

HIKVISION INTERCOM – GENERAL RULES

Table of Contents

Setting started	2
Powering the Devices	2

PRODUCTS: HIKVISION INTERCOM, GENERATION 2

TOPICS COVERED IN THIS KBA: This guide covers the general rules for configuring a Hikvision Generation 2 intercom system using only iVMS. Configuration for this intercom system can also be done on the screen of the room stations with the easy step-by-step wizard. Sub door stations cannot be configured if using the wizard method. Ensure the screen has skipped the wizard if using this guide.

Tap/Click on the table of contents to go to your preferred page.

Door Station	2
Room Station	2
Network Configuration	2
Door Station	3
Master Station	3
Sub Station	3
Door Modules	4
Mounting Brackets	7
Room Station	8
Master Station	8
Sub Station	8
Hikconnect	9
Adding a device using the screen and QR code	9
Adding a device manually using iVMS	9
Adding a camera to a Room station	11
Adding a Door station to an NVR	11
Lift Controller	13
Cards	15
Enrolment card	15
iVMS	15

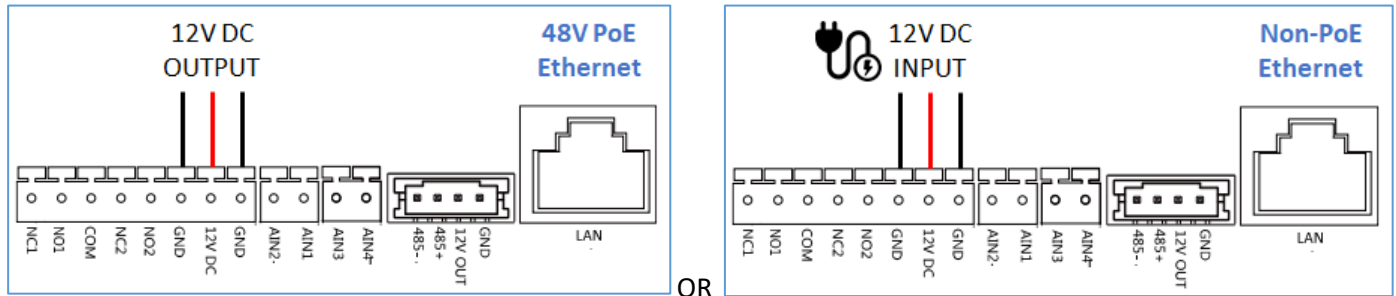
Setting started

Powering the Devices

The 2nd Generation of intercoms are powered by standard PoE (48v Power over Ethernet) or 12V DC and require an IP network connection, which can either be hardwired or wireless (depending on the model).

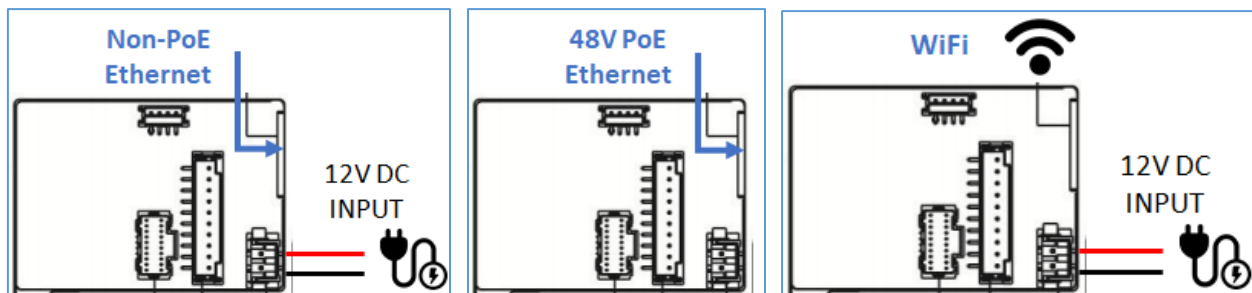
The previous generation of Hikvision intercoms required PoN (24v Power Over Network).

Door Station



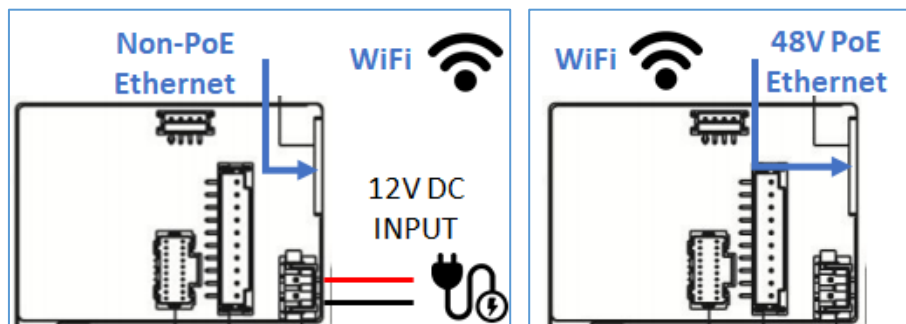
Never power a station with both PoE and 12V DC!

Room Station



Never power a station with both PoE and 12V DC!

For situations where strata will not cover the costs of data/internet traffic, the below options are available. The hardwired network will be for standalone calling between the door and room stations. The WiFi will be connected to an individual's WiFi network for Hik-connect app functionality.



Network Configuration

Please watch this video for network configuration. Manually copy/paste the link into the URL of a web browser, tap/click on the link or on the YouTube icon.

<https://www.youtube.com/watch?v=qB5OZYxxZ-s>



Door Station

Master Station

The Master door station does not function any differently to a Sub door station. It acts as a routing point for a Sub door station.

To make a door station a Master, place a **0** in *Intercom -> ID Configuration -> No.:* (Default setting)

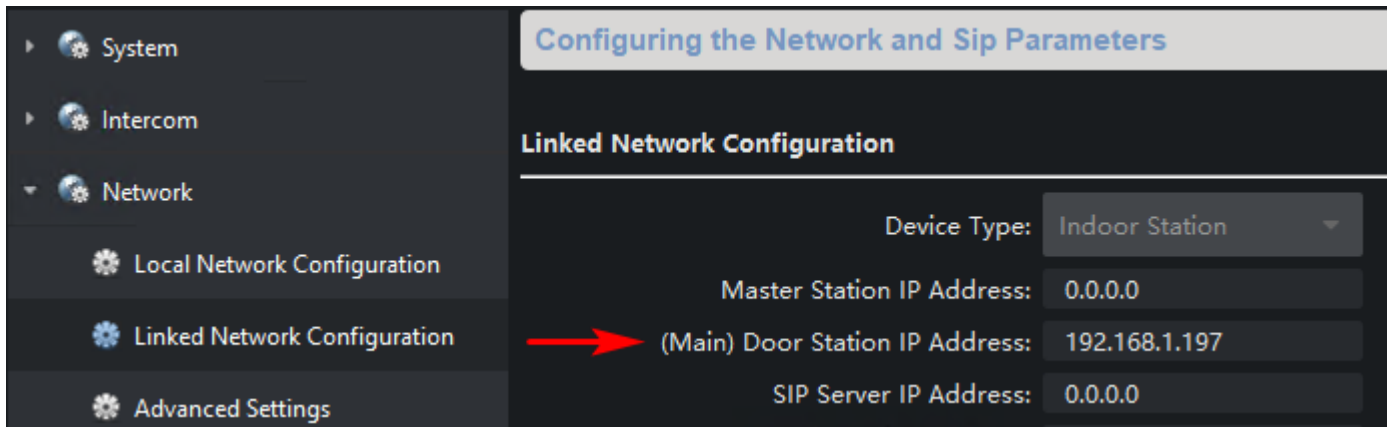
The screenshot shows the 'Configuring the Room Numbers' page in the HIKVISION web interface. The left sidebar has 'System' and 'Intercom' expanded, with 'ID Configuration' selected. The main panel shows 'Device No. Configuration' with the following fields: Device Type (Door Station), Project No. (1), Community No. (1), Building No. (1), Floor No. (1), and No. (0). A red arrow points to the 'No.' field. A 'Save' button is at the bottom right.

Sub Station

The Sub door stations will call the same room stations as their corresponding Master. There can be a maximum of 8 Sub door stations. To configure this, input anything between **1-8** in *Intercom -> ID Configuration -> No.:*

The screenshot shows the 'Configuring the Room Numbers' page in the HIKVISION web interface. The left sidebar has 'System' and 'Intercom' expanded, with 'ID Configuration' selected. The main panel shows 'Device No. Configuration' with the following fields: Device Type (Door Station), Project No. (1), Community No. (1), Building No. (1), Floor No. (1), and No. (1). A red arrow points to the 'No.' field. A 'Save' button is at the bottom right.

This will reboot. Once booted back up, it will now need to know the Master door station's IP address. This is done in *Network -> Linked Network Configuration -> (Main) Door Station IP address:*

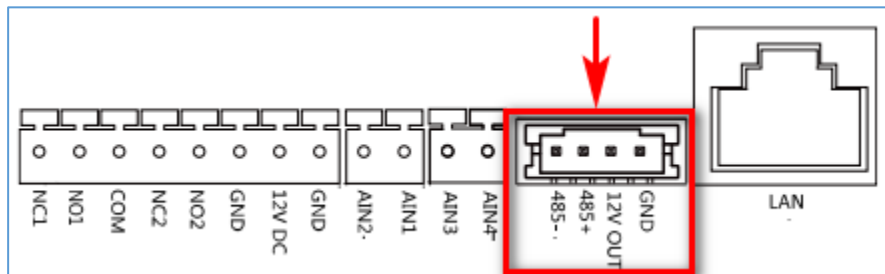


Door Modules

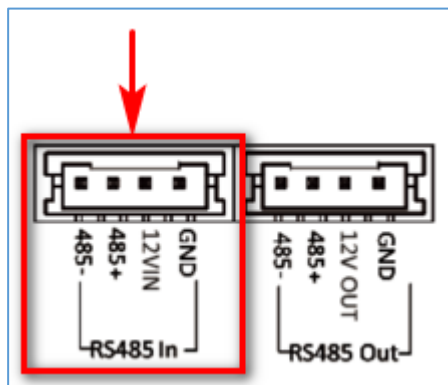
There are 5 different types of door modules. Display, Keypad, 6-button, Mifare Reader and a 3-status Indicator.

They connect to the Main door station with the RS-485 terminals.

Main Door unit



Module unit



The "Out" of the first module connects to the "In" of the second module and so on.

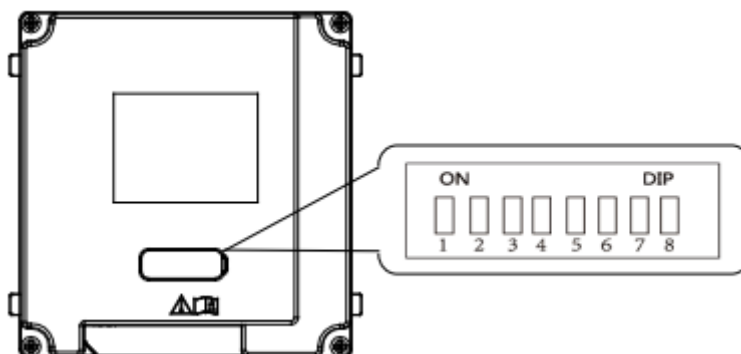
Cable



This is the cable that is used to connect door station modules together. They are provided with the mounting brackets, not with the modules.

Addressing

All modules have dipswitches that need to be addressed. Out of the box they are set to 0, which will not work.



Address 1	Address 2	Address 3	Address 4
ON 1 2 3 4 5 6 7 8 DIP	ON 1 2 3 4 5 6 7 8 DIP	ON 1 2 3 4 5 6 7 8 DIP	ON 1 2 3 4 5 6 7 8 DIP
Address 5	Address 6	Address 7	Address 8
ON 1 2 3 4 5 6 7 8 DIP	ON 1 2 3 4 5 6 7 8 DIP	ON 1 2 3 4 5 6 7 8 DIP	ON 1 2 3 4 5 6 7 8 DIP

The black square indicates that the dipswitch is on (up). If a dipswitch is blank, it means it is off (down).

The Main Door station can handle up to 8 modules. Only the 6 button module is programmable. Each button can have a room number assigned to it.

To change the room number it calls, go to *Intercom -> Sub Module -> Edit Settings*

Configuring Sub Module Information

Module Add...	Module Type	Module Status	Settings
1	Nametag Module	Online	

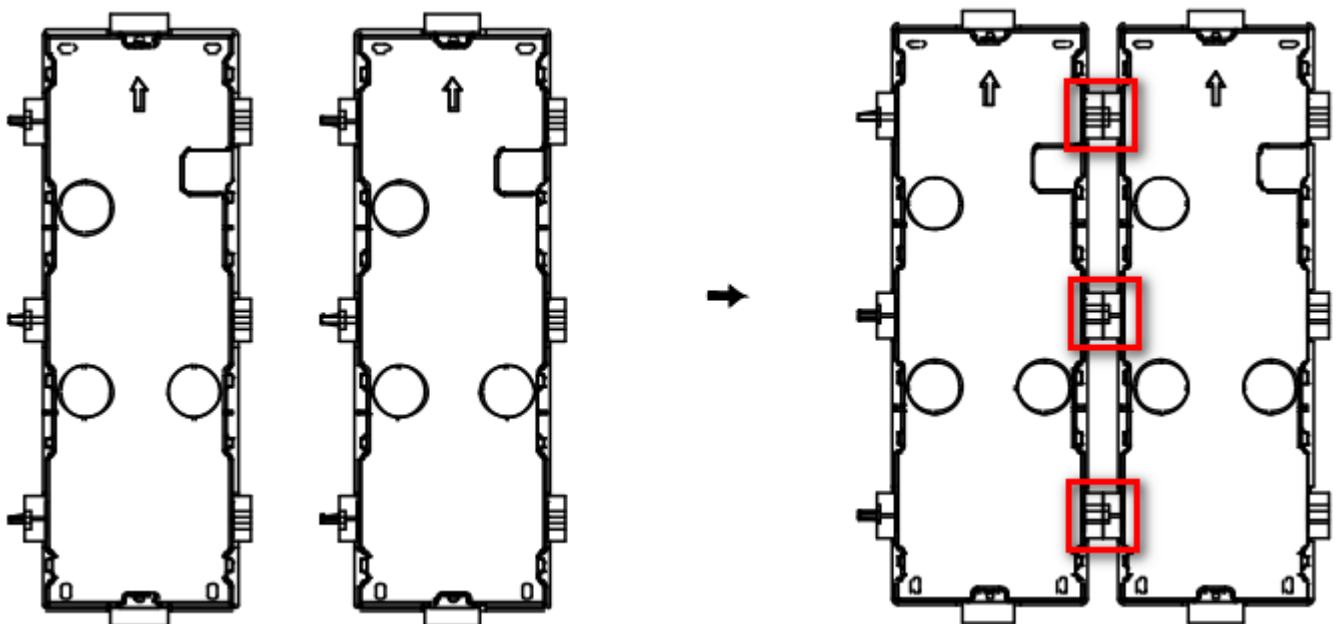
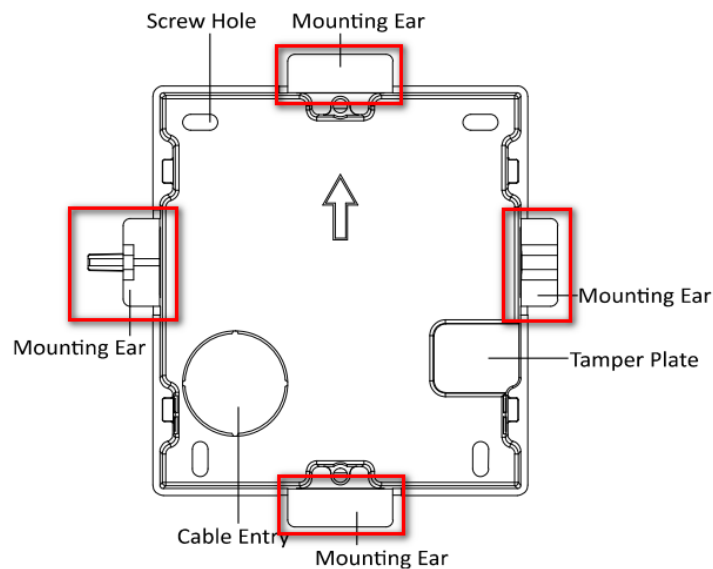
Configuration

Key number	Room No.
1	2
2	3
3	4
4	5
5	6
6	7

Save **Cancel**

Mounting Brackets

The plastic flush mount brackets come with removable ears for alignment. If two or more mounts are to be installed right next to each other, the ears (highlighted in red below) insert into each other. Once markings and cut-outs have been made, the ears can be snapped off. The face plate will not sit correctly if they are not removed.



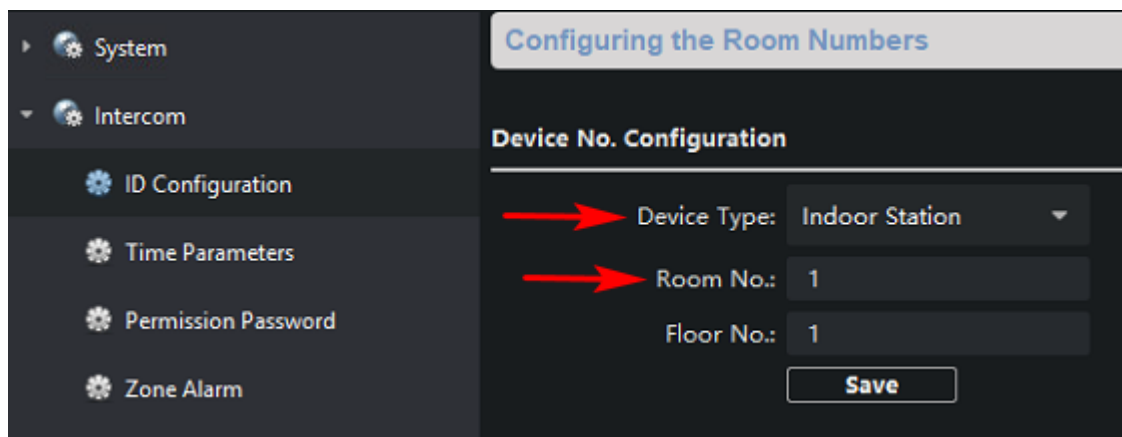
Room Station

Master Station

A Master station has a room number assigned to it. This is what is dialled by the door station.

This is configured in *Intercom -> ID Configuration -> Device Type -> Indoor Station* (Default setting)

The room number is configured in *Intercom -> ID Configuration -> Room No.: # (1-9999)*.



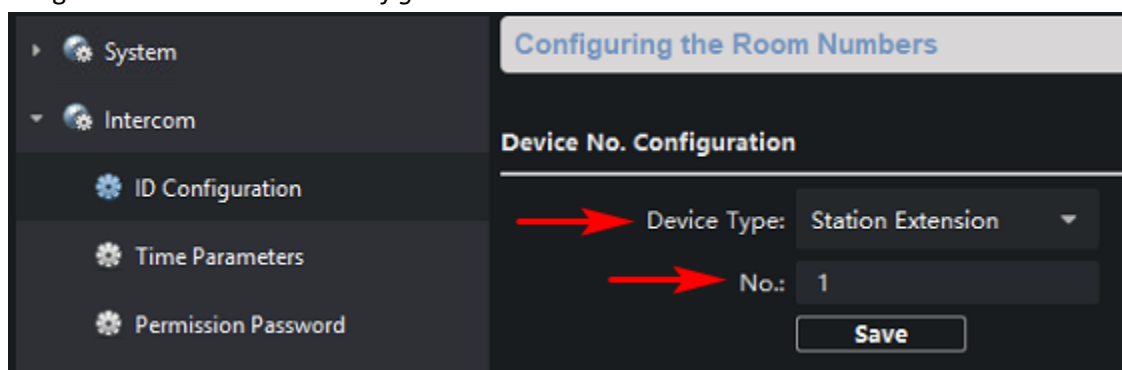
If using a 6-button module, the “Dial” number must match the Room No. If using a Keypad module, press **Room Number -> #**. For example, press **123#** to call room 123.

Sub Station

A Sub station will ring simultaneously with their corresponding Master station. A Master station can have up to 5 Sub stations. They can also dial its Master station and other Sub stations that share the same Master station. This conference call is audio only as there are currently no room stations with a built in camera.

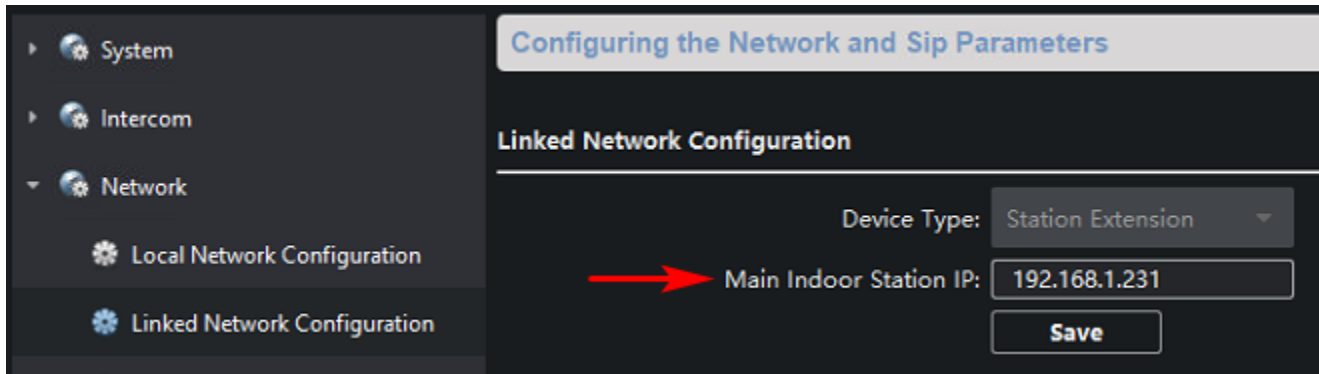
To configure a room station as a Sub, go to *Intercom -> ID Configuration -> Device Type -> Station Extension*

Assign **1-5** in *Intercom -> ID Configuration -> No.:*



It will reboot. Once booted back up, it will need to know the Master station’s IP address.

Configure this in *Network -> Linked Network Configuration -> Main Indoor Station IP:*



To dial it's Master station, press **0-0** (Including the "-" dash).

To dial other Sub stations, press **0-#** (Where # = the sub/extension number)

Hik-connect

Only Master room stations should be added to Hik-connect. Issues may occur if a Sub station is added. The app can be found on the iOS and Android app stores.

<https://apps.apple.com/us/app/hik-connect/id1087803190>

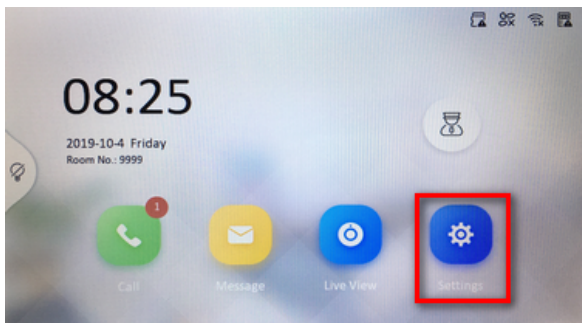
https://play.google.com/store/apps/details?id=com.hikvision.hikconnect&hl=en_AU

This app does not require port forwarding. When it is online, it will poll to Hikvision's servers, referencing the serial number. The serial number is then linked to an account, which can be created in the app itself or here:

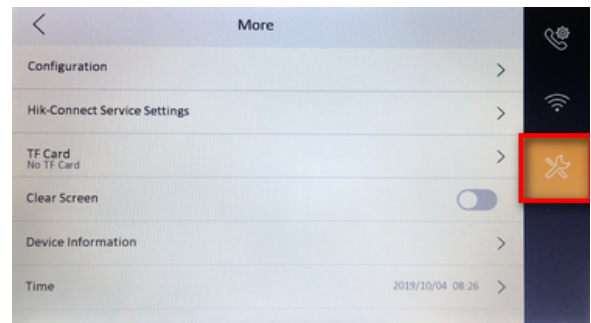
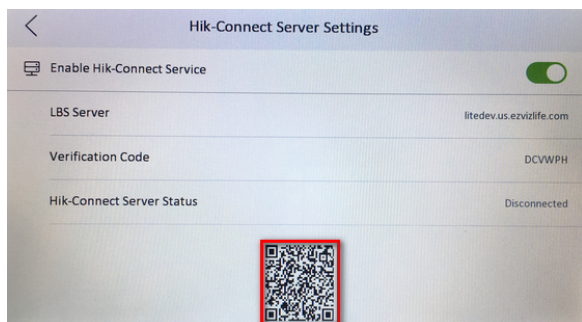
<https://www.hik-connect.com/register>

Adding a device using the screen and QR code

Go to *Settings -> Configuration -> Hikconnect*



Make sure the Status is "Online"



Adding a device manually using iVMS

Go to *System -> Device Information* and get the serial number. (9 digits between **WR** and **CLU**)

The screenshot shows the Hikvision web interface. On the left is a sidebar menu with 'System' expanded, showing 'Device Information', 'General', 'Time', and 'System Maintenance'. The main content area is titled 'Displaying the Device Information'. It has two sections: 'Basic Information' and 'Version Information'. Under 'Basic Information', 'Device Type' is 'DS-KH6320-WTE1' and 'Device Serial No.' is 'DS-KH6320-WTE10120190301WR229995006CLU', with the last part of the serial number underlined in red. The 'Version Information' section is currently empty.

Then go to *Network* -> *Hik-Connect* Make sure the status is “Online”

The screenshot shows the 'Cloud P2P Settings' page in the Hikvision web interface. The left sidebar has 'Network' expanded, showing 'Local Network Configuration', 'Linked Network Configuration', 'Advanced Settings', and 'Hik-Connect'. The main content area has the following settings: 'Enable Hik-Connect' is checked; 'Registration Status' is a dropdown menu set to 'Online'; 'Custom' is checked; 'Server Address' is 'litedev.us.ezvizlife.com'; and 'Verification Code' is 'QWERTY', which is highlighted with a red rectangle.

Use the serial number and verification code to add the device.

Adding a camera to a Room station

Go to *Intercom* -> *IP Camera Information* -> *Add*

IP Camera Information

Add

Index	Device I
1	Side Door

Edit IP Camera

Device Type: Camera

Getting Stream Mode: Direct

Device Name: Side Door

IP Address: 192.168.1.235

Port: 554

User Name: admin

Password: ••••••••

Camera No.: 1

Manufacturer Protocol: HIK Protocol

OK **Cancel**

- Device Name:** Name the camera here – This will appear on the intercom screen
- IP Address:** IP address of NVR or camera that is on the same network
- Port:** Always use 554
- User Name:** Typically “admin”
- Password:** Password of NVR or camera
- Camera No.:** Channel number if adding from NVR, 1 if adding a camera directly

Adding a Door station to an NVR

Just like a CCTV camera, door stations can be added through the web browser or on the monitor connected directly to an NVR (local GUI). The following steps go through adding a door station via the web browser.

Go to System -> Camera Management -> IP Camera -> Select a channel -> Modify

Local

System **1**

System Settings

Live View Settings

Maintenance

Security

Camera Management **2**

User Management

PoE Channel

IP Camera **3**

5

IP Camera					
	Channel No.	Camera Name	IP Address	Channel No.	Management
☐	D1	Intercom 1	192.168.1.232	1	8000
☐	D2	Camera 01	128.100.0.18	1	8000
☒	D3 4	Intercom 2	192.168.1.198	1	8000
☐	D4	IPCamera 04	128.100.0.5	1	8000
☐	D5	IPCamera 05	128.100.0.6	1	8000

IP Camera

IP Camera Address

192.168.1.198

Protocol

HIKVISION

Management Port

8000

Channel No.

1

User Name

admin

Password

••••••

Confirm

••••••

Transfer Protocol

Auto

Adding Method

Manual

IP Camera Time Sync.

☒ Enable

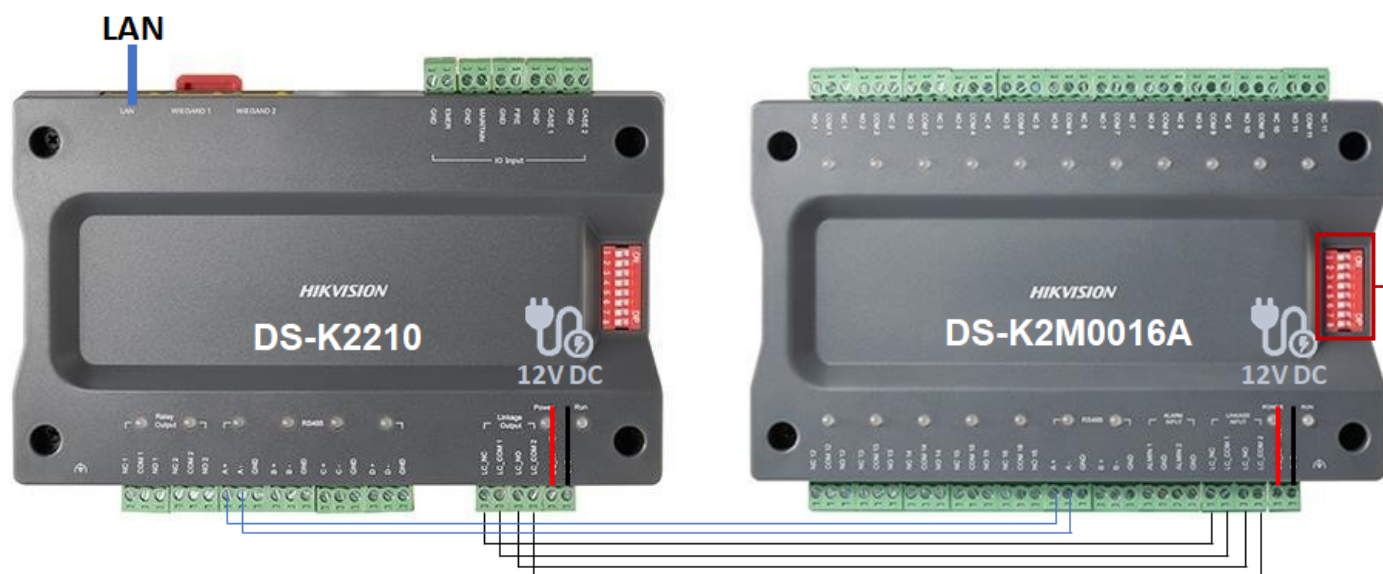
OK

Cancel

IP Camera Address	<i>IP address of the door station</i>
Protocol	<i>HIKVISION</i>
Management Port	<i>8000</i>
Channel No.	<i>1</i>
User Name	<i>admin</i>
Password/Confirm	<i>Password of door station</i>
Transfer Protocol	<i>Auto</i>
Adding Method	<i>Manual</i>

Lift Controller

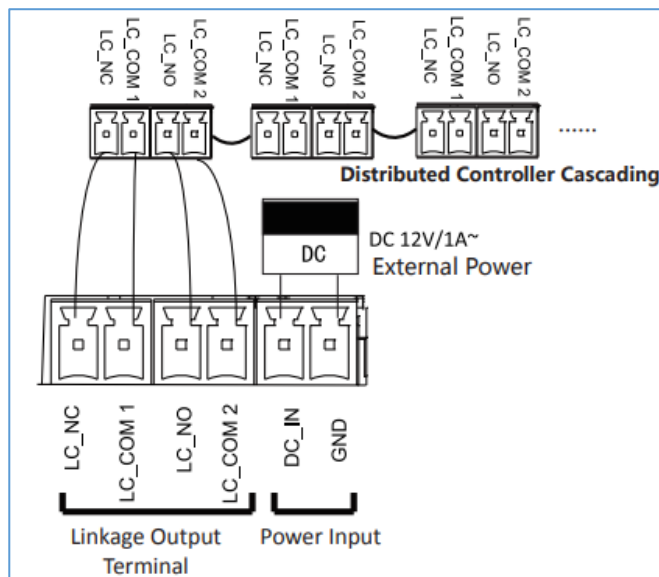
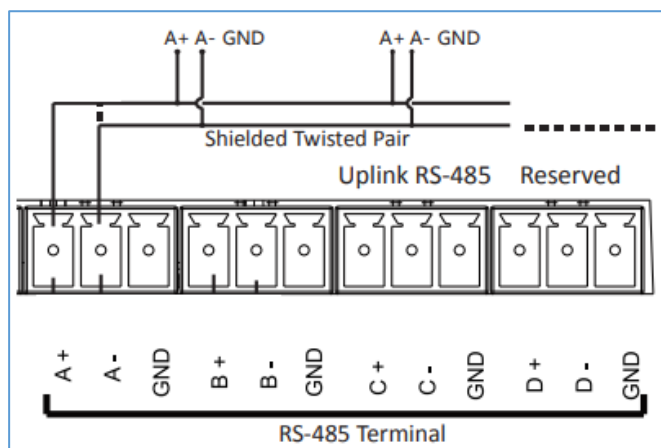
Ensure that the network is correctly configured. The K2210 is the main controller and connects to the IP network (LAN) and the K2M0016A relay modules. The K2210 can connect to up to 8 K2M0016A relay modules, totalling 128 floors. Follow the video found in the [Network Configuration section](#). ***The K2210 is not PoE!***



RS-485 connection: A+ and A- of K2210 to A+ and A- of K2M0016A (up to 8 - blue lines above)

Linkage connection: LC_NC, LC_COM 1, LC_NO, LC_COM 2 of K2210 to LC_NC, LC_COM 1, LC_NO, LC_COM 2 of K2M0016A (up to 8 - black lines above)

A power cycle is required if dipswitches are changed!



Dipswitch ON	Floors
1 & 2	1 to 16
3	17 to 32
1 & 3	33 to 48

Dipswitch ON	Floors
2 & 3	49 to 64
1 & 2 & 3	65 to 80
4	81 to 96

Dipswitch ON	Floors
4 & 1	97 to 112
4 & 2	113 to 128
8 (ON/OFF)	Inverts relays

The main lift controller can be added to the main (or Master) door station. Go to *Intercom -> Access and Elevator Control*

System

Intercom

ID Configuration

Time Parameters

Permission Password

Access and Elevator Control

IO Input/Output

Volume Input/Output

Dial

Motion Detection

Intercom Protocol

Sub Module

Network

Video Display

CCD

Configuring the Door and Ladder Parameters

Access Control

☐ Upload Alarm for Not-Cl

Door No.: 1

Door-unlocked Duration: 15 s

Door Name:

☐ Encrypt Card

Save

Elevator Control

Elevator No.: 1

Elevator Type: DS-K2210

Negative Floor: 0

Interface Type: Network Interface

Tip:All elevators should use the same interface type.

Enable Or Not: Yes

Server IP Address: 192.168.1.200

Server Port: 8000

User Name: admin

Password:

Save

Enable it and enter the IP address and admin password of the K2210 using port 8000. Click “Save”.

The Master room stations need a floor number (up to 128) assigned to it. Enter it in *Intercom -> ID Configuration*

When this room station unlocks the door, it will also release the corresponding floor relay.

Cards

Cards can be used to unlock doors and release floors. The reader module reads 13.56MHz Mifare CSN cards and has been tested to work with SIFER technology. There are 2 methods for enrolling a card.

1. Using the enrolment card that comes with the main door stations
2. Using iVMS

Enrolment card

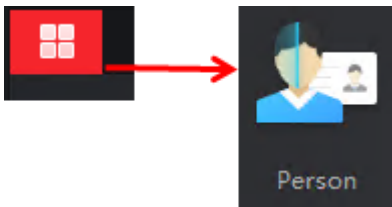
This method will only unlock the door. iVMS must be used to also release a floor of a lift controller.

1. Badge with the blank white card that came with the main door station.
2. Badge with a Mifare card (the CSN will be read).
3. Badge again with remaining cards.
4. Badge with the blank white card again that came with the main door station

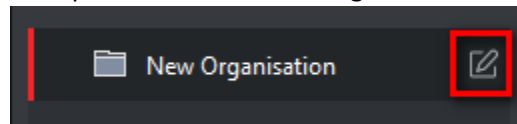
The reader will sound when it has read. **If it does not sound, the card or fob being badged is not Mifare or does not have a CSN.**

iVMS

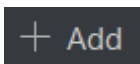
1. Go to Main Menu then Person



2. It is optional to edit "New Organisation"

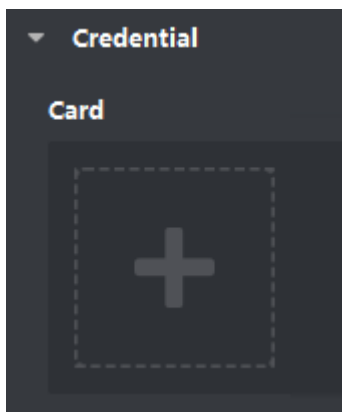


3. Click on + Add



4. Enter a name. The Person ID automatically increments as users are added

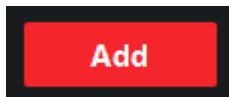
5. Click on add card



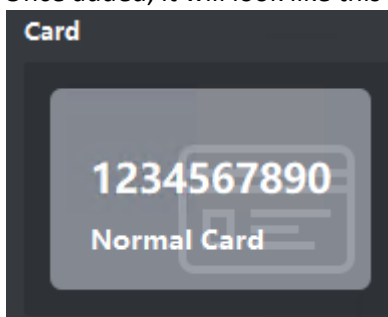
6. Enter the CSN into the Card No. field

Card No.

Then click on Add



7. Once added, it will look like this

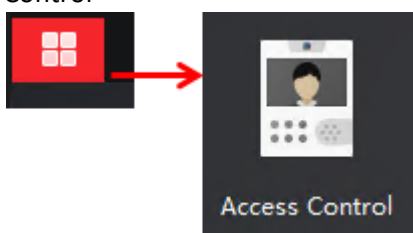


8. If only a door is being released, leave all fields below blank.
If a floor needs to be released as well, enter it below as well as a room number.

Bind Device

Room No. Room No. The room No. cannot be empty.

9. Go to Main Menu then Access Control



10. Go to Access Group then Add

+ Add

Template

Access Group

11. Name the group (first/top field) then select users

New Organisation

☐ Test 534

☒ Test 822

12. Select the doors. If different users/card need access to different doors, a separate group will need to be created

☐ Keypad Door

☒ Reader Door

☒ Door1_Reader Door

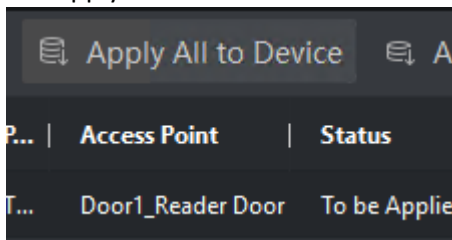
13. Click Save (bottom)



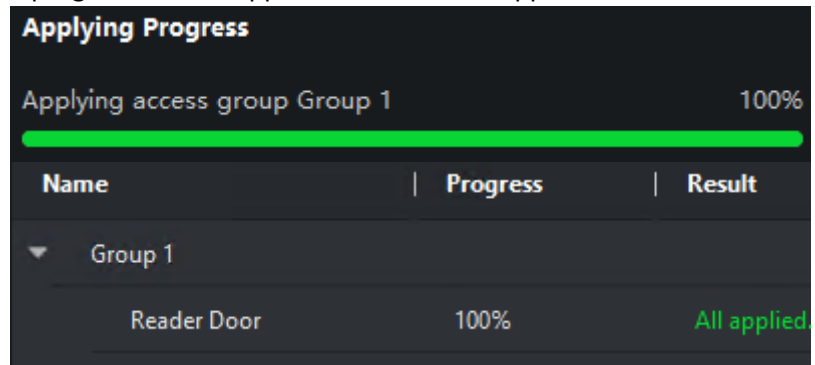
14. This Access Group will need to be pushed to the door station.

Name	Template	Person	Access Point	Status
Group 1	All-Day Authorized	Test 822	Door1_Reader Door	To be Ap

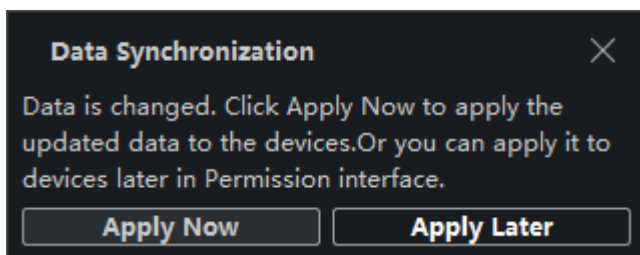
15. Select the Access Group then click on “Apply all to Device”



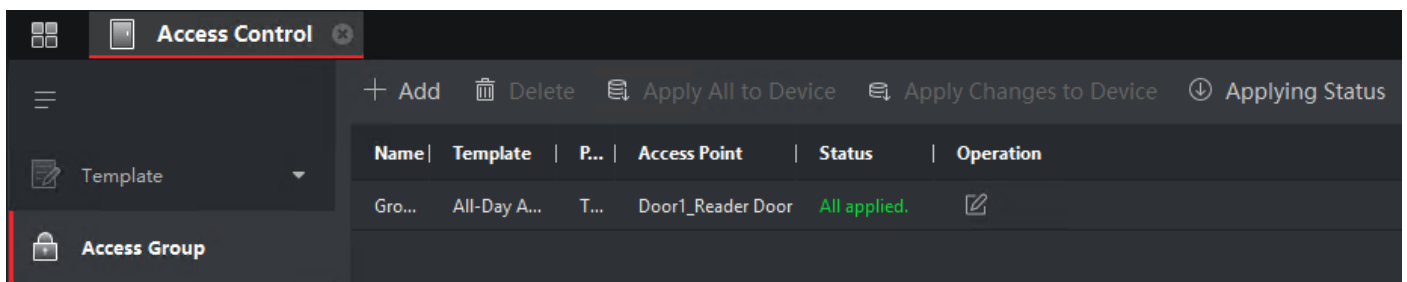
16. A progress bar will appear. Check that all applied.



If a change is made to the user or access group, the below prompt will appear. Click on “Apply Now” and it will push the information to the main door station.



To check its progress, go to *Access Control -> Access Group -> Applying Status*



Click on Details and it will show what had correctly applied.

Door Name	Person N...	Credential...	Credential T...	Applying Status
Door1_Reader Door	Test 534	2	Person	All applied.
Door1_Reader Door	Test 534	1981343534	Card	All applied.

NOTE FROM STEP 6: There are 2 methods of adding a card at this step. Manually entering the CSN or badging and the software will pick up the CSN (steps below). Badging is not supported yet. Hikvision will release main door station firmware to support this. No ETA yet.

The image shows two screenshots of the Hikvision software interface. The top screenshot is the 'Add' dialog box. It has a title bar 'Add' with a close button. Inside, there is a 'Card No.' text field, a 'Card Type' dropdown menu set to 'Normal Card', and a 'Read' button. A red box with the number '4' highlights the 'Read' button. Below these fields are three buttons: 'Settings' (with a gear icon), 'Add', and 'Cancel'. A red box with the number '1' highlights the 'Settings' button. The bottom screenshot is the 'Settings' dialog box. It has a title bar 'Settings' with a close button. Inside, there is a 'Mode' section with two radio buttons: 'Local' and 'Remote'. A red box with the number '2' highlights the 'Remote' radio button. Below this is a 'Device' dropdown menu set to 'Reader Door'. A red box with the number '3' highlights the 'Device' dropdown. At the bottom are 'OK' and 'Cancel' buttons.