

DS-KD-ALJ5 Series Module Door Station

User Manual

Legal Information

©2023 Hangzhou Hikvision Digital Technology Co., Ltd. All rights reserved.

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 (<u>https://</u>

www.hikvision.com/).

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

Trademarks

HIKVISION and other Hikvision's trademarks and logos are the properties of Hikvision in various jurisdictions.

Other trademarks and logos mentioned are the properties of their respective owners.

Disclaimer

TO THE MAXIMUM EXTENT PERMITTED BY APPLICABLE LAW, THIS MANUAL AND THE PRODUCT DESCRIBED, WITH ITS HARDWARE, SOFTWARE AND FIRMWARE, ARE PROVIDED "AS IS" AND "WITH ALL FAULTS AND ERRORS". HIKVISION MAKES NO WARRANTIES, EXPRESS OR IMPLIED, INCLUDING WITHOUT LIMITATION, MERCHANTABILITY, SATISFACTORY QUALITY, OR FITNESS FOR A PARTICULAR PURPOSE. THE USE OF THE PRODUCT BY YOU IS AT YOUR OWN RISK. IN NO EVENT WILL HIKVISION BE LIABLE TO YOU FOR ANY SPECIAL, CONSEQUENTIAL, INCIDENTAL, OR INDIRECT DAMAGES, INCLUDING, AMONG OTHERS, DAMAGES FOR LOSS OF BUSINESS PROFITS, BUSINESS INTERRUPTION, OR LOSS OF DATA, CORRUPTION OF SYSTEMS, OR LOSS OF DOCUMENTATION, WHETHER BASED ON BREACH OF CONTRACT, TORT (INCLUDING NEGLIGENCE), PRODUCT LIABILITY, OR OTHERWISE, IN CONNECTION WITH THE USE OF THE PRODUCT, EVEN IF HIKVISION HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES OR LOSS.

YOU ACKNOWLEDGE THAT THE NATURE OF THE INTERNET PROVIDES FOR INHERENT SECURITY RISKS, AND HIKVISION SHALL NOT TAKE ANY RESPONSIBILITIES FOR ABNORMAL OPERATION, PRIVACY LEAKAGE OR OTHER DAMAGES RESULTING FROM CYBER-ATTACK, HACKER ATTACK, VIRUS INFECTION, OR OTHER INTERNET SECURITY RISKS; HOWEVER, HIKVISION WILL PROVIDE TIMELY TECHNICAL SUPPORT IF REQUIRED.

YOU AGREE TO USE THIS PRODUCT IN COMPLIANCE WITH ALL APPLICABLE LAWS, AND YOU ARE SOLELY RESPONSIBLE FOR ENSURING THAT YOUR USE CONFORMS TO THE APPLICABLE LAW. ESPECIALLY, YOU ARE RESPONSIBLE, FOR USING THIS PRODUCT IN A MANNER THAT DOES NOT INFRINGE ON THE RIGHTS OF THIRD PARTIES, INCLUDING WITHOUT LIMITATION, RIGHTS OF PUBLICITY, INTELLECTUAL PROPERTY RIGHTS, OR DATA PROTECTION AND OTHER PRIVACY RIGHTS. YOU SHALL NOT USE THIS PRODUCT FOR ANY PROHIBITED END-USES, INCLUDING THE DEVELOPMENT OR PRODUCTION OF WEAPONS OF MASS DESTRUCTION, THE DEVELOPMENT OR PRODUCTION OF CHEMICAL OR BIOLOGICAL WEAPONS, ANY ACTIVITIES IN THE CONTEXT RELATED TO ANY NUCLEAR EXPLOSIVE OR UNSAFE NUCLEAR FUEL-CYCLE, OR IN SUPPORT OF HUMAN RIGHTS ABUSES.

IN THE EVENT OF ANY CONFLICTS BETWEEN THIS MANUAL AND THE APPLICABLE LAW, THE LATTER PREVAILS.

Data Protection

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

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

Symbol Conventions

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

Symbol	Description
Danger	Indicates a hazardous situation which, if not avoided, will or could result in death or serious injury.
A Caution	Indicates a potentially hazardous situation which, if not avoided, could result in equipment damage, data loss, performance degradation, or unexpected results.
i 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 FCC Conditions

This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions:

1. This device may not cause harmful interference.

2. This device must accept any interference received, including interference that may cause undesired operation.

EU Conformity Statement



This product and - if applicable - the supplied accessories too are marked with "CE" and comply therefore with the applicable harmonized European standards listed under the EMC Directive 2014/30/EU, the RoHS Directive 2011/65/EU



2012/19/EU (WEEE directive): Products marked with this symbol cannot be disposed of as unsorted municipal waste in the European Union. For proper recycling, return this product to your local supplier upon the purchase of equivalent new equipment, or dispose of it at designated collection points. For more information see: www.recyclethis.info



2006/66/EC (battery directive): This product contains a battery that cannot be disposed of as unsorted municipal waste in the European Union. See the product documentation for specific battery information. The battery is marked with this symbol, which may include lettering to indicate cadmium (Cd), lead (Pb), or mercury (Hg). For proper recycling, return the battery to your supplier or to a designated collection point. For more information see:www.recyclethis.info

Industry Canada ICES-003 Compliance

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

This device complies with Industry Canada licence-exempt RSS standard(s). Operation is subject to the following two conditions:

- 1. this device may not cause interference, and
- 2. this device must accept any interference, including interference that may cause undesired operation of the device.

Le présent appareil est conforme aux CNR d'Industrie Canada applicables aux appareils radioexempts de licence. L'exploitation est autorisée aux deux conditions suivantes :

- 1. l'appareil ne doit pas produire de brouillage, et
- 2. l'utilisateur de l'appareil doit accepter tout brouillage radioélectrique subi, même si le brouillage est susceptible d'en compromettre le fonctionnement.

Under Industry Canada regulations, this radio transmitter may only operate using an antenna of a type and maximum (or lesser) gain approved for the transmitter by Industry Canada. To reduce potential radio interference to other users, the antenna type and its gain should be so chosen that the equivalent isotropically radiated power (e.i.r.p.) is not more than that necessary for successful communication.

Conformément à la réglementation d'Industrie Canada, le présent émetteur radio peut fonctionner avec une antenne d'un type et d'un gain maximal (ou inférieur) approuvé pour l'émetteur par Industrie Canada. Dans le but de réduire les risques de brouillage radioélectrique à l'intention des autres utilisateurs, il faut choisir le type d'antenne et son gain de sorte que la puissance isotrope rayonnée équivalente (p.i.r.e.) ne dépasse pas l'intensité nécessaire à l'établissement d'une communication satisfaisante.

This equipment should be installed and operated with a minimum distance 20cm between the radiator and your body.

Cet équipement doit être installé et utilisé à une distance minimale de 20 cm entre le radiateur et votre corps.

Power Source Detail

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

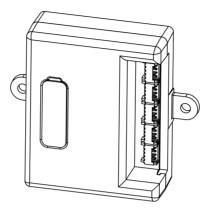
Contents

Chapter 1 Introduction 1
Chapter 2 Appearance 2
Chapter 3 Terminal and Wiring 4
3.1 Terminal Description 4
3.2 Alarm Input Device Wiring
Chapter 4 Installation
4.1 Configure Alarm In Module Address 7
4.2 Alarm In Module Installation
4.3 Typical Application
Chapter 5 Activation 10
5.1 Activate Device via Client Software 10
5.2 Edit Network Parameters 10
Chapter 6 Remote Configuration via Web 12
6.1 Live View 12
6.2 User Management 12
6.3 Device Management 14
6.4 Parameters Settings 14
6.4.1 Local Parameters Settings 15
6.4.2 System Settings 16
6.4.3 Network Settings 18
6.4.4 Video & Audio Settings 23
6.4.5 Image Settings 26
6.4.6 Event Settings 29
6.4.7 Schedule Settings 33
6.4.8 Intercom Settings 34
6.4.9 Access Control Settings 39

Chapter 7 Configuration via Client Software 4	43
7.1 Device Management 4	43
7.1.1 Add Online Device 4	43
7.1.2 Add Device by IP Address 4	45
7.1.3 Add Device by IP Segment 4	45
7.2 Live View via Door Station 4	45
7.3 Parameters Settings 4	45
7.3.1 Device Management 4	45
7.3.2 Local Parameters Settings 4	46
7.3.3 System Settings 4	48
7.3.4 Network Settings 5	50
7.3.5 Video & Audio Settings 5	55
7.3.6 Image Settings 5	58
7.3.7 Schedule Settings 6	61
7.3.8 Intercom Settings6	62
7.3.9 Access Control Settings 6	67
7.4 Organization Management	71
7.4.1 Add Organization	71
7.4.2 Modify and Delete Organization7	71
7.5 Person Management	71
7.5.1 Add Person	72
7.5.2 Modify and Delete Person 7	73
7.5.3 Import and Export Person Information7	73
7.5.4 Get Person Information from Device7	73
7.5.5 Change Person to Other Organization7	74
7.5.6 Issue Card in Batch 7	74
7.5.7 Permission Settings	77

Appendix A. Relevant Instructions for External Power Supply and Wiring of 2-wire Video	
Intercom Products (2020-1-20)	78
Appendix B. Communication Matrix and Device Command	81

Chapter 1 Introduction

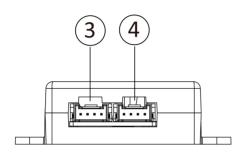


The alarm in module is designed for connecting extended call buttons. After configuration, you can press the connected buttons to call the corresponding indoor stations.

Chapter 2 Appearance

iNote

The module-connecng interface is used to connect other alarm in modules or sub modules such as keypad modules, touch-display modules, etc.



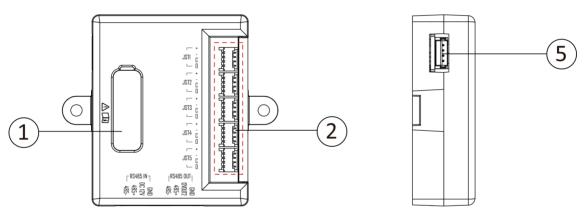


Figure 2-1 Alarm In Module

Table 2-1 Appearance Description

No.	Description
1	DIP Switch
2	Alarm In Terminals
3	Module-connecting Interface (Input)
4	Module-connecting Interface (Output)
5	Debugging Port

No.	Description
	I Note The port is for debugging use only.

Chapter 3 Terminal and Wiring

3.1 Terminal Description

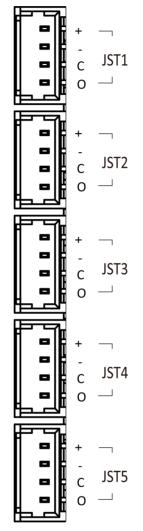


Figure 3-1 Alarm In Module Terminals

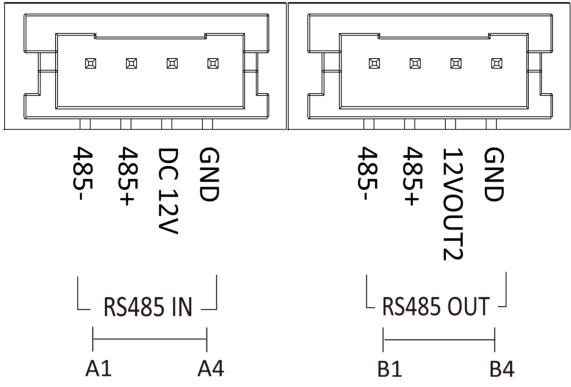


Figure 3-2 Module Connecting Interface

Table 3-1 Description

Interface	Description
JST1	Alarm In Interface for Call Button 1
JST2	Alarm In Interface for Call Button 2
JST3	Alarm In Interface for Call Button 3
JST4	Alarm In Interface for Call Button 4
JST5	Alarm In Interface for Call Button 5
485-	Module-Connecting Interface (Input)
485+	
12V IN	
GND	
485-	Module-Connecting Interface (Output)
485+	

Interface	Description
12V OUT	
GND	

3.2 Alarm Input Device Wiring

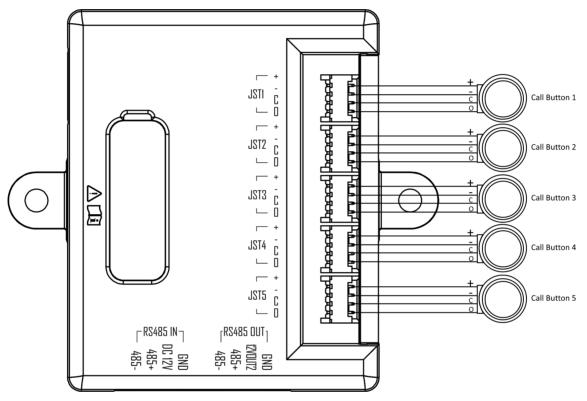


Figure 3-3 Call Button Wiring

5 call buttons can be connected to the alarm in module.

Chapter 4 Installation

iNote

- Make sure the device in the package is in good condition and all the assembly parts are included.
- Sub module must work along with the main unit.
- Set the sub module address before start the installation steps.
- Make sure the place for surface mounting is flat.
- Make sure all the related equipment is power-off during the installation.
- Tools that you need to prepare for installation: Drill (ø6), cross screwdriver (PH1*150 mm), and gradienter.

4.1 Configure Alarm In Module Address

You need to set the alarm in module address via DIP switch before installation.

Steps

1. Remove the rubber cover to expose the DIP switch.

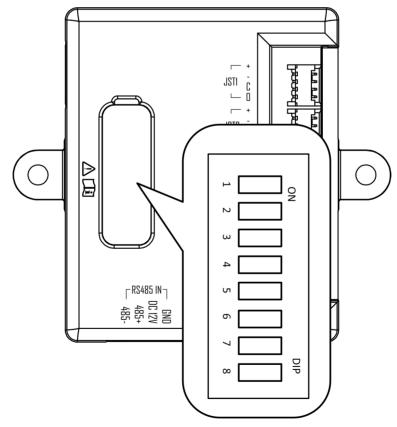


Figure 4-1 DIP Switch

2. Set the address for each alarm in module according to the DIP rules, and install the rubber cover back.

iNote

• Valid sub module address is from 1 to 8. Each address is a binary code and should be unique for connecting to the main unit.

The address and its corresponding switch status are displayed as below. Up to 20 alarm in modules can be cascaded and here takes 8 module addresses for example.

Alarm In Module Address	DIP 1	DIP 2	DIP 3	DIP 4	DIP 5	DIP 6	DIP 7	DIP 8
Module 1	ON	OFF						
Module 2	OFF	ON	OFF	OFF	OFF	OFF	OFF	OFF
Module 3	ON	ON	OFF	OFF	OFF	OFF	OFF	OFF
Module 4	OFF	OFF	ON	OFF	OFF	OFF	OFF	OFF
Module 5	ON	OFF	ON	OFF	OFF	OFF	OFF	OFF
Module 6	OFF	ON	ON	OFF	OFF	OFF	OFF	OFF
Module 7	ON	ON	ON	OFF	OFF	OFF	OFF	OFF
Module 8	OFF	OFF	OFF	ON	OFF	OFF	OFF	OFF

4.2 Alarm In Module Installation

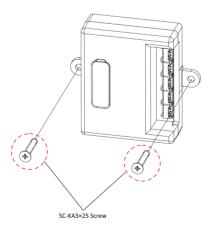


Figure 4-2 Install Alarm In Module

Fix the alarm in module to flat surface with 2 SC-KA3×25 screws.

4.3 Typical Application

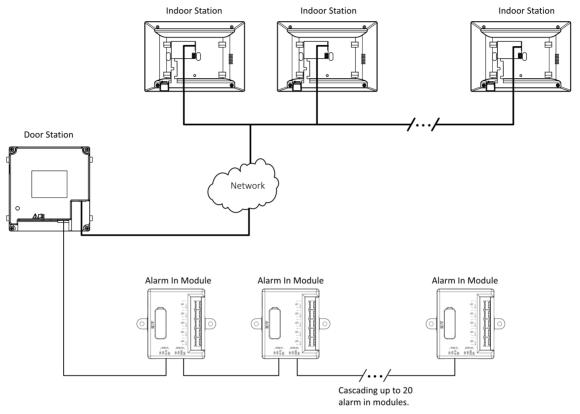


Figure 4-3 Typical Application

iNote

- Up to 20 alarm in modules can be cascaded.
- Make sure the indoor stations are activated and linked to the door station.
- Set address for each alarm in module. For details, see Configure Alarm In Module Address .
- Configure room No. for each alarm in interface on web. For details, see Press Button to Call .

Chapter 5 Activation

5.1 Activate Device via Client Software

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

Default parameters of door station are as follows:

- Default IP Address: 192.0.0.65.
- Default Port No.: 8000.
- Default User Name: admin.

Steps

- 1. Run the client software, click Maintenance and Management → Device Management → Device to enter the page.
- 2. Click Online Device.
- 3. Select an inactivated device and click Activate.
- 4. Create a password, and confirm the password.

iNote

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.

5. Click OK to activate the device.

iNote

- When the device is not activated, the basic operation and remote operation of device cannot be performed.
- You can hold the **Ctrl** or **Shift** key to select multiple devices in the online devices, and click the **Activate** button to activate devices in batch.

5.2 Edit Network Parameters

To operate and configure the device via LAN (Local Area Network), you need connect the device in the same subnet with your PC. You can edit network parameters via **iVMS-4200** client software.

Steps

- 1. Select an online activated device and click the Modify Netinfo.
- 2. Edit the device IP address and gateway address to the same subnet with your computer.
- **3.** Enter the password and click **OK** to save the network parameters modification.

iNote

- The default port No. is 8000.
- The default IP address of the door station is 192.0.0.65.
- After editing the network parameters of device, you should add the devices to the device list again.

Chapter 6 Remote Configuration via Web

6.1 Live View

In the browser address bar, enter the IP address of the device, and press the Enter key to enter the login page.

Enter the user name and password and click **Login** to enter the Live View page. Or you can click **Live View** to enter the page.



Figure 6-1 Live View

- You can start/stop live view, capture, record, audio on/off, two-way audio, etc.
- The stream type can be set as main stream or sub stream.
- For IE (Internet Explorer) users, the device support two-way audio communication.

6.2 User Management

You can add, delete or search the information of the user.

Click User to enter the settings page.

🕂 Add 📋 Delete

User Type

Person ID

Input Keywords Q

End Time

Figure 6-2 User Management

Add User

Basic Information

• Click Add to add users. Enter the Employee ID, Name, Floor No. and Room No., Set the Start Time and End Time. You can set the user as Administrator.

iNote

- If you disable Always Valid, setting start time and end time is necessary.
- No more than 1 room No. can be added per user.

Card Settings

Click **Add Card**. Manually enter the card No. or click **Read** and put your card on the card reading area for the device to identify the card No. automatically. Select card **Property**. Click **OK** to save the card information.

Door Permission

You can check the door status and choose door permission.

Other Operation

- Click 🗷 to modify the information of the user.
- Check the box of the user and click **Delete** in to delete the selected user.
- Enter the keyword and click search icon. The information will display in the list.

iNote

User management function may vary with different models. Please refer to the actual product.

6.3 Device Management

You can manage the linked device on the page.

Click Device Management to enter the settings page.

+ Ac	d 🕞 Import 🕞 Exp	ort 🗊 Delete 🗭 Syr	nchronize 📿 Refresh						Statu	s All	V	Device Type All	×
	No.	Device Type	IP Address	Serial No.	Model	Current Version	Floor No.	Room No.	No.	User Name		Network Status	Operation
	1	Indoor Station	100100	-	1.000	Consideration of the local sectors of the local sec	1	1	-	admin		A Offline	2 1

Figure 6-3 Device Management

Add Device

- Click **Add** to add the indoor station, sub door station or decoder station. Enter the parameters and click **OK** to add.
- Click Import. Enter the information of the device in the template to import devices in batch.

Export

Click Export to export the information to the PC.

Delete

Select the device and click **Delete** to remove the selected device from the list.

Synchronize

Click Synchronize and enable Synchronize for device synchronization.

iNote

When enabling the function, the activated devices will synchronize parameters. Inactivated devices synchronize parameters whether the function is enabled or not.

Refresh

Click **Refresh** to get the device information.

Optional: Set device information.

- Click vec to edit device information.
- Click 🗈 to delete device information from the list.
- Select Status and Device Type to search devices.

6.4 Parameters Settings

Click **Configuration** to set the parameters of the device.

Remote configuration in iVMS-4200 and Batch Configuration Tool is the same as that in Web. Here takes the configuration in web for example.

iNote

Run the browser, click \bigcirc \rightarrow Internet Options \rightarrow Security to disable the Protected Mode.

6.4.1 Local Parameters Settings

You can configure the parameters of the live view, record files and captured pictures. The record files and captured pictures are the ones you record and capture by using the web browser. You can also set and view the saving paths of the captured pictures and recorded videos on the PC that running the web browser.

Live View Parameters				
Stream Type	 Main Stream 	○ Sub-stream		
Play Performance	 Shortest Delay 	 Balanced 	\bigcirc	Fluent
Auto Start Live View	⊖ Yes	No		
Image Format	• JPEG	○ ВМР		
Record File Settings				
Record File Size	256M	○ 512M	\bigcirc	1G
Save record files to	undefined			Open
Picture and Clip Settings				
Save snapshots in live view to	undefined			Open
	Save			

Figure 6-4 Local Parameters

Live View Parameters

Stream Type

Set the stream type as Main Stream or Sub-stream.

Play Performance

Set the live view performance to Shortest Delay, Balanced or Fluent.

Auto Start Live View

Check **Yes** to enable the function.

Image Format

Select the image format for picture capture.

Click Save to enable the settings.

Record File Parameters

Record File Size

Select the packed size of the manually recorded and downloaded video files to **256M**, **512M** or **1G**. After the selection, the maximum record file size is the value you selected.

Save record files to

Set the saving path for the manually recorded video files.

Click **Save** to enable the settings.

Picture and Clip Settings

Save snapshots in live view to

Set the saving path of the manually captured pictures in live view mode.

iNote

You can click **Browse** to change the directory for saving the clips and pictures, and click **Open** to open the set folder of clips and picture saving.

Click **Save** to enable the settings.

6.4.2 System Settings

Follow the instructions below to configure the system settings, include System Settings, Maintenance, Security, and User Management, etc.

Click System to enter the settings page.

Basic Information

Click System Settings \rightarrow Basic Information to enter the settings page. On the page, you can edit **Device Name** and **Device No.** Set the Language according to your needs.

You can view the quantities of added users and cards in **Capacity**. Click **Save** to enable the settings.

Time Settings

Click **System Settings** → **Time Settings** to enter the settings page. Select the **Time Zone** of your location from the drop-down list.

- Enable NTP, set the Server Address, NTP Port and Interval.
- Enable Manual Time Sync., set the time manually or check the Sync. with computer time.

Click **Save** to enable the settings.

DST

Click System Settings \rightarrow DST to check Enable DST. Set the parameters according to your needs and click Save to enable the settings.

About

Click System Settings → About and click View Licenses to view open source software licenses.

Maintenance

Click Maintenance → Upgrade & Maintenance to enter the settings page.

Reboot		
	Reboot Reboot the device.	
Restore Parameters		
	Default Reset all the parameters, except the IP parameters and user information, to the default settings.	
	Restore All Restore all parameters to default settings.	
Export		
	Device Parameters V Export	
Import Config File		
Device Parameters 🗸	E Import	
Upgrade		
Upgrade Settings	Controller 🔽	
Import File	Upgrade	
	te: The upgrading process will be 1 to 10 minutes, please don't disconnect power to the device during the process. The device reboots automatically after up	aradina

Figure 6-5 Upgrade & Maintenance

- Reboot: Click **Reboot** to reboot the device.
- Default

Click **Default** to reset all the parameters, except the IP parameters and user information, to the default settings.

Restore All

Click Restore All to restore all parameters to default settings.

- Export parameters:
 - 1. Select **Device Parameters**, and click **Export** to pop up the dialog box.
 - 2. Set and confirm the encryption password.
 - 3. Click **OK** to export parameters.
- Import Config. File:
 - 1. Click browse icon to select the configuration file.
 - 2. Click Import and enter the encryption password to import.
- Upgrade: Click browse icon to select the upgrade file.

iNote

The upgrading process will last 1 to 10 minutes, do not power off during the upgrading. The device reboots automatically after upgrading.

Security Service

Click **Security** \rightarrow **Security** Service to enter the settings page. On the page, you can enable SSH according to your actual needs.

Click Save to enable the settings.

User Management

Click **User Management** to enter the settings page. Administrator can edit the permission for the users.

iNote

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.

Online Users

Click **User Management** \rightarrow **Online Users** to enter the page. Click **Refresh** to get the present information.

Arming/Disarming Information

Click **User Management** → **Arming/Disarming Information** to view the information. Click **Refresh** to get the present information.

6.4.3 Network Settings

TCP/IP Settings

TCP/IP settings must be properly configured before you operate the device over network. The device supports IPv4.

Steps

```
1. Click Network → Basic Settings → TCP/IP to enter the settings page.
```

DHCP		
Network Card	Network Card1	~
IPv4 Address		
IPv4 Subnet Mask		
IPv4 Default Gateway		
Mac Address		
MTU		

DNS Server

Preferred DNS Server	
Alternate DNS Server	



Figure 6-6 TCP/IP Settings

- 2. Configure the network parameters.
 - Enable **DHCP** and the device will get the parameters automatically.
 - Disable DHCP and set the IPv4 Address, IPv4 Subnet Mask and IPv4 Default Gateway manually.
- **3.** Configure the corresponding DNS server parameters.
- 4. Click Save to enable the settings.

Port Settings

Steps

1. Click **Network** \rightarrow **Basic Settings** \rightarrow **Port** to enter the settings page.

HTTP Port	
RTSP Port	
HTTPS Port	
Server Port	
	Save

Figure 6-7 Port Settings

2. Set the ports of the device.

HTTP Port

The default port number is 80, and it can be changed to any port No. which is not occupied.

RTSP Port

The default port number is 554.

HTTPS Port

The default port number is 443, and it can be changed to any port No. which is not occupied.

Server Port

The default server port number is 8000, and it can be changed to any port No. ranges from 2000 to 65535.

3. Click Save to enable the settings.

SIP Setting

Steps

1. Click **Network** \rightarrow **Basic Settings** \rightarrow **SIP** to enter the settings page.

Enable VOIP Gateway		
Register User Name		
Registration Password		
Server Address		
Server Port	5060	
Expiry Time	60	minute(s)
Register Status	Not Registered	
Number		
Display User Name		
_		
	Save	

Figure 6-8 SIP Settings

- 2. Check Enable VOIP Gateway.
- **3.** Configure the SIP parameters.
- 4. Click Save to enable the settings.

FTP Settings

Steps

1. Click **Network** \rightarrow **Advanced** \rightarrow **FTP** to enter the settings page.

✓ Enable FTP

Server Type	Server IP Address	~
Server IP Address	0.0.0.0	
Port	21	
Enable Anonymous		
User Name		
Password		
Directory Structure	Save in the child directory	~
Parent Directory	Building No. & Unit No.	~
Child Directory	Time	~

Picture Naming Rules

Delimiter	_	
Named Item	Option1	\checkmark
Named Element	Time	\checkmark



Figure 6-9 FTP Settings

- 2. Check Enable FTP.
- 3. Select Server Type.
- 4. Input the Server IP Address and Port.
- 5. Configure the FTP Settings, and the user name and password are required for the server login.
- 6. Set the Directory Structure, Parent Directory and Child Directory.
- 7. Set the picture naming rules.
- 8. Click Save to enable the settings.

6.4.4 Video & Audio Settings

Video Parameters

Steps

1. Click Video/Audio → Video to enter the settings page.

Resolution 12	1eo&Audio 80*720P	
	80*720P	10
Pitrata Turpa		•
bitrate Type Val	riable •	•
Video Quality Me	dium	•
Frame Rate 25	,	/ fps
Max. Bitrate 204	8	Kbps
Video Encoding H.2	264	•
I Frame Interval 50		

Figure 6-10 Video Parameters

- 2. Select the Stream Type.
- **3.** Configure the video parameters.

Stream Type

Select the stream type to main stream or sub stream.

Video Type

Select the stream type to video stream, or video & audio composite stream. The audio signal will be recorded only when the **Video Type** is **Video & Audio**.

The video type is video & audio read only by default.

Resolution

Select the resolution of the video output.

Bitrate Type

Select the bitrate type as constant or variable.

Video Quality

When bitrate type is selected as Variable, 6 levels of video quality are selectable.

Frame Rate

Set the frame rate. The frame rate is to describe the frequency at which the video stream is updated and it is measured by frames per second (fps). A higher frame rate is advantageous when there is movement in the video stream, as it maintains image quality throughout.

Max. Bitrate

Set the max. bitrate from 32 to 16384 Kbps. The higher value corresponds to the higher video quality, but the better bandwidth is required.

Video Encoding

The device supports H.264.

I Frame Interval

Set I Frame Interval from 1 to 400. **4.** Click **Save** to save the settings.

Audio Parameters

Steps

1. Click Video/Audio → Audio to enter the settings page.

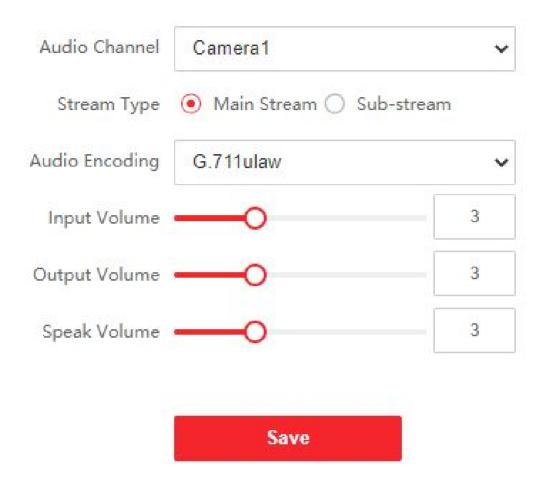


Figure 6-11 Audio Settings

2. Configure the stream type and the audio encoding type.

Audio Channel

Select the audio channel to adjust the audio parameters.

Stream Type

Select the stream type to main stream or sub stream.

Audio Encoding

The device support G.711ulaw and G.711 alaw.

3. Adjust the Input Volume, Output Volume and Speak Volume.

iNote

Available range of volume: 0 to 10.

4. Click Save to save the settings.

6.4.5 Image Settings

Display Settings

Configure the image adjustment, backlight settings and other parameters in display settings.

Steps

1. Click Image \rightarrow Display Settings to enter the display settings page.

Video Standard	PAL(50HZ)	V			
WDR	Disable	\checkmark			
Basic Parameter					
12 Alexandre					Default
			Image Adju	Brightness	50
			Day/Night S	Contrast	50
A BUR		THE STATE	Backlight	Saturation	50
	A starting			Sharpness	50
and the second		A second			
		. 0			

Figure 6-12 Display Settings

- 2. Select the Video Standard.
- 3. Select to enable or disable WDR.

iNote

Wide Dynamic Range can be used when there is a high contrast of the bright area and the dark area of the scene.

4. Set the basic parameters.

Brightness

Brightness describes bright of the image, which ranges from 1 to 100.

Contrast

Contrast describes the contrast of the image, which ranges from 1 to 100.

Saturation

Saturation describes the colorfulness of the image color, which ranges from 1 to 100.

Sharpness

Sharpness describes the edge contrast of the image, which ranges from 1 to 100. **5.** Set the **Day/Night Switch**.

			Default
Image Adjus	Day/Night Switch	Auto	\checkmark
Day/Night	Sensitivity	4	\checkmark
Backlight			

Figure 6-13 Day/Night Switch

- Set Daytime or Night.
- Set the mode as **Auto** and edit the sensitivity according to your needs.
- Set the mode as **Scheduled-Switch**. Set the start time and end time.
- 6. Set the backlight parameters.

			Default
Image Adjustment		Enable BLC	
Day/Night Switch	BLC Area	Center	\checkmark
Backlight			

Figure 6-14 Backlight

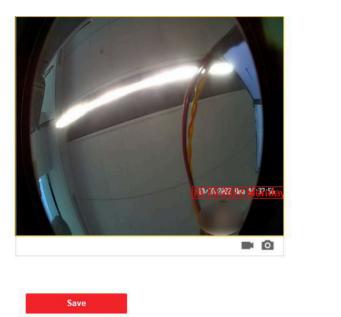
- 1) Check to enable BLC.
- 2) Select BLC Area.

OSD Settings

You can customize the camera name, time/date format on the live view.

Steps

1. Click **Image** \rightarrow **OSD** to enter the settings page.



Display Name		
Display Date		
Display Week		
Camera Name	Camera 01	
Time Format	24-hour	~
Date Format	MM/DD/YYYY	~

Figure 6-15 OSD

- 2. Check to enable Display Name, Display Date or Display Week at your actual needs.
- 3. Edit the Camera Name.

iNote

You can edit the camera name only when **Display Name** is enabled.

- 4. Select from the drop-down list to set the Time Format and Date Format.
- 5. Click Save to enable the settings.

Target Cropping

Steps

- **1.** Click **Image** \rightarrow **Crop** to enter the page.
- 2. Check Enable Target Cropping to enable the function.
- 3. Click 👩 to capture photo.
- 4. Click 🖿 to start recording.
- 5. Select Cropping Resolution.
- 6. Click Save.

iNote

- You can select Cropping Resolution as 704*576, 1280*720, or 1920*1080.
- You can zoom in or zoom out the image by selecting **Cropping Resolution** after clicking **Save**.

6.4.6 Event Settings

Motion Detection

Motion detection detects the moving objects in the configured security area, and a series of actions can be taken when the alarm is triggered.

Steps

1. Click **Event** \rightarrow **Basic Event** \rightarrow **Motion** to enter the settings page.

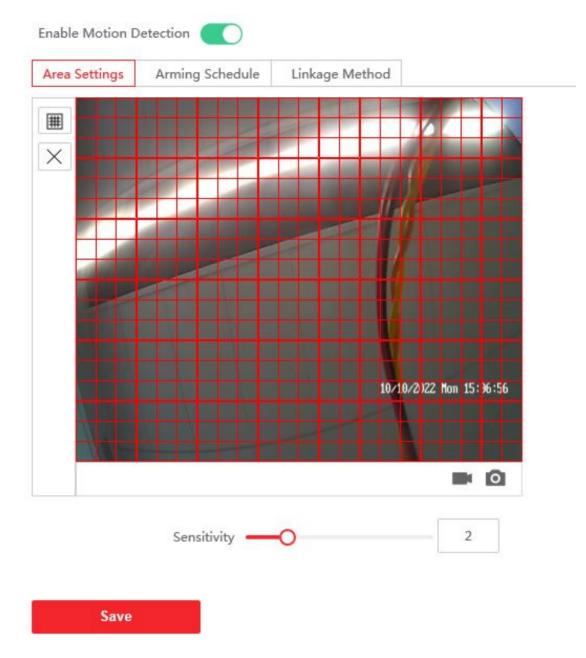


Figure 6-16 Motion Detection

- 2. Click to Enable Motion Detection.
- 3. Click Draw Area. Click and drag to draw a motion detection area.

Clear Area Click Clear All to clear all of the areas.

Adjust Sensitivity Move the slider to set the sensitivity of the detection.

- 4. Click Arming Schedule to edit the arming schedule.
- 5. Click on the time bar and drag to select the time period. Click Save to save the settings.

Delete Schedule Click **Delete** to delete the current arming schedule.

6. Click Linkage Method to enable the linkages.

Notify Security Center

Send an exception or alarm signal to the remote management software when an event occurs.

7. Click Save to enable the settings.

Event Linkage

Steps

1. Click **Event** \rightarrow **Basic Event** \rightarrow **Event Linkage** to enter the settings page.

Major Type	Device Event	\checkmark
Minor Type	Tampering Alarm	\checkmark
🔽 Normal Linkage		
Notify Surveillance Cent	er	
Save		

Figure 6-17 Event Linkage

- 2. Select the Major Type as Device Event or Door Event.
- **3.** Select the type of the **Normal Linkage** for the event.
- 4. Click Save to enable the settings.

6.4.7 Schedule Settings

You can create call schedule, or else the device will call indoor station all day by default.

Steps

- **1.** Click Schedule \rightarrow Video Intercom \rightarrow Call Schedule .
- 2. Click the next row below Enable Indoor Station All Day by Default.
- 3. Enter Schedule Name.
- 4. Select Call Type.
- 5. Set Weekly Schedule.
 - 1) Click Weekly Schedule.

Schedule Name	TemplatePlan1	
Call Type	Indoor Station	
Time Settings	Weekly Schedule Holiday Schedule	
	X Delete all	
	0 2 4 6 8 10 12 14 16 18 20 22 24 Mond	
	0 2 4 5 8 10 12 14 16 18 20 22 24 Tuesd	
	0 2 4 6 8 10 12 14 16 18 20 22 24 Wedn	
	0 2 4 6 8 10 12 14 16 18 20 22 24 Thurs	
	0 2 4 6 8 10 12 14 16 18 20 22 24 Friday	
	0 2 4 6 8 10 12 14 16 18 20 22 24 Satur	
	0 2 4 6 8 10 12 14 16 18 20 22 24 Sunday	

Figure 6-18 Weekly Schedule

- 2) Drag mouse to set the schedule according to the actual needs.
- 3) **Optional:** Click the copy icon to copy the schedule to other days according to the actual needs.
- 4) Click Save.
- 6. Set Holiday Schedule.
 - 1) Click Holiday Schedule.

Schedule Name	TemplatePlan1			
Call Type	Indoor Station	Center		
Time Settings	Weekly Schedule	Holiday Schedule		
	+ Add			
	No. Start Time	End Time	Time Period	Operation

Figure 6-19 Holiday Schedule

- 2) Click Add.
- 3) Set Start Time and End Time.
- 4) Select Call Type.
- 5) Drag mouse to set the schedule according to the actual needs.
- 6) Click **OK**.
- 7) You can edit or delete the schedule according to the actual needs.
- 8) Click Save.

iNote

The holiday schedule have higher priority than weekly schedule when you set the two schedule at the same time.

6.4.8 Intercom Settings

Device No. Configuration

Set the No. of the device, and linked devices can build a communication.

Steps

1. Click Intercom \rightarrow Device No. to enter the settings page.

Device Type	Door Station	~
Floor No.	1	~
Door Station No.	0	
Advanced Settings		^
Community No.	1	
Building No.	1	
Unit No.	1	
	Save	

Figure 6-20 Device No. Settings

- 2. Select the device type from the drop-down list, and set the corresponding information.
- 3. Click Save to enable the device number configuration.

iNote

- For main door station (D series or V series), the serial No. is 0.
- For sub door station (D series or V series), the serial No. cannot be 0. Serial No. ranges from 1 to 99.
- For each villa or building, at least one main door station (D series or V series) should be configured, and one sub door stations (D series or V series) can be customized.
- For one main door station (D series or V series), up to 8 sub door stations can be configured.

Linked Network Settings

Steps

1. Click Intercom → Session Settings to enter the settings page.

	Save	
Enable Protocol 1.0		
Private Server IP	0.0.0.0	
Main Station IP	0.0.0.0	
Registration Password		

Figure 6-21 Session Settings

- 2. Set Registration Password.
- 3. Set Main Station IP and Video Intercom Server IP.
- 4. Click to enable Protocol 1.0.
- 5. Click Save to enable the settings.

Password Settings

Set public password.

Click Intercom → Password Settings to enter the page.

Click **Add** to add password.

AddPublic Passwo	ord1			×
Password				
Unlock Permission	• Lock 1	O Lock 2		
Remarks	Enter			
			ОК	Cancel

Figure 6-22 Add Password

Set password and remarks and click to enable electric lock. Click **Save** to save the settings.

Call Settings

Go to Intercom \rightarrow Call Settings to enter the page.

Configure Max. Call Communication, Max. Message Duration and Max. Ring Duration, and click Save.

i Note

- Max. call duration between the module indoor station and client ranges from 90 s to 120 s. The call will end automatically when the actual calling duration is longer than the configured one.
- Max. message duration ranges from 30 s to 60 s. The message will end automatically when the actual message duration is longer than the configured one.
- Max. ring duration ranges from 65 s to 255 s.

Ring-Back Tone Settings

Click Intercom → Ringbacktone Settings to enter the settings page.

Click Add to select the ring tone from PC.

iNote

Available Audio Format: WAV、 AAC, Size: Less than 600 KB, Sample Rate: 8000Hz, Mono.

Press Button to Call

Steps

- **1.** Go to Intercom \rightarrow Press Button to Call to enter the settings page.
- 2. Select Main Unit or Sub Module as the button call target.

iNote

If you select **Main Unit**, you should configure **Button Settings** and select **Link Time Schedule** as Template Plan 1 or Enable Indoor Station All Day by Default.

3. Click Save to enable the settings.

I/O Settings

Steps

- **1.** Click Intercom \rightarrow I/O Settings to enter the I/O input and output settings page.
- 2. Select I/O input No., input mode, output No., and output mode.
- 3. Click Save to enable the settings.

iNote

- For door station, there are 4 I/O input terminals. By default, Terminal 1 and 2 correspond to Door Status. Terminal 3 and 4 correspond to interfaces of Door Switch.
- For door station, there are 2 I/O Output Terminals. Terminal 1 and 2 correspond to Door interfaces (NO1/COM/NC1; NO2/COM/NC2) of door station. Door 1 is enabled by default. You can enable/disable IO Out according to needs.

Sub Module Configuration

Steps

- 1. Click Intercom → Sub Module Configuration , and you can view the sub module information, including No., module type, status, and version.
- 2. Click 🐵 to edit the sub module.

Display Module

- Slide to adjust Screen Backlight Brightness.
- Slide Enable Buzzer to enable the function.

Touch-Display Module

- Slide to adjust Screen Backlight Brightness.
- Slide **Enable Buzzer** to enable the function.
- Select Address Book Display Mode according to actual needs.
- Enable Homepage Shortcut Dial, you can tap contact on the main page to call.
- Click Add to add custom buttons.

PMR Module

Click to enable power consumption selection.

You can select **8 W**, **6 W** or **4 W** for the PMR Module.

iNote

If the system power goes off, an external power supply of 12 V, 2 A for the main unit is necessary.

iNote

- The module address is used to differentiate the sub modules. See *Configure Sub Module Address* for detailed configuration instructions.
- For the other sub modules (indicator module, keypad module and card reader module), it prompts **Not supported**.
- KK module and alarm in module belong to nametag modules.
- The room No. for the main unit's call button is 1 by default; and the room No. for other call buttons will start with 2. The number will increase continuously. For example, the room No. of

the first nametag module range from 2~7, the room No. of next nametag module will range from 8~13.

Number Settings

Link the room No. and SIP numbers.

Click **Number Settings** to enter the page.

 H Add
 IDelete

 No.
 Room No.
 SIP Number
 Operation

Figure 6-23 Number Settings

Click Add, set the Room No. and SIP numbers in the pop-up dialog box.

6.4.9 Access Control Settings

Door Parameters

Set the parameters of the door which is linked to the device.

Steps

1. Click Access Control → Door Parameters to enter the settings page.

Door No.	Door1		~	
Name	Door1			
Open Duration	2			s
Relay reverse	⊖ on	 Disable 		
		Save		

Figure 6-24 Door Parameters

- 2. Select Door No., and edit the Name.
- **3.** Set **Open Duration**. When the time to open over the open duration you set, the door will be locked again.
- 4. Select Relay Reverse as ON or Disable.
- 5. Click Save to enable the settings.

Elevator Control

Before You Start

Make sure that the door station is in the mode of main door station. Only the main door station supports elevator control function.

Steps

1. Click Access Control → Elevator Control Parameter to enter the settings page.

Enable Elevator Control	2	
Elevator No.	Elevator No.1	~
Elevator Controller Type		~
Interface Type	Network Interface	~
Negative Floor Capacity	0	
Alarm Receiver Type	IP	~
Server IP Address		
Port		
User Name		
Password		



Figure 6-25 Elevator Control

- **2.** Check to enable elevator control function.
- 3. Select an Elevator No., and select an elevator controller.
- 4. Select Interface Type.
- 5. Enter Negative Floor Capacity, and select Alarm Receiver Type.
- 6. Enter the elevator controller's Server IP Address, Port No., User Name, and Password.
- 7. Click Save to enable the settings.

iNote

- Up to 4 elevator controllers can be connected to one door station.
- Up to 10 negative floors can be added.
- Make sure the interface types of elevator controllers, which are connected to the same door station are consistent.

Chapter 7 Configuration via Client Software

7.1 Device Management

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

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

7.1.1 Add Online Device

Before You Start

Make sure the device to be added is in the same subnet with your computer. Otherwise, please edit network parameters first.

Steps

- 1. Click Online Device to select an active online device.
- 2. Click Add.
- **3.** Enter corresponding information, and click **Add**.

Add				×
Adding Mode	IP/Domain	🔿 IP Segm	ent 🔿	Cloud P2P
	O EHome		0	Batch Import
Add Offline Device				
* Name	10.6.112.48			
* Address	10.6.112.48			
* Port	8000			
* User Name	admin			
* Password	•••••			
Synchronize Time				
Import to Group				
	 Set the device channels conr 	e name as the gro nected to the devi	up name and ce to the grou	add all the ıp.
	Add and New	Add	Cancel	

Figure 7-1 Add to the Client

7.1.2 Add Device by IP Address

Steps

- 1. Click +Add to pop up the adding devices dialog box.
- 2. Select IP/Domain as Adding Mode.
- 3. Enter corresponding information.
- 4. Click Add.

7.1.3 Add Device by IP Segment

You can add many devices at once whose IP addresses are among the IP segment.

Steps

- 1. Click +Add to pop up the dialog box.
- 2. Select IP Segment as Adding Mode.
- **3.** Enter corresponding information, and click **Add**.

7.2 Live View via Door Station

Steps

- 1. On the main page of the client software, click Main View to enter the Live View page.
- 2. In the left list of the window, double-click the device IP or click the play icon to live view.
- **3. Optional:** On the Live View page, control-click and select **Capture** to get the picture of the live view.

7.3 Parameters Settings

Click **Configuration** to set the parameters of the device.

Remote configuration in iVMS-4200 and Batch Configuration Tool is the same as that in Web. Here takes the configuration in web for example.

iNote

Run the browser, click $\square \rightarrow$ Internet Options \rightarrow Security to disable the Protected Mode.

7.3.1 Device Management

You can manage the linked device on the page.

Click Device Management to enter the settings page.

+ Add D- Import	🛱 Export 🗊 Delete 🖉	Synchronize 🧭 Refre	h						Status All	Device Type All	V
🗆 No.	Device Type	IP Address	Serial No.	Model	Current Version	Floor No.	Room No.	No.	User Name	Network Status	Operation
1	Indoor Station	1001001	-	10.000	1.000	1	1	~	admin	A Offline	2 1

Figure 7-2 Device Management

Add Device

- Click **Add** to add the indoor station, sub door station or decoder station. Enter the parameters and click **OK** to add.
- Click **Import**. Enter the information of the device in the template to import devices in batch.

Export

Click **Export** to export the information to the PC.

Delete

Select the device and click **Delete** to remove the selected device from the list.

Synchronize

Click Synchronize and enable Synchronize for device synchronization.

iNote

When enabling the function, the activated devices will synchronize parameters. Inactivated devices synchronize parameters whether the function is enabled or not.

Refresh

Click **Refresh** to get the device information.

Optional: Set device information.

- Click
 i to edit device information.
- Click
 to delete device information from the list.
- Select Status and Device Type to search devices.

7.3.2 Local Parameters Settings

You can configure the parameters of the live view, record files and captured pictures. The record files and captured pictures are the ones you record and capture by using the web browser. You can also set and view the saving paths of the captured pictures and recorded videos on the PC that running the web browser.

Live View Parameters			
Stream Type	 Main Stream 	○ Sub-stream	
Play Performance	 Shortest Delay 	 Balanced 	⊖ Fluent
Auto Start Live View	⊖ Yes	No	
Image Format	• JPEG	⊖ BMP	
Record File Settings			
Record File Size	0.05604		
Record File Size	● 256M	○ 512M	🔵 1G
Save record files to	undefined	○ 512M) 1G
		○ 512M	
Save record files to		○ 512M	
Save record files to Picture and Clip Settings	undefined	○ 512M	Open

Figure 7-3 Local Parameters

Live View Parameters

Stream Type

Set the stream type as Main Stream or Sub-stream.

Play Performance

Set the live view performance to Shortest Delay, Balanced or Fluent.

Auto Start Live View

Check Yes to enable the function.

Image Format

Select the image format for picture capture.

Click **Save** to enable the settings.

Record File Parameters

Record File Size

Select the packed size of the manually recorded and downloaded video files to **256M**, **512M** or **1G**. After the selection, the maximum record file size is the value you selected.

Save record files to

Set the saving path for the manually recorded video files.

Click **Save** to enable the settings.

Picture and Clip Settings

Save snapshots in live view to

Set the saving path of the manually captured pictures in live view mode.

iNote

You can click **Browse** to change the directory for saving the clips and pictures, and click **Open** to open the set folder of clips and picture saving.

Click **Save** to enable the settings.

7.3.3 System Settings

Follow the instructions below to configure the system settings, include System Settings, Maintenance, Security, and User Management, etc.

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

Basic Information

Click **System Settings** → **Basic Information** to enter the settings page. On the page, you can edit **Device Name** and **Device No.** Set the **Language** according to your needs. You can view the quantities of added users and cards in **Capacity**. Click **Save** to enable the settings.

Time Settings

Click System Settings \rightarrow Time Settings to enter the settings page. Select the Time Zone of your location from the drop-down list.

• Enable NTP, set the Server Address, NTP Port and Interval.

• Enable Manual Time Sync., set the time manually or check the Sync. with computer time.

Click Save to enable the settings.

DST

Click System Settings \rightarrow DST to check Enable DST. Set the parameters according to your needs and click Save to enable the settings.

About

Click System Settings → About and click View Licenses to view open source software licenses.

Maintenance

Click Maintenance → Upgrade & Maintenance to enter the settings page.

Reboot	
	Reboot the device.
Restore Parameters	
	Default Reset all the parameters, except the IP parameters and user information, to the default settings.
	Restore All Restore all parameters to default settings.
Export	
	Device Parameters V Export
Import Config File	
Device Parameters	Import Import
Upgrade	
Upgrade Settings	Controller 💌
Import File	Upgrade
	ote: The upgrading process will be 1 to 10 minutes, please don't disconnect power to the device during the process. The device reboots automatically after upgrading

Figure 7-4 Upgrade & Maintenance

- Reboot: Click **Reboot** to reboot the device.
- Default

Click **Default** to reset all the parameters, except the IP parameters and user information, to the default settings.

Restore All

Click Restore All to restore all parameters to default settings.

- Export parameters:
 - 1. Select **Device Parameters**, and click **Export** to pop up the dialog box.
 - 2. Set and confirm the encryption password.
 - 3. Click **OK** to export parameters.
- Import Config. File:
 - 1. Click browse icon to select the configuration file.
 - 2. Click **Import** and enter the encryption password to import.
- Upgrade: Click browse icon to select the upgrade file.

iNote

The upgrading process will last 1 to 10 minutes, do not power off during the upgrading. The device reboots automatically after upgrading.

Security Service

Click **Security** \rightarrow **Security** Service to enter the settings page. On the page, you can enable SSH according to your actual needs.

Click Save to enable the settings.

User Management

Click **User Management** to enter the settings page. Administrator can edit the permission for the users.

iNote

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.

Online Users

Click **User Management** \rightarrow **Online Users** to enter the page. Click **Refresh** to get the present information.

Arming/Disarming Information

Click **User Management** → **Arming/Disarming Information** to view the information. Click **Refresh** to get the present information.

7.3.4 Network Settings

TCP/IP Settings

TCP/IP settings must be properly configured before you operate the device over network. The device supports IPv4.

Steps

1. Click **Network** → **Basic Settings** → **TCP/IP** to enter the settings page.

DHCP		
Network Card	Network Card1	~
IPv4 Address		
IPv4 Subnet Mask		
IPv4 Default Gateway		
Mac Address		
MTU		

DNS Server

Preferred DNS Server	
Alternate DNS Server	



Figure 7-5 TCP/IP Settings

- 2. Configure the network parameters.
 - Enable **DHCP** and the device will get the parameters automatically.
 - Disable DHCP and set the IPv4 Address, IPv4 Subnet Mask and IPv4 Default Gateway manually.
- **3.** Configure the corresponding DNS server parameters.
- 4. Click Save to enable the settings.

Port Settings

Steps

1. Click **Network** \rightarrow **Basic Settings** \rightarrow **Port** to enter the settings page.

HTTP Port	
RTSP Port	
HTTPS Port	
Server Port	
	Save

Figure 7-6 Port Settings

2. Set the ports of the device.

HTTP Port

The default port number is 80, and it can be changed to any port No. which is not occupied.

RTSP Port

The default port number is 554.

HTTPS Port

The default port number is 443, and it can be changed to any port No. which is not occupied.

Server Port

The default server port number is 8000, and it can be changed to any port No. ranges from 2000 to 65535.

3. Click Save to enable the settings.

SIP Setting

Steps

1. Click **Network** \rightarrow **Basic Settings** \rightarrow **SIP** to enter the settings page.

Enable VOIP Gateway		
Register User Name		
Registration Password		
Server Address		
Server Port	5060	
Expiry Time	60	minute(s)
Register Status	Not Registered	
Number		
Display User Name		
_		
	Save	

Figure 7-7 SIP Settings

- 2. Check Enable VOIP Gateway.
- **3.** Configure the SIP parameters.
- 4. Click Save to enable the settings.

FTP Settings

Steps

1. Click **Network** \rightarrow **Advanced** \rightarrow **FTP** to enter the settings page.

✓ Enable FTP

Server Type	Server IP Address	~
Server IP Address	0.0.0.0	
Port	21	
Enable Anonymous		
User Name		
Password		
Directory Structure	Save in the child directory	~
Parent Directory	Building No. & Unit No.	\checkmark
Child Directory	Time	\checkmark

Picture Naming Rules

Delimiter	_	
Named Item	Option1	\checkmark
Named Element	Time	\checkmark



Figure 7-8 FTP Settings

- 2. Check Enable FTP.
- 3. Select Server Type.
- 4. Input the Server IP Address and Port.
- 5. Configure the FTP Settings, and the user name and password are required for the server login.
- 6. Set the Directory Structure, Parent Directory and Child Directory.
- 7. Set the picture naming rules.
- 8. Click Save to enable the settings.

7.3.5 Video & Audio Settings

Video Parameters

Steps

1. Click Video/Audio → Video to enter the settings page.

Stream Type	Main Stream	~	
Video Type	Video&Audio	V	
Resolution	Resolution 1280*720P		
Bitrate Type	Variable	~	
Video Quality	Medium	~	
Frame Rate	Frame Rate 25		fps
Max. Bitrate	2048		Kbps
Video Encoding	H.264	~	
I Frame Interval	50		

Figure 7-9 Video Parameters

- 2. Select the Stream Type.
- **3.** Configure the video parameters.

Stream Type

Select the stream type to main stream or sub stream.

Video Type

Select the stream type to video stream, or video & audio composite stream. The audio signal will be recorded only when the **Video Type** is **Video & Audio**.

The video type is video & audio read only by default.

Resolution

Select the resolution of the video output.

Bitrate Type

Select the bitrate type as constant or variable.

Video Quality

When bitrate type is selected as Variable, 6 levels of video quality are selectable.

Frame Rate

Set the frame rate. The frame rate is to describe the frequency at which the video stream is updated and it is measured by frames per second (fps). A higher frame rate is advantageous when there is movement in the video stream, as it maintains image quality throughout.

Max. Bitrate

Set the max. bitrate from 32 to 16384 Kbps. The higher value corresponds to the higher video quality, but the better bandwidth is required.

Video Encoding

The device supports H.264.

I Frame Interval

Set I Frame Interval from 1 to 400. **4.** Click **Save** to save the settings.

Audio Parameters

Steps

1. Click Video/Audio → Audio to enter the settings page.

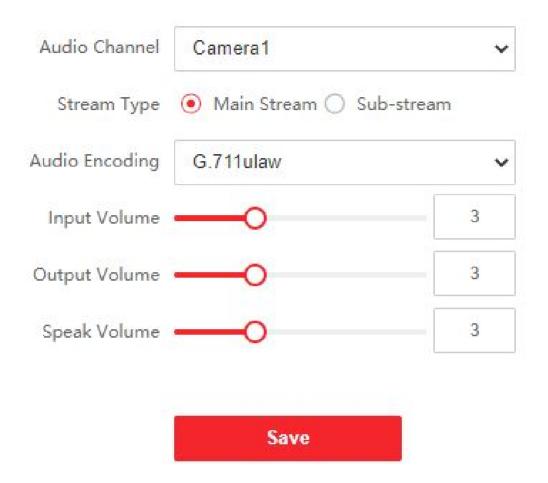


Figure 7-10 Audio Settings

2. Configure the stream type and the audio encoding type.

Audio Channel

Select the audio channel to adjust the audio parameters.

Stream Type

Select the stream type to main stream or sub stream.

Audio Encoding

The device support G.711ulaw and G.711 alaw.

3. Adjust the Input Volume, Output Volume and Speak Volume.

iNote

Available range of volume: 0 to 10.

4. Click Save to save the settings.

7.3.6 Image Settings

Display Settings

Configure the image adjustment, backlight settings and other parameters in display settings.

Steps

1. Click **Image** \rightarrow **Display Settings** to enter the display settings page.

	PAL(50HZ) Disable	v			
Basic Parameter					Default
			Image Adju Day/Night S Backlight	Brightness O Contrast O Saturation O Sharpness O	50 50 50 50 50

Figure 7-11 Display Settings

- 2. Select the Video Standard.
- 3. Select to enable or disable WDR.

iNote

Wide Dynamic Range can be used when there is a high contrast of the bright area and the dark area of the scene.

4. Set the basic parameters.

Brightness

Brightness describes bright of the image, which ranges from 1 to 100.

Contrast

Contrast describes the contrast of the image, which ranges from 1 to 100.

Saturation

Saturation describes the colorfulness of the image color, which ranges from 1 to 100.

Sharpness

Sharpness describes the edge contrast of the image, which ranges from 1 to 100. **5.** Set the **Day/Night Switch**.

			Default
Image Adjus	Day/Night Switch	Auto	\checkmark
Day/Night	Sensitivity	4	\checkmark
Backlight			

Figure 7-12 Day/Night Switch

- Set Daytime or Night.
- Set the mode as **Auto** and edit the sensitivity according to your needs.
- Set the mode as **Scheduled-Switch**. Set the start time and end time.
- 6. Set the backlight parameters.

			Default
Image Adjustment		Enable BLC	
Day/Night Switch	BLC Area	Center	\checkmark
Backlight			

Figure 7-13 Backlight

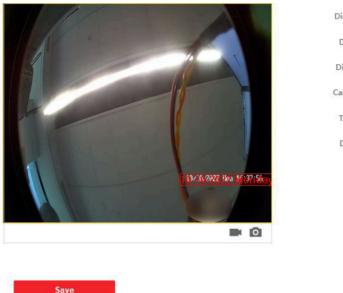
- 1) Check to enable BLC.
- 2) Select BLC Area.

OSD Settings

You can customize the camera name, time/date format on the live view.

Steps

1. Click **Image** \rightarrow **OSD** to enter the settings page.



Display Name		
Display Date		
Display Week		
Camera Name	Camera 01	
Time Format	24-hour	~
Date Format	MM/DD/YYYY	~

Figure 7-14 OSD

- 2. Check to enable Display Name, Display Date or Display Week at your actual needs.
- 3. Edit the Camera Name.

iNote

You can edit the camera name only when **Display Name** is enabled.

- 4. Select from the drop-down list to set the Time Format and Date Format.
- 5. Click Save to enable the settings.

Target Cropping

Steps

- **1.** Click **Image** \rightarrow **Crop** to enter the page.
- 2. Check Enable Target Cropping to enable the function.
- 3. Click 👩 to capture photo.
- 4. Click 🖿 to start recording.
- 5. Select Cropping Resolution.
- 6. Click Save.

iNote

- You can select Cropping Resolution as 704*576, 1280*720, or 1920*1080.
- You can zoom in or zoom out the image by selecting **Cropping Resolution** after clicking **Save**.

7.3.7 Schedule Settings

You can create call schedule, or else the device will call indoor station all day by default.

Steps

- 1. Click Schedule → Video Intercom → Call Schedule .
- 2. Click the next row below Enable Indoor Station All Day by Default.
- 3. Enter Schedule Name.
- 4. Select Call Type.
- 5. Set Weekly Schedule.

1) Click Weekly Schedule.

Schedule Name	TemplatePlan1
Call Type	Indoor Station
Time Settings	Weekly Schedule Holiday Schedule
	X Delete all
	0 2 4 6 8 10 12 14 16 18 20 22 24 Mond
	0 2 4 6 8 10 12 14 16 18 20 22 24 Tuesd
	0 2 4 6 8 10 12 14 16 18 20 22 24 Wedn
	0 2 4 6 8 10 12 14 16 18 20 22 24 Thurs
	0 2 4 5 8 10 12 14 16 18 20 22 24 Friday
	0 2 4 6 8 10 12 14 16 18 20 22 24 Satur
	0 2 4 6 8 10 12 14 16 18 20 22 24 Sunday

Figure 7-15 Weekly Schedule

- 2) Drag mouse to set the schedule according to the actual needs.
- 3) **Optional:** Click the copy icon to copy the schedule to other days according to the actual needs.
- 4) Click Save.
- 6. Set Holiday Schedule.
 - 1) Click Holiday Schedule.

Schedule Name	TemplatePlan1			
Call Type	Indoor Station	Center		
Time Settings	Weekly Schedule	Holiday Schedule	_	
	+ Add 🛍 Clear			
	No. Start Time	End Time	Time Period	Operation

Figure 7-16 Holiday Schedule

- 2) Click Add.
- 3) Set Start Time and End Time.
- 4) Select Call Type.
- 5) Drag mouse to set the schedule according to the actual needs.
- 6) Click **OK**.
- 7) You can edit or delete the schedule according to the actual needs.
- 8) Click Save.

iNote

The holiday schedule have higher priority than weekly schedule when you set the two schedule at the same time.

7.3.8 Intercom Settings

Device No. Configuration

Set the No. of the device, and linked devices can build a communication.

Steps

1. Click Intercom \rightarrow Device No. to enter the settings page.

Device Type	Door Station	~
Floor No.	1	~
Door Station No.	0	
Advanced Settings		^
Community No.	1	
Building No.	1	
Unit No.	1	
	Save	

Figure 7-17 Device No. Settings

- 2. Select the device type from the drop-down list, and set the corresponding information.
- 3. Click Save to enable the device number configuration.

iNote

- For main door station (D series or V series), the serial No. is 0.
- For sub door station (D series or V series), the serial No. cannot be 0. Serial No. ranges from 1 to 99.
- For each villa or building, at least one main door station (D series or V series) should be configured, and one sub door stations (D series or V series) can be customized.
- For one main door station (D series or V series), up to 8 sub door stations can be configured.

Linked Network Settings

Steps

1. Click Intercom → Session Settings to enter the settings page.

Registration Password		
Main Station IP	0.0.0.0	
Private Server IP	0.0.0.0	
Enable Protocol 1.0		
	Save	

Figure 7-18 Session Settings

- 2. Set Registration Password.
- 3. Set Main Station IP and Video Intercom Server IP.
- **4.** Click to enable Protocol 1.0.
- 5. Click Save to enable the settings.

Call Settings

Go to Intercom \rightarrow Call Settings to enter the page.

Configure Max. Call Communication, Max. Message Duration and Max. Ring Duration, and click Save.

iNote

- Max. call duration between the module indoor station and client ranges from 90 s to 120 s. The call will end automatically when the actual calling duration is longer than the configured one.
- Max. message duration ranges from 30 s to 60 s. The message will end automatically when the actual message duration is longer than the configured one.
- Max. ring duration ranges from 65 s to 255 s.

Ring-Back Tone Settings

Click Intercom → Ringbacktone Settings to enter the settings page.

Click **Add** to select the ring tone from PC.

iNote

Available Audio Format: WAV、 AAC, Size: Less than 600 KB, Sample Rate: 8000Hz, Mono.

Press Button to Call

Steps

- **1.** Go to Intercom \rightarrow Press Button to Call to enter the settings page.
- 2. Select Main Unit or Sub Module as the button call target.

iNote

If you select **Main Unit**, you should configure **Button Settings** and select **Link Time Schedule** as Template Plan 1 or Enable Indoor Station All Day by Default.

3. Click Save to enable the settings.

Input and Output

Go to Intercom \rightarrow I/O Settings to enter the settings page.

I/O Input No.	Input1	\checkmark
Input	Door Status	\checkmark
I/O Output No.	Output1	\checkmark
Output	Electric Lock	\checkmark
	Save	

Figure 7-19 IO Input and Output

Select I/O Input No., Input, I/O Output No. and Output.

Click **Save** to enable the settings.

iNote

• I/O Input supports 4-channel inputs.

Table 7-1 I/O Input

I/O Input No.	Input
1	Door Status
2	Disable/Door Status
3	Exit Button
4	Disable/Exit Button

• I/O Output supports 2-channel outputs.

Table 7-2 I/O Output

I/O Output No.	Output
1	Electric Lock
2	Disable/Electric Lock

Sub Module Configuration

Steps

- 1. Click Intercom → Sub Module Configuration , and you can view the sub module information, including No., module type, status, and version.
- **2.** Click 🐵 to edit the sub module.

Display Module

- Slide to adjust Screen Backlight Brightness.
- Slide **Enable Buzzer** to enable the function.

Touch-Display Module

- Slide to adjust Screen Backlight Brightness.
- Slide **Enable Buzzer** to enable the function.
- Select Address Book Display Mode according to actual needs.
- Enable Homepage Shortcut Dial, you can tap contact on the main page to call.
- Click Add to add custom buttons.

PMR Module

Click to enable power consumption selection.

You can select **8 W**, **6 W** or **4 W** for the PMR Module.

iNote

If the system power goes off, an external power supply of 12 V, 2 A for the main unit is necessary.

- The module address is used to differentiate the sub modules. See *Configure Sub Module Address* for detailed configuration instructions.
- For the other sub modules (indicator module, keypad module and card reader module), it prompts **Not supported**.
- KK module and alarm in module belong to nametag modules.
- The room No. for the main unit's call button is 1 by default; and the room No. for other call buttons will start with 2. The number will increase continuously. For example, the room No. of the first nametag module range from 2~7, the room No. of next nametag module will range from 8~13.

Number Settings

Steps

- 1. Click Intercom → Number Settings , and you can view the No., room No., and SIP number.
- 2. Add the number.
 - 1) Click Add.
 - 2) Enter Room No., and SIP.
 - 3) **Optional:** Click **Add** to add SIP according to the actual needs.
 - 4) Click **OK**.
- 3. Optional: Click 🐵 to edit the number.

7.3.9 Access Control Settings

Permission Password

Steps

1. Click Access Control → Password Settings to enter the settings page.

Password Type		~
Password		
Confirm		
	Save	

Figure 7-20 Password Settings

- 2. Select Password Type.
- 3. Enter and confirm the password.
- 4. Click Save to enable the settings.

Door Parameters

Set the parameters of the door which is linked to the device.

Steps

1. Click **Access Control** → **Door Parameters** to enter the settings page.

Door No.	Door1		~	
Name	Door1			
Open Duration	2			s
Relay reverse	⊖ on	 Disable 		
		Save		

Figure 7-21 Door Parameters

- 2. Select Door No., and edit the Name.
- **3.** Set **Open Duration**. When the time to open over the open duration you set, the door will be locked again.
- 4. Select Relay Reverse as ON or Disable.
- 5. Click Save to enable the settings.

Card Security

Click Access Control \rightarrow Card Security to enter the settings page.

Slide to enable card encryption parameters.

Click Save to enable the settings.

Elevator Control

Before You Start

Make sure that the door station is in the mode of main door station. Only the main door station supports elevator control function.

Steps

1. Click Access Control → Elevator Control Parameter to enter the settings page.

Enable Elevator Control		
Elevator No.	Elevator No.1	~
Elevator Controller Type		~
Interface Type	Network Interface	~
Negative Floor Capacity	0	
Alarm Receiver Type	IP	~
Server IP Address		
Port		
User Name		
Password		



Figure 7-22 Elevator Control

- **2.** Check to enable elevator control function.
- 3. Select an Elevator No., and select an elevator controller.
- 4. Select Interface Type.
- 5. Enter Negative Floor Capacity, and select Alarm Receiver Type.
- 6. Enter the elevator controller's Server IP Address, Port No., User Name, and Password.
- 7. Click Save to enable the settings.

- Up to 4 elevator controllers can be connected to one door station.
- Up to 10 negative floors can be added.
- Make sure the interface types of elevator controllers, which are connected to the same door station are consistent.

7.4 Organization Management

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

7.4.1 Add Organization

Steps

- 1. In the organization list on the left, click +Add.
- 2. Enter the Organization Name as desired.
- 3. Click OK to save the adding.
- 4. Optional: 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.

iNote

Up to 10 levels of organizations can be created.

7.4.2 Modify and Delete Organization

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

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

iNote

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

7.5 Person Management

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

- Up to 2,000 persons can be added.
- Up to 5 cards can be added to each person.

7.5.1 Add Person

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

Steps

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

iNote

The Person No. will be generated automatically and is editable.

- 2. Set basic person information.
 - 1) Enter basic information: name, tel, birthday details, effective period and email address.

iNote

The length of person name should be less than 15 characters.

2) Click Add face to upload the photo.

_		
	•	
		NI - I -
		Note
\sim	\sim	I I OLC

The picture should be in *.jpg format.

Click Upload	Select the person picture from the local PC to upload it to the client.
Click Take Phone	Take the person's photo with the PC camera.

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

- **3.** Issue the card for the person.
- 1) Click **Credential** \rightarrow 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. Link the device to the person.
 - 1) Set the linked devices.

Linked Device

You can bind the indoor station to the person.

If you select **Analog Indoor Station** in the Linked Device, the **Door Station** field will display and you are required to select the door station to communicate with the analog indoor station.

Room No.

You can enter the room No. of the person.

- 2) Click **OK** to save the settings.
- 5. Click Add to save the settings.

7.5.2 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.

iNote

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

7.5.3 Import and Export Person Information

The person information can be imported and exported in batch.

Steps

- Exporting Person: You can export the added persons' information in Excel format to the local PC.
 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.

7.5.4 Get Person Information from Device

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

Steps

i Note

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

- **1.** In the organization list on the left, click to 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.

iNote

- 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.

7.5.5 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.

7.5.6 Issue Card in Batch

You can issue multiple cards for the person with no card issued in batch.

Steps

1. Click **Batch Issue Cards** to enter the dialog page. All the added person with no card issued will display in the Person(s) with No Card Issued list.

ls	sue Card in Bat	ch				×
	Issued: 0/1				🖯 Initialize	Settings
	Name	Person ID	State	Card No		
	nam	1	No Card Iss			

Figure 7-23 Issue Card in Batch

2. Click Settings.

Settings					×
Mode	Loca		Remo	ote	
Card Enrollment Station	DS_K1F1	00_D8E		-	
Card Type	Mifare C	Card		-	
Buzzing	×				
Card No. Type	RS-485/	Wiegand 34	4	-	
M1 Card Encryption					
		ОК		Cancel	

Figure 7-24 Card Settings

- 3. Select Card Type and Card No. Type.
- **4.** Click **OK** to save the settings.

Result

After issuing the card to the person, the person and card information will display in the Person(s) with Card Issued list.

7.5.7 Permission Settings

Add Permissions

Steps

- **1.** On the main page, click **Example 7** AccessControlInfo \rightarrow Access Group to enter the page.
- 2. Click +Add to pop up the adding dialog box.
- **3.** Configure the parameters.
 - 1) Enter the Name of the permission.
 - 2) Select the Template of the schedule.
 - 3) Check the person to **Selected** according to your needs.
- 4) Check the device to **Selected** according to your needs.
- 4. Click Save.
- 5. Check the permission and click Apply All to Device.

The status of the permission displays as **Applied**.

6. Optional: Click Applying Status to check the details.

Modify/Delete Permissions

On the page of the permission settings, click i to edit the parameters of the permission. Select one or more permissions, click **Delete** to remove the permissions.

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

Power Description

2-Wire Distributor

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

Modular Door Station

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

Model	Stable Power Consumption
DS-KD8003-IME2	4 W
DS-KD-KK	0.8 W
DS-KD-KP	1 W
DS-KD-DIS	2.5 W
DS-KD-E	0.8 W
DS-KD-M	0.8 W
DS-KD-INFO	1.5 W
DS-KD-PMR	8 W, 6 W or 4 W adjustable

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 \leq 16 W, we can support powering this device through KAD706 channel 6 or KAD704 channel 4.

Wire Testing Standards

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

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

Table A-1 Table A

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

