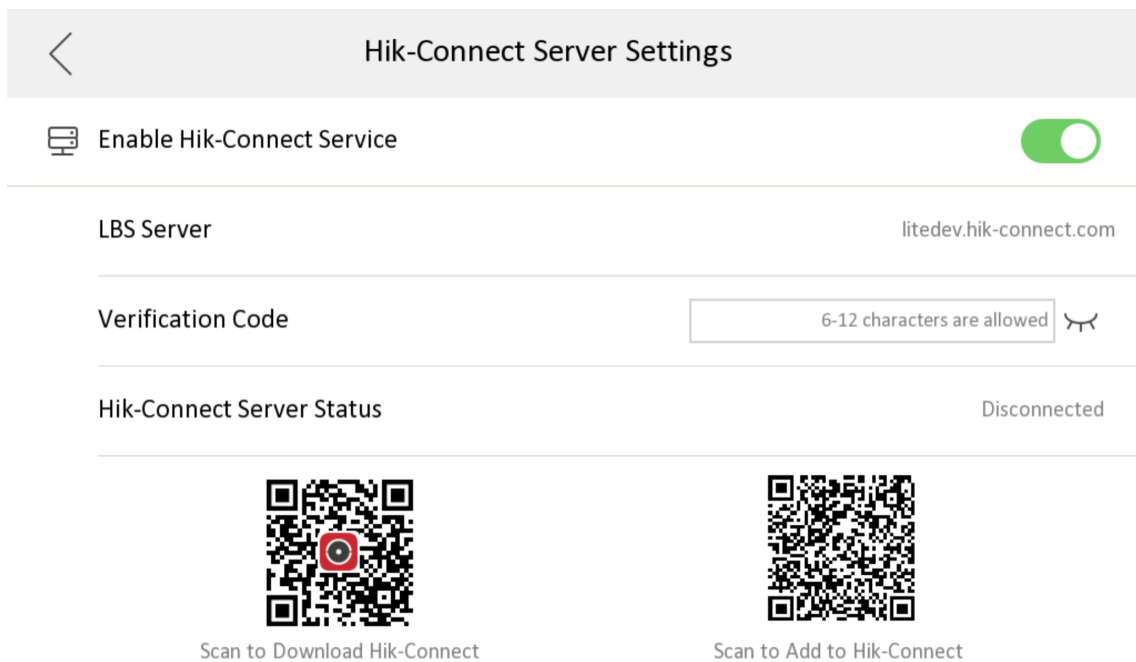
#### Before You Start

##### Note

The function of the device varies according to different models. Refers to the actual device for detailed information.

#### Steps

1. Tap **Settings** →  → **Configuration** →  → **Hik-Connect Service Settings** to enter the settings page.
2. Enable **Enable Hik-Connect Service**.



**Figure 9-6 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**

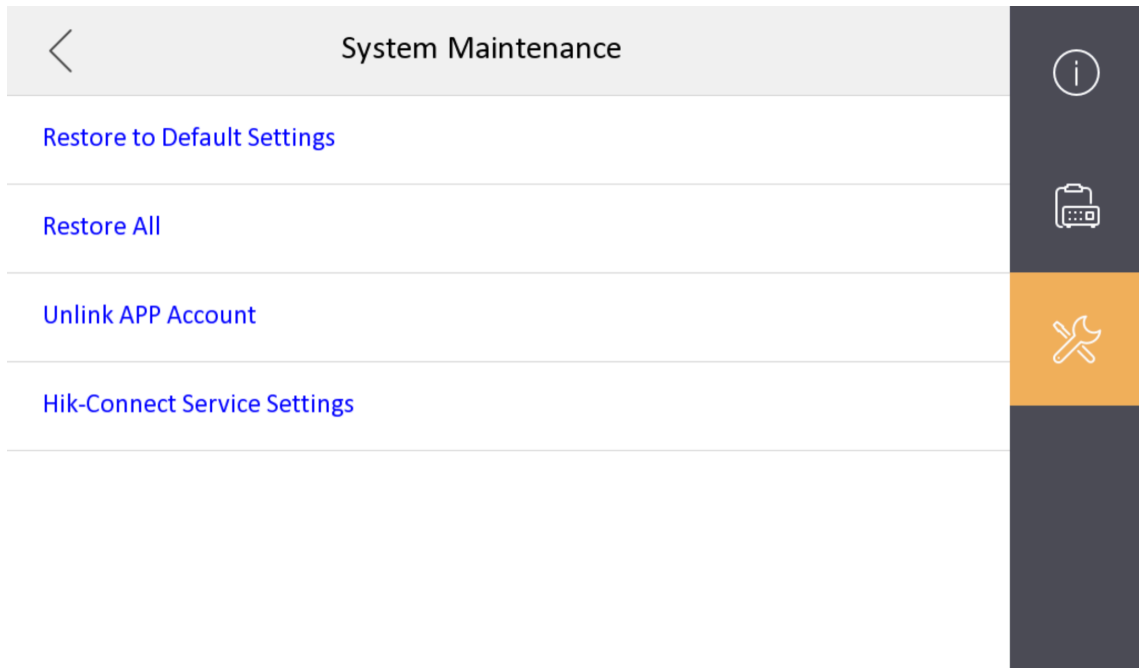
- Scan the left QR code on the screen to access Hik-Connect.
- Scan the right QR code on the screen to add the device to the mobile client.

### 9.5.3 Unlink App Account

Remove the account from the mobile client.

#### **Steps**

1. Tap **Settings** →  → **Configuration** .
2. Tap  to enter the system maintenance page.



**Figure 9-7 System Maintenance**

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



## 9.6 Add Outer Door Station

The indoor station can connect to the outer door station. After connecting, the outer station can call indoor station.

### Before You Start

You need to set the No. of the outer door station via the DIP switch.

### Steps

1. Tap **Settings** →  → **Configuration** →  to enter the device management page.
2. Tap **+** to add a outer door station.
3. Enter the **No.** and tap **OK**.

## 9.7 Number Settings

You can set building No. and room No. via the rotary DIP switch. For details, please refer to **Set Device Rotary DIP Switch** .

### 9.8 View Indoor Station Type

#### Steps

1. Tap **Settings** →  → **Configuration** → **Local Information** to enter the Local Information page.

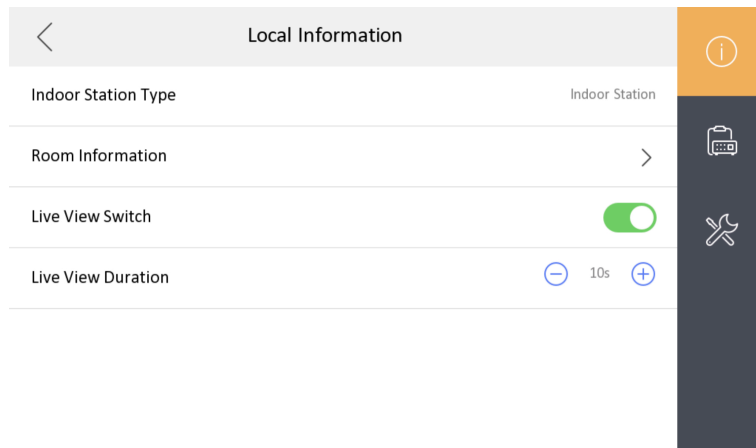


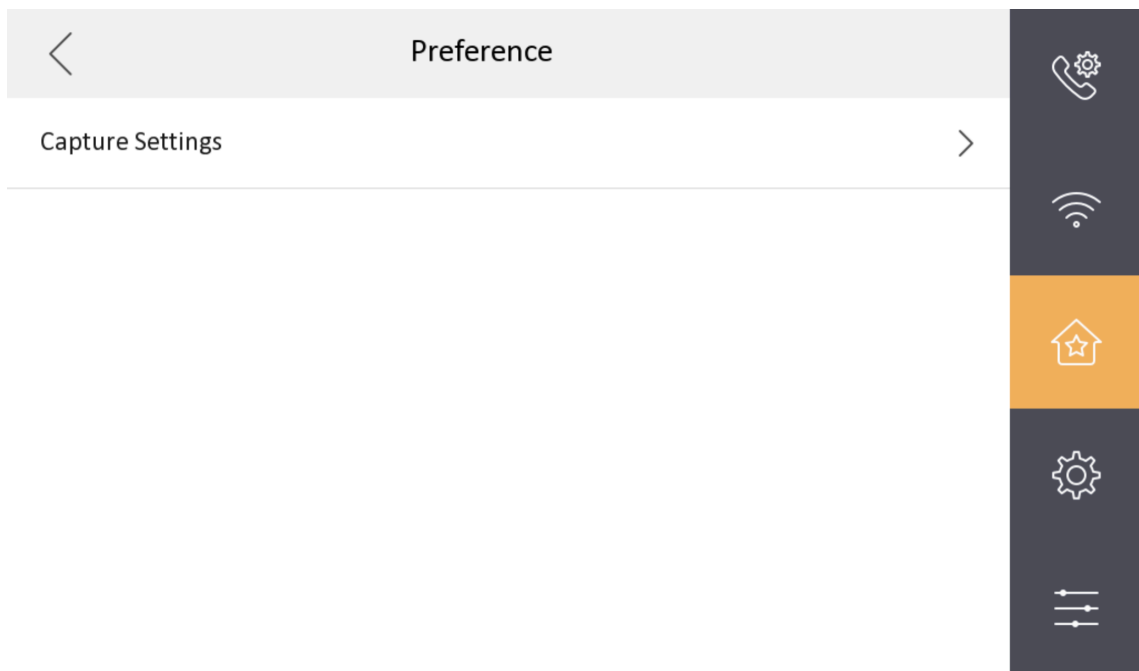
Figure 9-8 Local Information

2. View the **Indoor Station Type**.

### 9.9 Preference

You can set capture settings on the preference page.

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



**Figure 9-9 Preference**

### **Capture Settings**

After enable **Snapshot**, you can capture pictures when receiving the call and viewing the live videos. You can set the **Snapshot Time** which is the duration for the captured picture saved in the TF card.

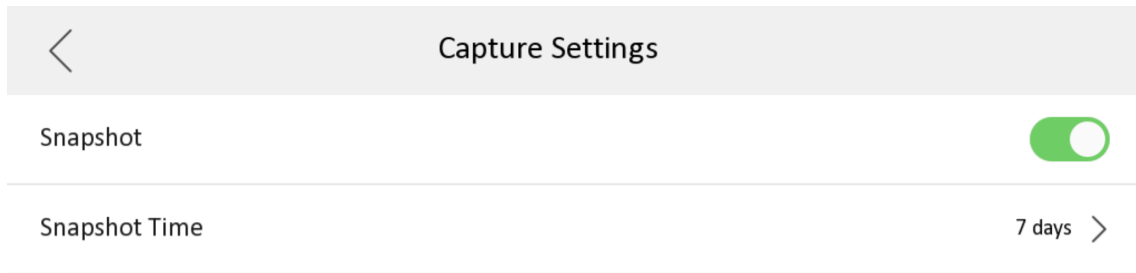

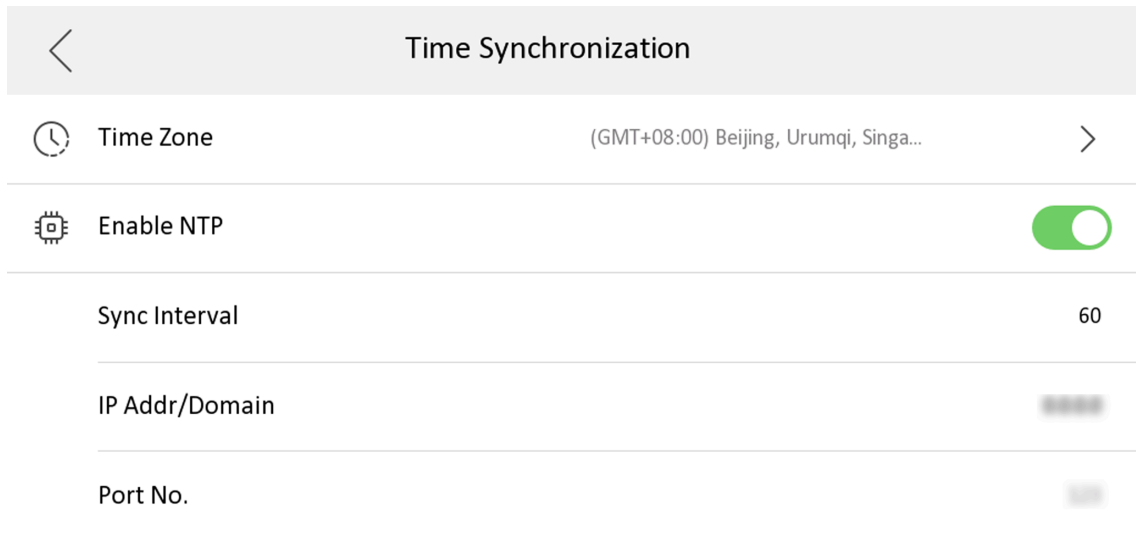


Figure 9-10 Capture Settings

### 9.10 Set Time

#### Steps

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



**Figure 9-11 Time Synchronization**

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

---

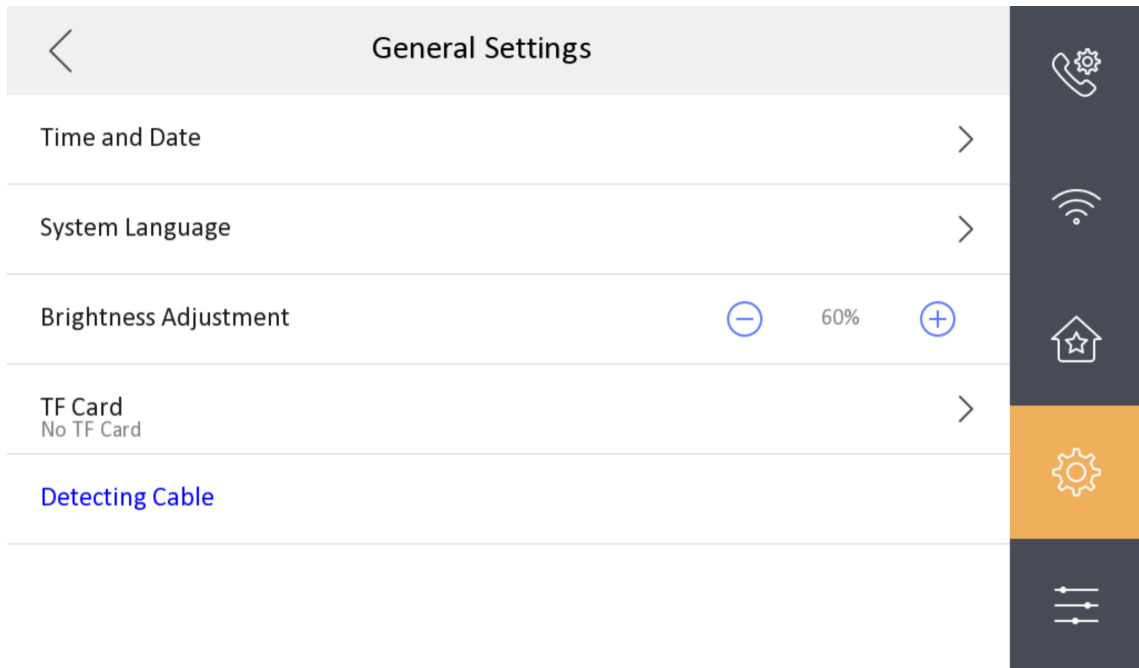
 **Note**

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

## 9.11 Change System Language

### Steps

1. Tap **Settings** →  to enter the General Settings page.



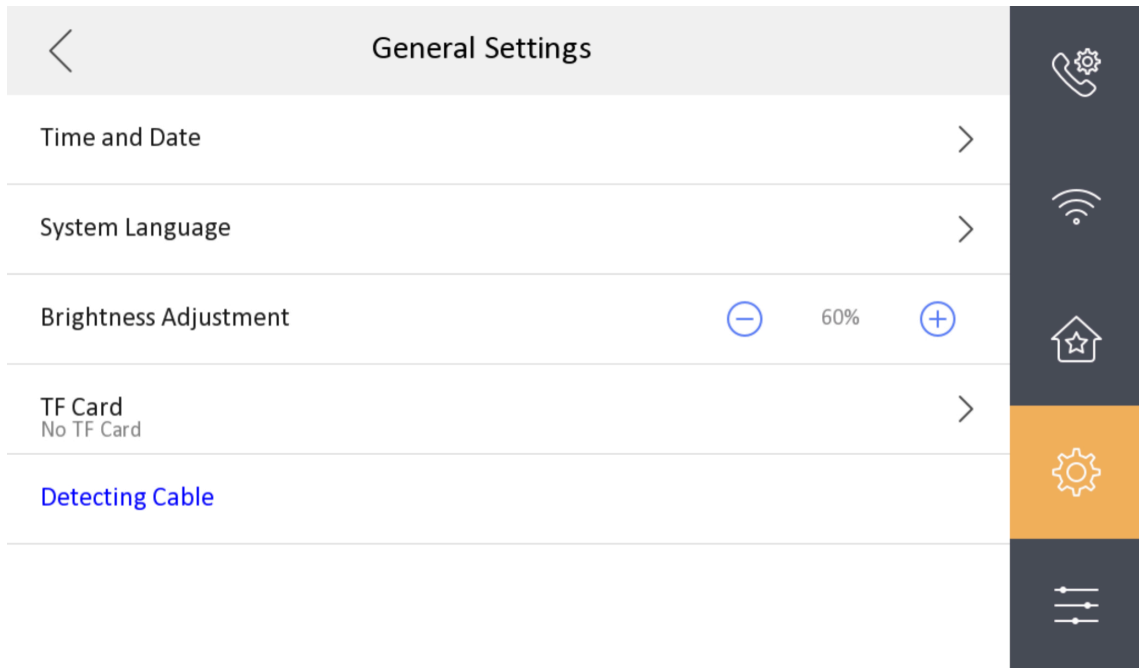
**Figure 9-12 General Settings**

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

### 9.12 Adjust Brightness

#### Steps

1. Tap **Settings** →  to enter the General Settings page.



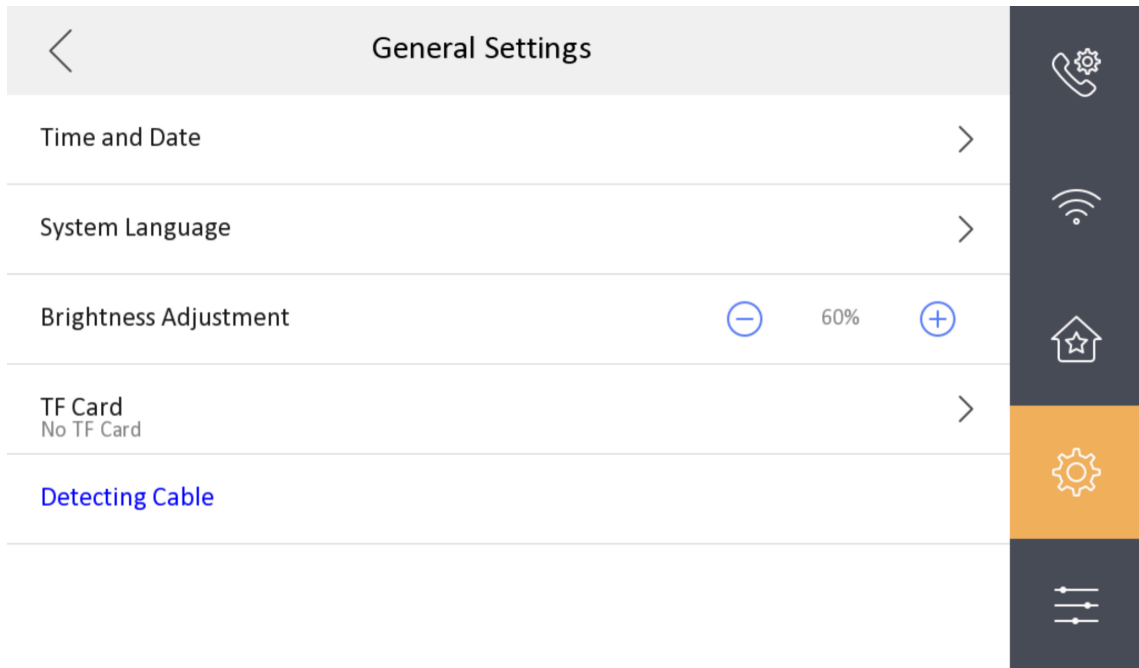
**Figure 9-13 General Settings**

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

### 9.13 Test Network

#### Steps

1. Tap **Settings** →  to enter the General Settings page.



**Figure 9-14 General Settings**

2. Tap **Detecting Cable** to test whether the network can meet the requirement of the device using.

### 9.14 Restore Device

#### Steps

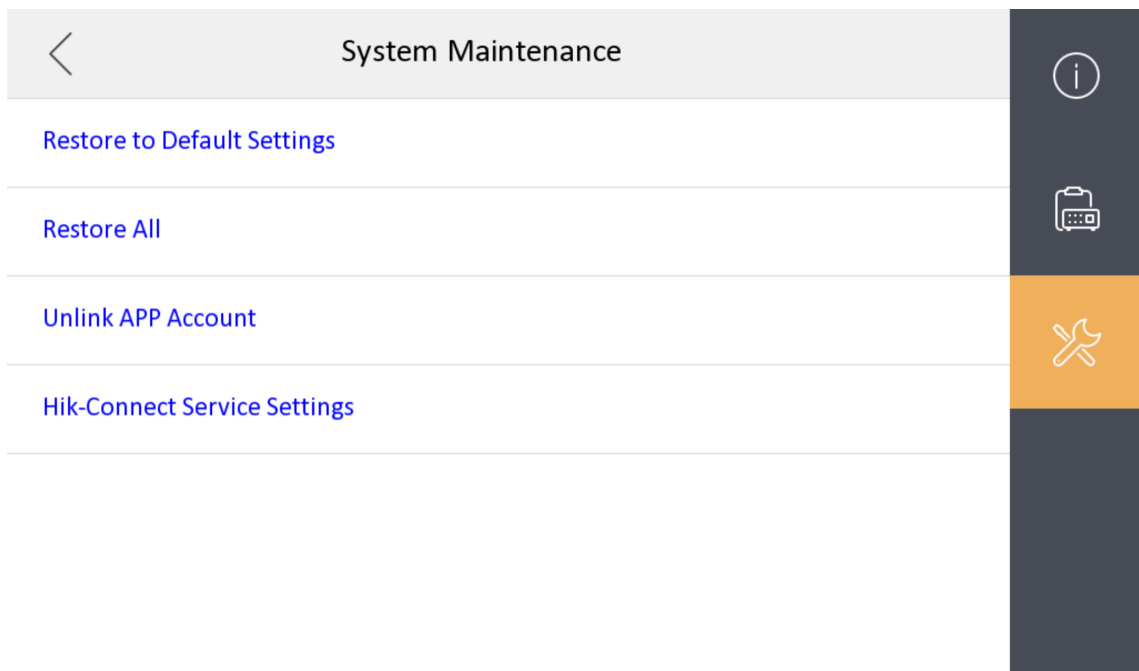
1. On the main page of the device, tap **Settings** → **Advanced Settings** → **System Maintenance** to enter the restore default settings page.

---

#### **Note**

Admin password is required to enter the advanced settings page.

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**Figure 9-15 Restore Default Settings**

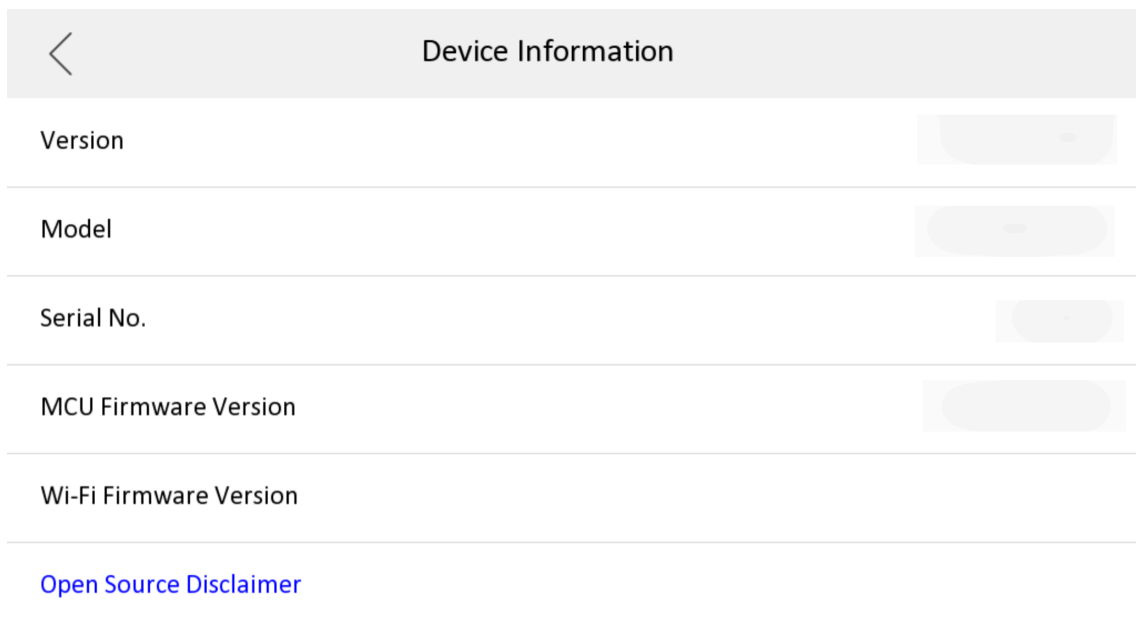
2. Tap **Restore Default Settings** to restore the default settings and reboot the system.
3. Tap **Restore All** to restore all parameters and reboot the system.

### 9.15 View Device Information

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

#### Steps

1. Tap **Settings** →  → **Device Information** to enter the Device Information page.



**Figure 9-16 Device Information**

2. View the device version, model, firmware version and serial No.
3. **Optional:** Tap **Open Source Disclaimer** to view the OSS statement.

## Chapter 10 FAQ

The FAQ for indoor station is listed as follows.

1. Q: How to light up the screen? Why it doesn't work when I press the screen?  
A: You can only press the unlock key to light up the screen.
2. Q: I connected multiple indoor station, but why only one indoor station screen can be light up?  
A: Because all devices in same building use one power supply to save power. Therefore, only one indoor station is allowed to operate at the same time. If you would like to operate another indoor station, please wait for the first indoor station to screen off.
3. Q: Is there any way to light up more than one indoor station screen at the same time?  
A: If you power the indoor station with separate 12 V 1 A power adapter, then set the 1st DIP switch as on, then it can be operated any time. No matter other indoor station screen is ON or OFF.

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 **Note**

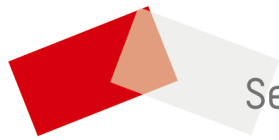
Setting the DIP 1 as **ON** without powering the indoor station with separate power adapter may lead to insufficient power to the whole system and other unpredictable problems.

4. Q: I configured indoor station and several indoor station, when calling from door station, only the main indoor station screen show the image, the extensions only give the ring sound but no image is shown on the screen, why?  
A: All devices in same building use one same power supply in order to save power. Only main indoor station will show the image, but if you answer from indoor extension, the screen will light up and main indoor station screen will become off.
5. Q: There are some LED lights flashing on the right side of screen, what's the meaning of that?  
A: Please check the table below first.

Type	Power	In Use	Mute (Do Not Disturb)	Wi-Fi	Reason	Solution
Rotary Switch	Flashing	Flashing	OFF	OFF	Rotary Switch is wrong/ conflict	Check indoor station rotary switch
Door Station	Flashing	OFF	Flashing	OFF	Door station is offline	Check wiring or rotary switch, whether have same

Type	Power	In Use	Mute (Do Not Disturb)	Wi-Fi	Reason	Solution
						building number as door station
Distributor	Flashing	OFF	OFF	OFF	Wiring abnormal	Check the wiring between distributor and indoor station

6. Q: How long will the indoor station screen keep ON? Can I change the duration?  
 A: The screen will be off after 5 s if no operation (including press the button, touch the screen, call from door station, remote unlock/Live view/Enable two-way audio from Hik-Connect APP. upgrade indoor station firmware from door station), considering the power saving we can't modify or extend the time duration.
7. Q: Why it prompts the live view failed when I click the camera icon?  
 A: The live view door station function is disabled by default, you can enable it from menu→advanced function→configuration→live view switch.



See Far, Go Further