



**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.

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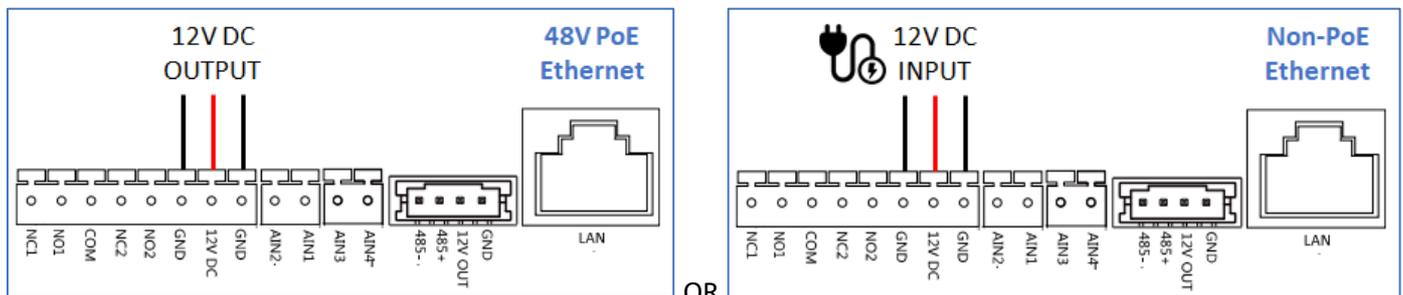
## Getting started

### Powering the Devices

Hikvision's Generation 2 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).

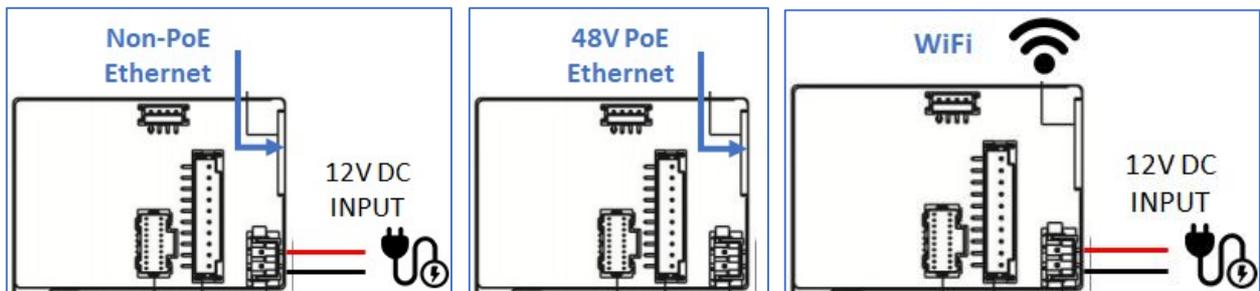
The previous generation of Hikvision intercoms were PoN (24v Power over Network).

### Door Station



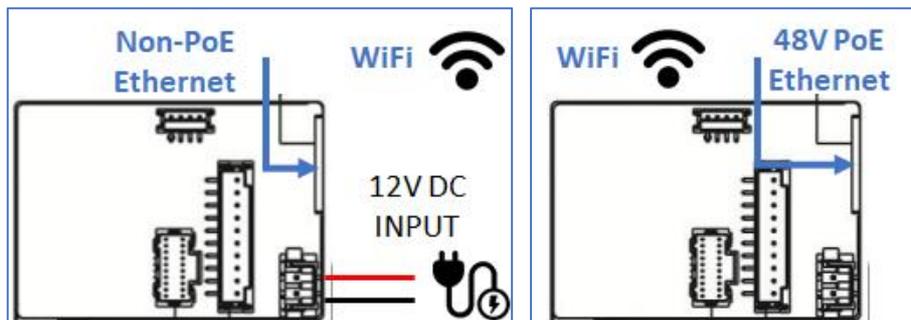
**Never power a station with both PoE and 12V DC!**

### 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 Wi-Fi will be connected to an individual's Wi-Fi 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=qB50ZYxxZ-s>

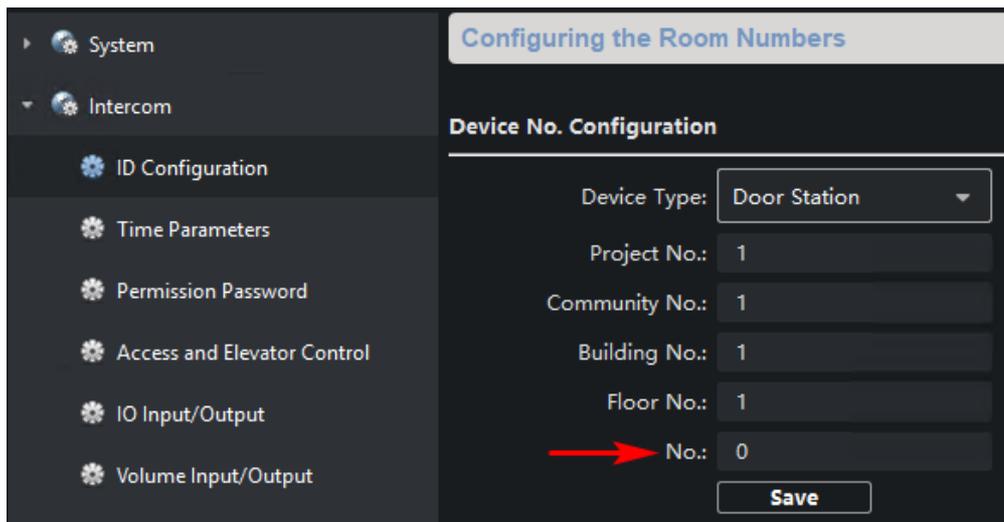


## Door Station

### 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 a configuration interface with a dark theme. On the left is a sidebar menu with 'System' and 'Intercom' expanded, showing options like 'ID Configuration', 'Time Parameters', 'Permission Password', 'Access and Elevator Control', 'IO Input/Output', and 'Volume Input/Output'. The main area is titled 'Configuring the Room Numbers' and contains a 'Device No. Configuration' section. This section has several input fields: 'Device Type' (a dropdown menu set to '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 located at the bottom right of the configuration area.

## Sub Station

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

Configuring the Room Numbers	
<b>Device No. Configuration</b>	
Device Type:	Door Station
Project No.:	1
Community No.:	1
Building No.:	1
Floor No.:	1
No.:	1
<b>Save</b>	

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

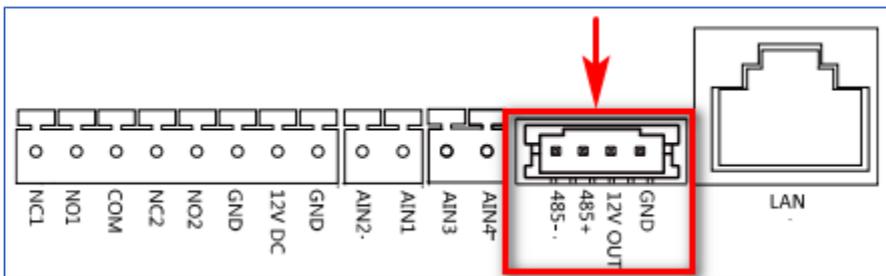
Configuring the Network and Sip Parameters	
<b>Linked Network Configuration</b>	
Device Type:	Indoor Station
Master Station IP Address:	0.0.0.0
(Main) Door Station IP Address:	192.168.1.197
SIP Server IP Address:	0.0.0.0

## Door Modules

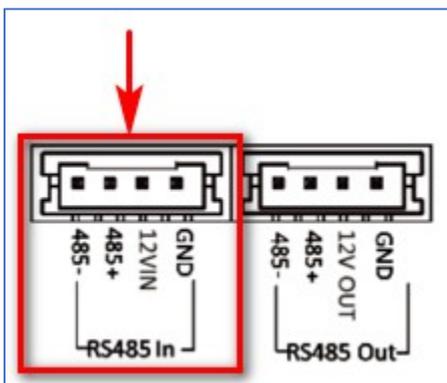
There are 5 different types of door modules. Display, Keypad, 6-button, Mifare Reader and a 3-status Indicator.

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.

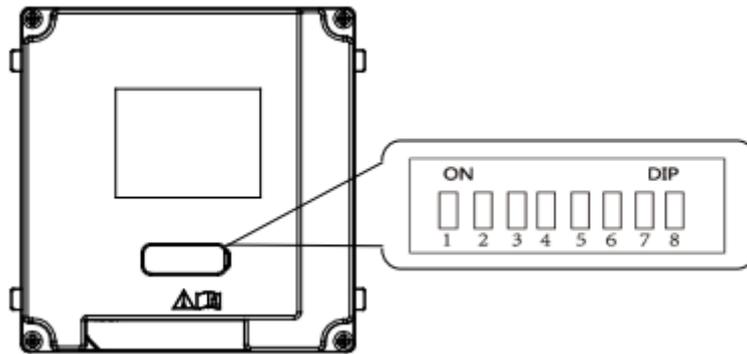
### Cable



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.



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

## Configuring Modules

The Main Door station can have up to 8 modules connected to it. The **KD-IN, KD-KP and KD-M** all need the dipswitch to be addressed but are not configurable through iVMS.

KD-KK

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

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

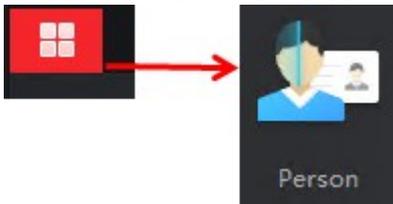
  

Key number	Room No.
1	<input type="text" value="2"/>
2	<input type="text" value="3"/>
3	<input type="text" value="4"/>
4	<input type="text" value="5"/>
5	<input type="text" value="6"/>
6	<input type="text" value="7"/>

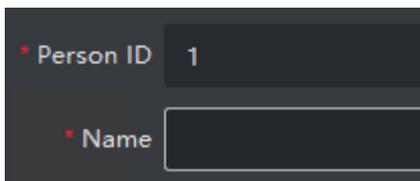
KD-DIS

The display module can show a list of names with their room numbers and is configured through iVMS.

1. Go to Main Menu then Person

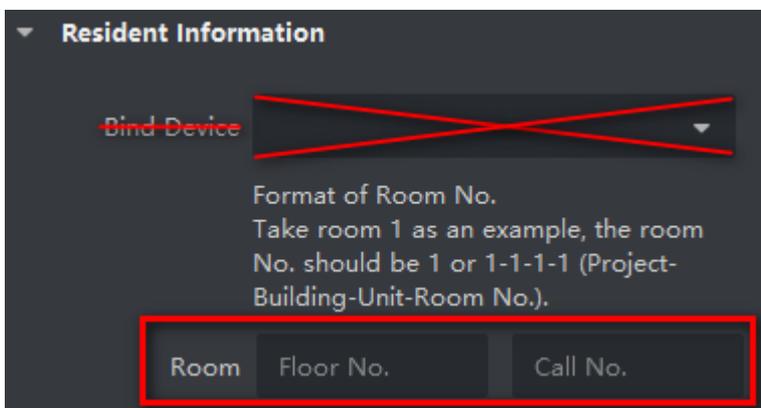


2. Click on + Add and enter a name which will be displayed on the KD-DIS module. The **Person ID** automatically increments as users are added.



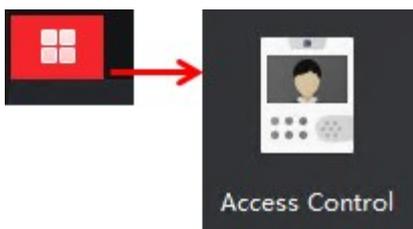
A screenshot of a dark-themed form. The first field is labeled "Person ID" and contains the number "1". Below it is a field labeled "Name" which is currently empty.

3. Scroll down and expand **Resident Information** and manually enter the room number that will be linked to displayed name. A floor number must be entered. Use "1" if there is no lift controller.

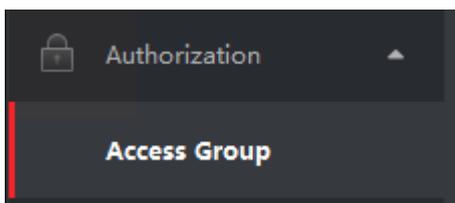


A screenshot of the "Resident Information" section in a dark-themed interface. At the top, there is a dropdown menu labeled "Bind Device" which is crossed out with a red 'X'. Below this, there is instructional text: "Format of Room No. Take room 1 as an example, the room No. should be 1 or 1-1-1-1 (Project-Building-Unit-Room No.).". At the bottom of the section, there are three input fields: "Room", "Floor No.", and "Call No.", which are collectively enclosed in a red rectangular box.

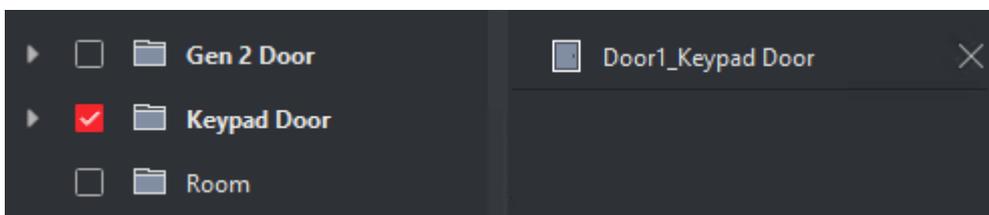
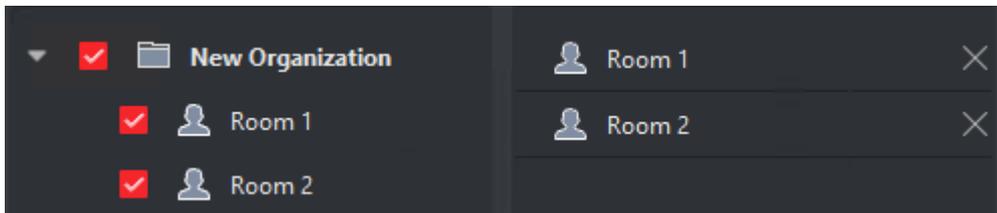
4. Now go to *Menu -> Access Control*



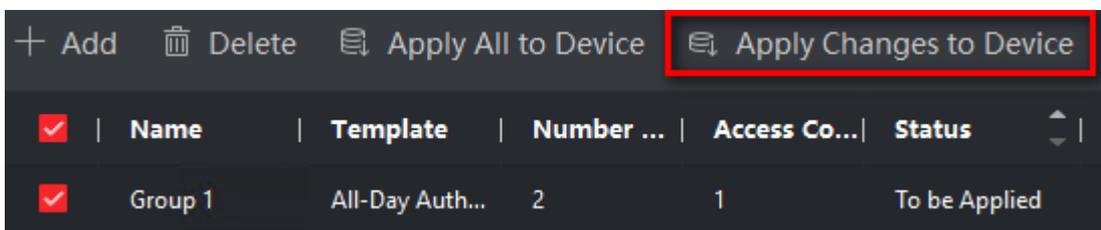
5. Expand **Authorisation** and click on **Access Group**.



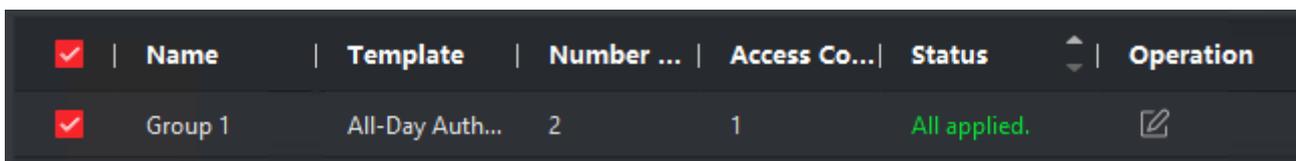
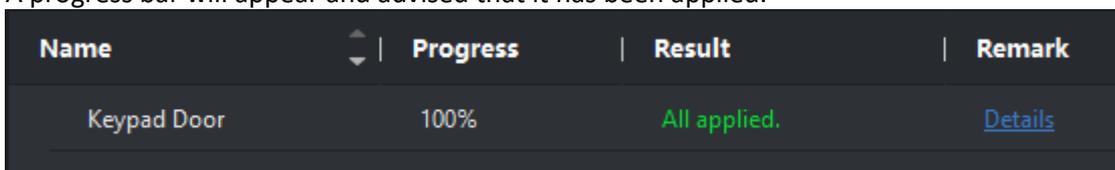
6. Click on + Add and give the Access Group a name. Select users and door stations then click on Save.



7. An Access Group has now been created. Note that the status is "To be applied". Select the group and click on **Apply Changes to Device**.



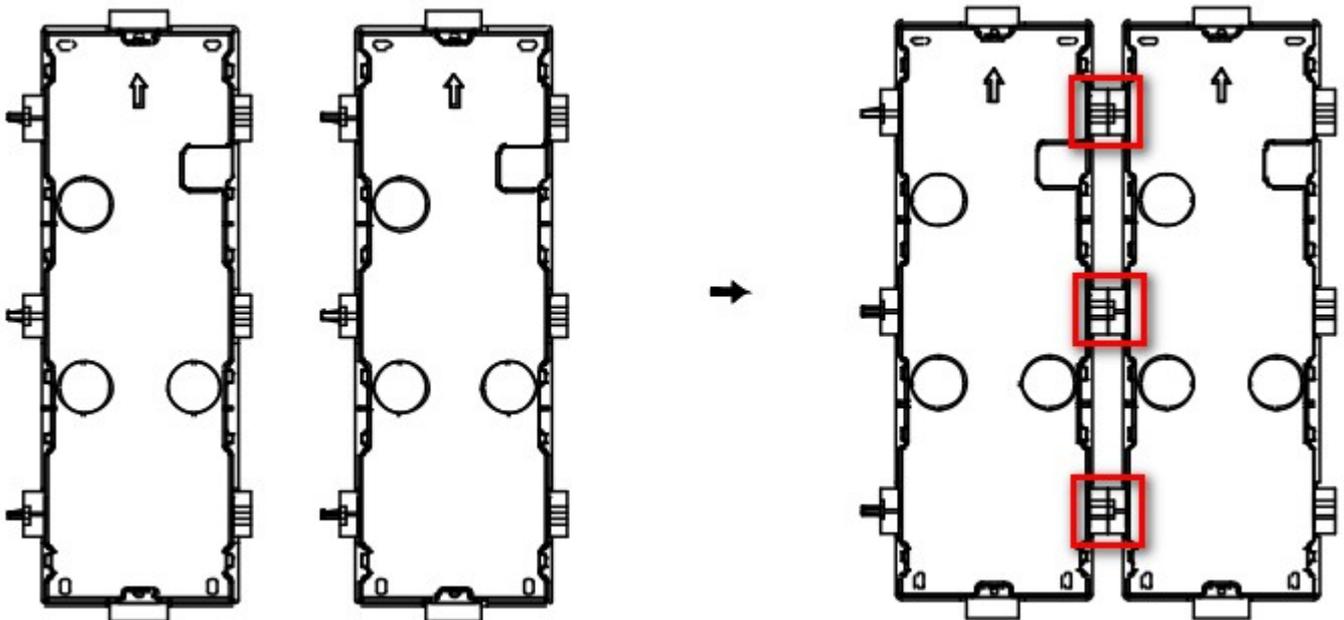
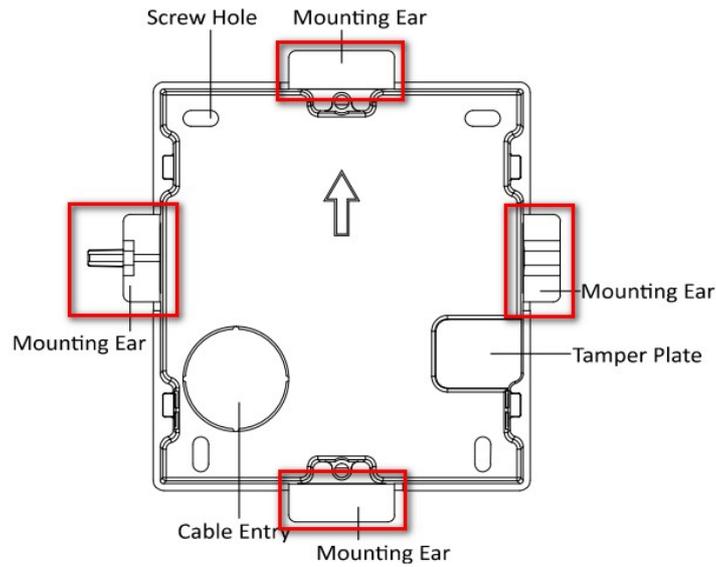
A progress bar will appear and advised that it has been applied.



8. Press up/down on the display module to scroll through the contacts to check that they have come through.

## 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.



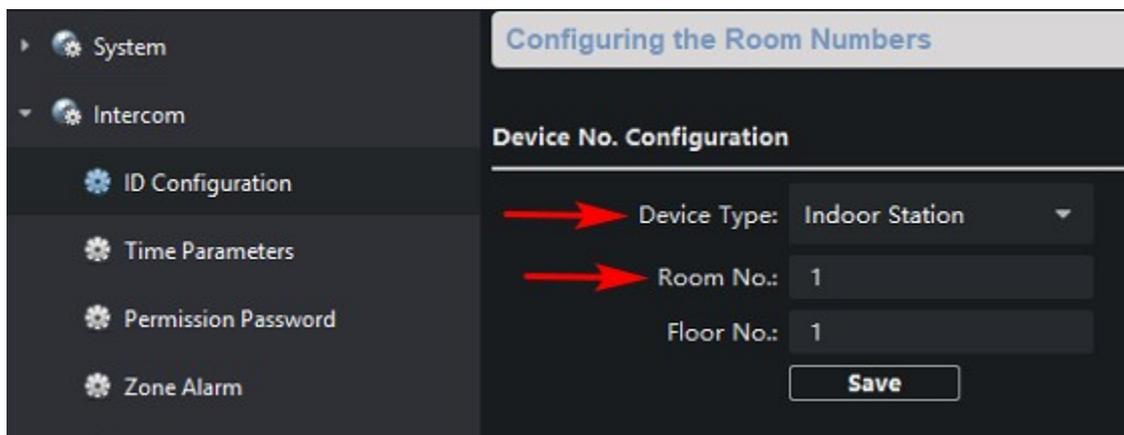
## Room Station

### Master Station

Each Master station has a room number assigned to it. This is what is dialed 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)*.



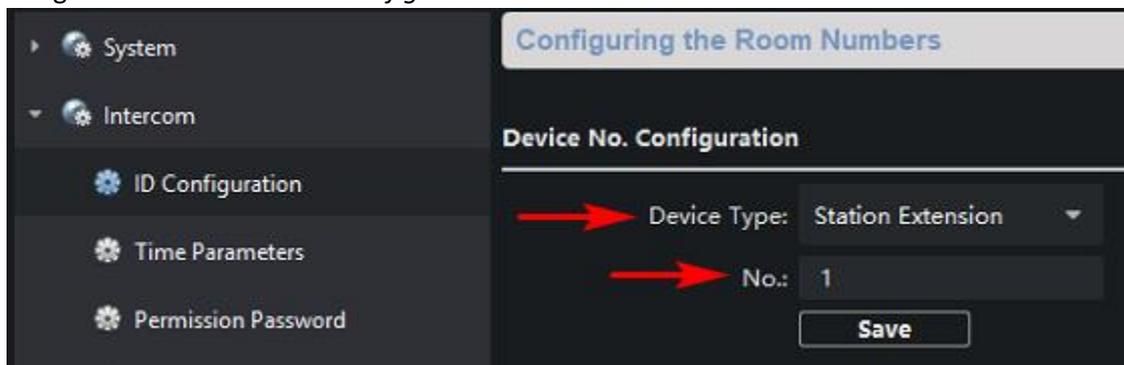
If using a 6-button module, the “Dial” number must match the Room No. If using a Keypad module, press **Room Number -> #**. For example, press **123#** to call room 123.

### Sub Station

A Sub indoor station will ring simultaneously with their corresponding Master indoor station. A Master station can have up to 5 Sub stations which can dial their 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 an inbuilt camera.

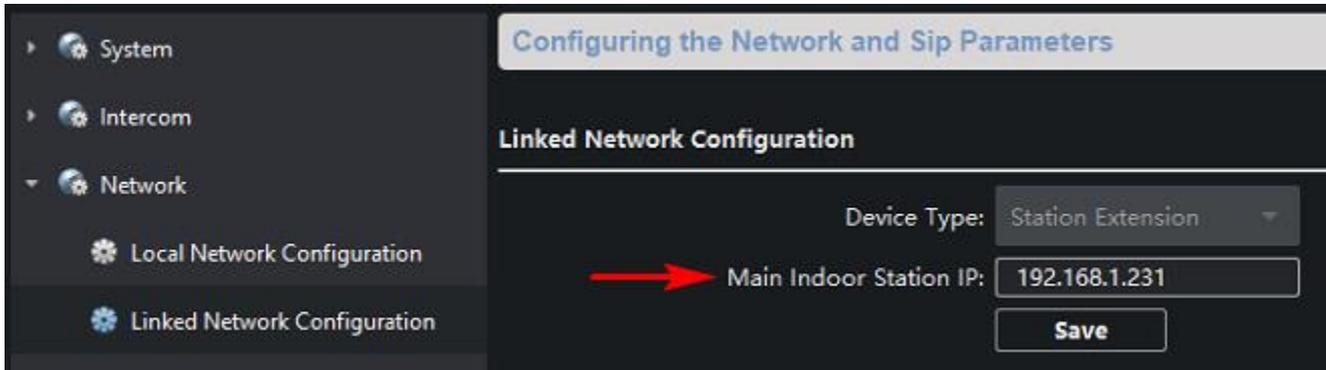
To configure a room station as a Sub, go to *Intercom -> ID Configuration -> Device Type -> Station Extension*

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



The device 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>

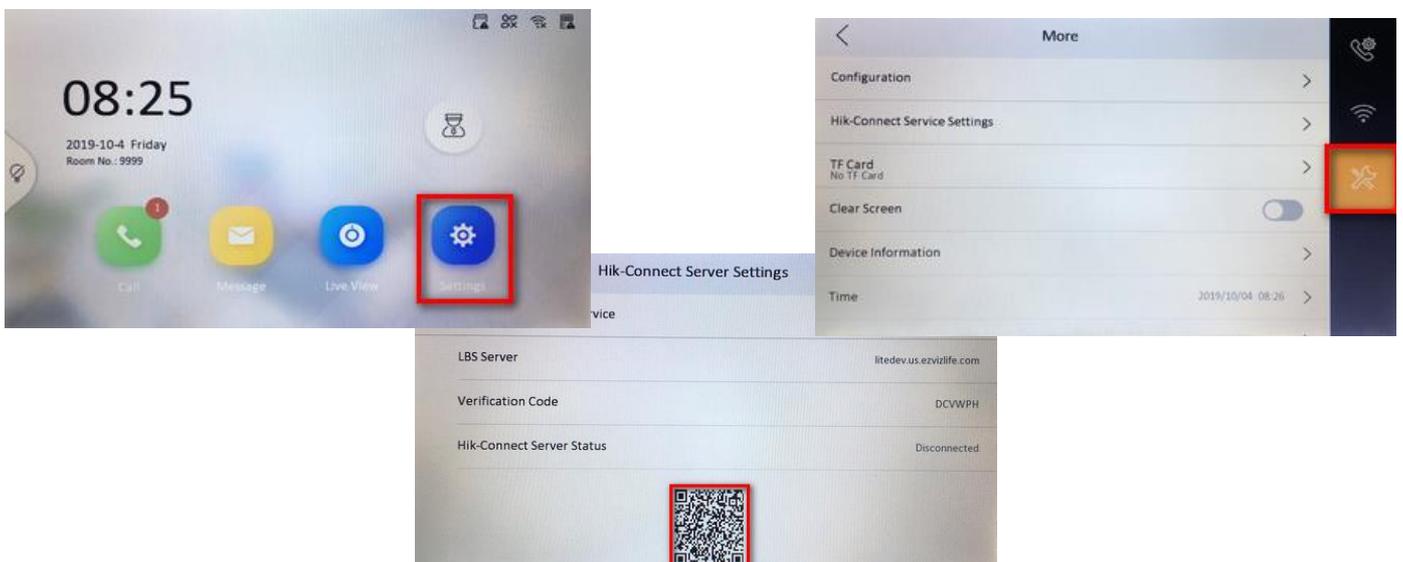
[https://play.google.com/store/apps/details?id=com.hikvision.hikconnect&hl=en\\_AU](https://play.google.com/store/apps/details?id=com.hikvision.hikconnect&hl=en_AU)

This app does not require port forwarding. When your device is online, it will poll to Hikvision's servers, referencing its 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>

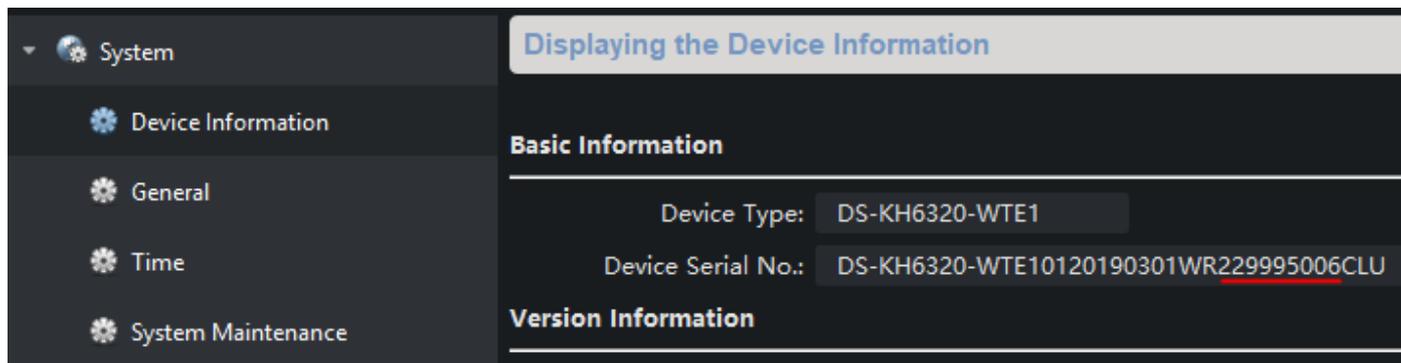
## Adding a device using the screen and QR code

Go to *Settings -> Configuration -> Hik-Connect Service Settings*

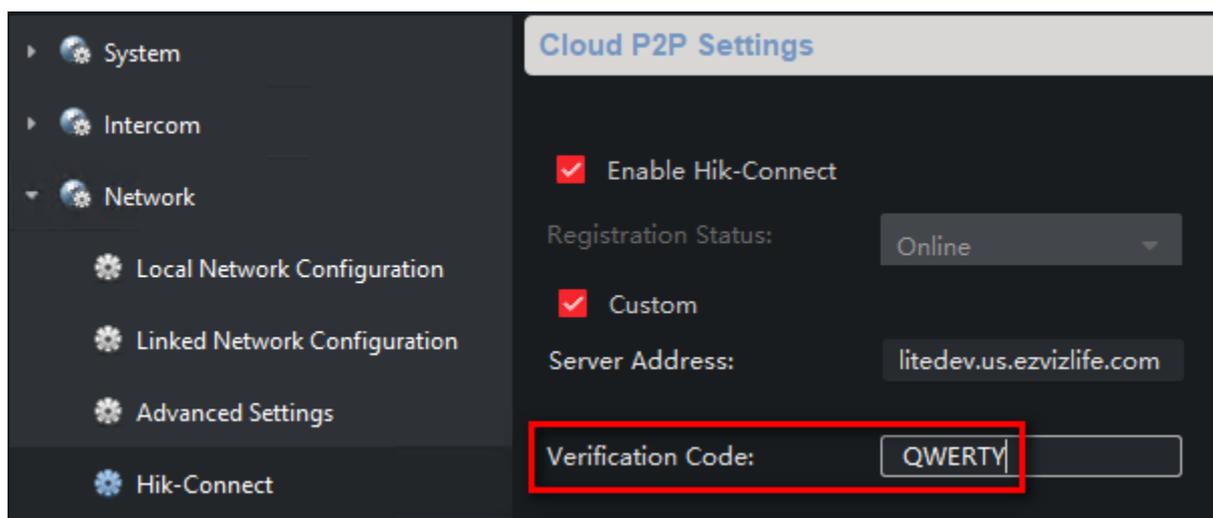


## Adding a device manually using iVMS

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



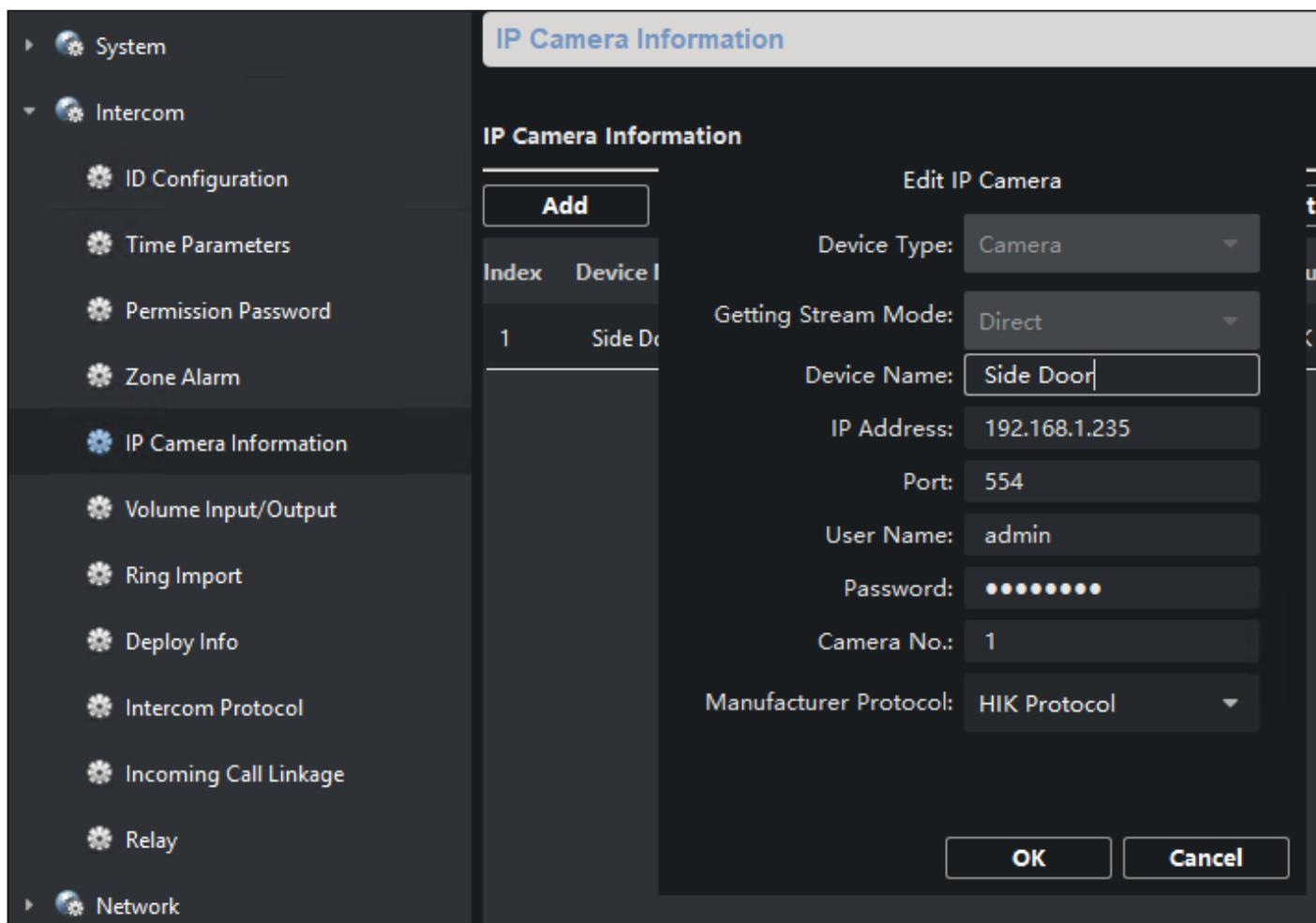
Then go to *Network -> Hik-Connect* Make sure the status is "Online"



Use the serial number and verification code when adding the device.

## Adding a camera to a Room station

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



**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

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

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	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:

Protocol:  ▼

Management Port:

Channel No.:

User Name:

Password:

Confirm:

Transfer Protocol:  ▼

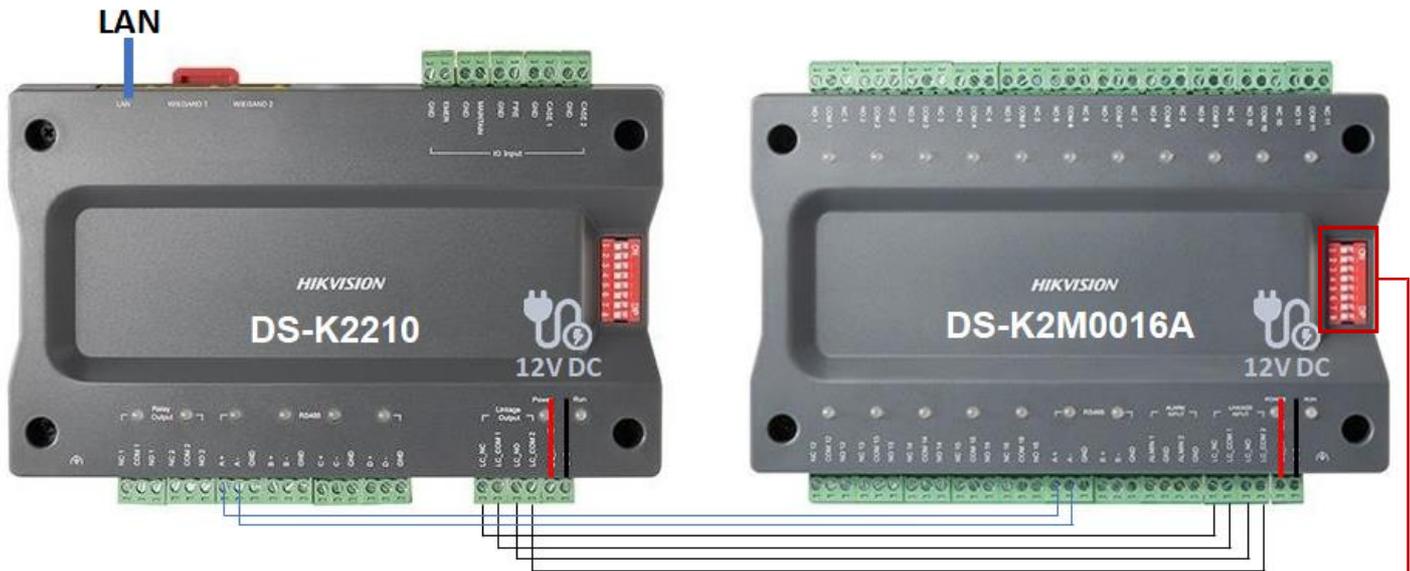
Adding Method:  ▼

IP Camera Time Sync.  Enable

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

## Lift Controller

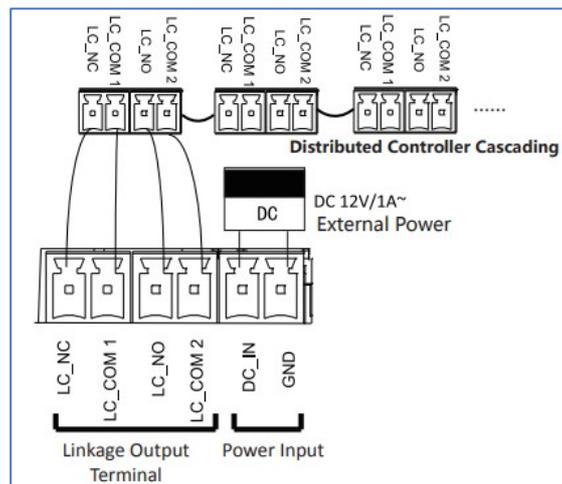
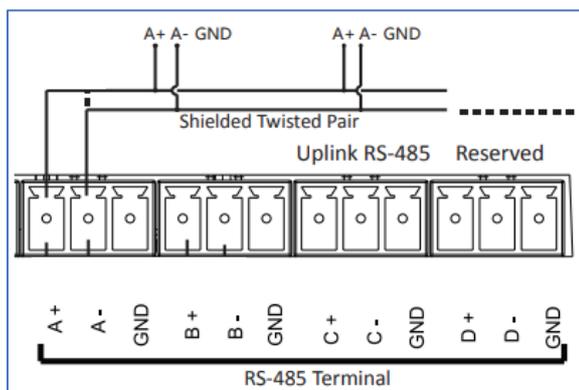
Ensure that the network is correctly configured. The K2210 is the main controller and connects to the IP network (LAN) and the K2M0016A relay modules. The K2210 can connect to up to 8 K2M0016A relay modules, totalling 128 floors. Follow the video found in the [Network Configuration section](#). **The 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 now be added to the main (or Master) door station. Go to *Intercom* -> *Access and Elevator Control*

**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

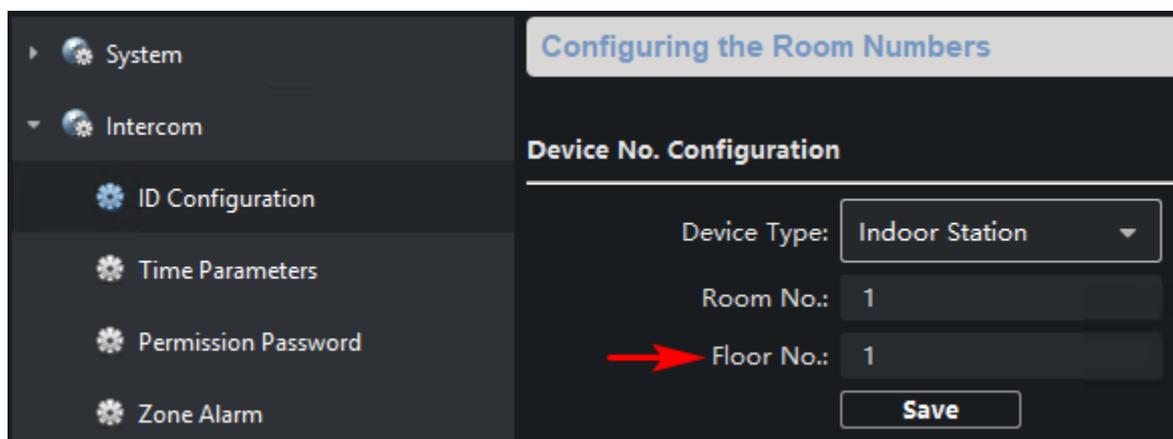
User Name: admin

Password: ●●●●●●

**Save**

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

All Master room stations will need to be assigned a floor number (up to 128). 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

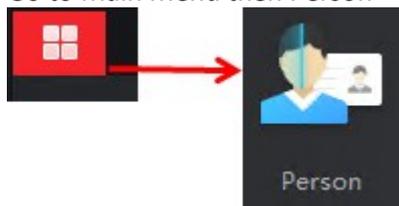
**This method will only unlock the door. iVMS must be used to also release a floor of a lift controller.**

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

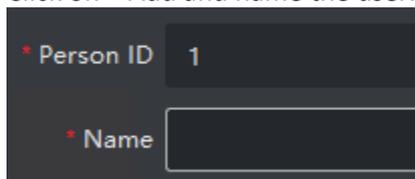
The reader will sound when it has read. **If it does not sound, the card or fob being badged is not Mifare or does not have a CSN.**

### iVMS

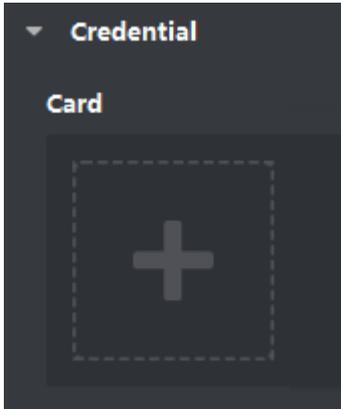
1. Go to Main Menu then Person



2. Click on + Add and name the user.



- Expand Credential and click on add card.



- Enter the card into the Card No. field

Card No.

OR Badge using the following steps.

**Add** ✕

Card No.  4  
Read

Card Type

⚙️ Settings 1 Add Cancel

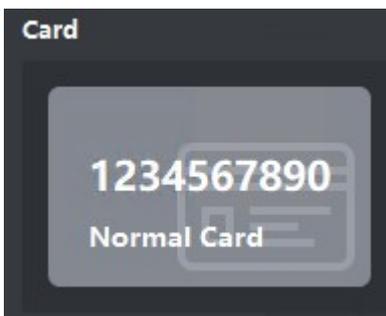
**Settings** ✕

Mode  Local 2  Remote

3 Device

OK Cancel

- Once added, it will look like this

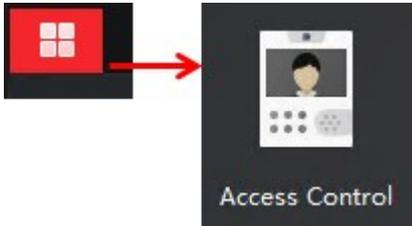


- If only a door is being released, leave all fields below blank. If a floor needs to be released as well, enter the floor number.

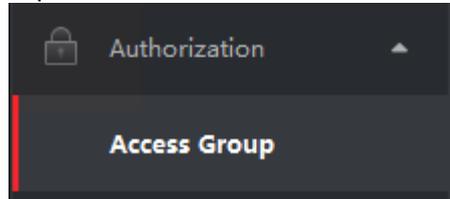
Bind Device

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

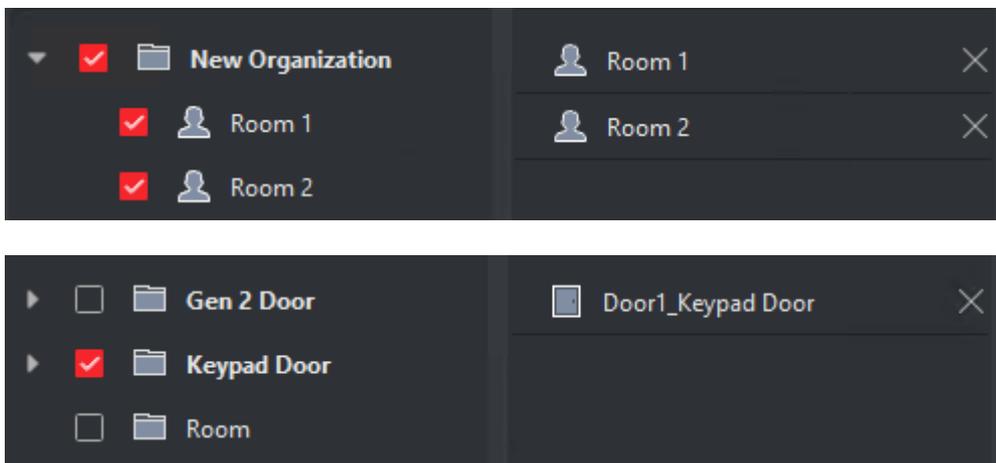
7. Go to Main Menu then Access Control



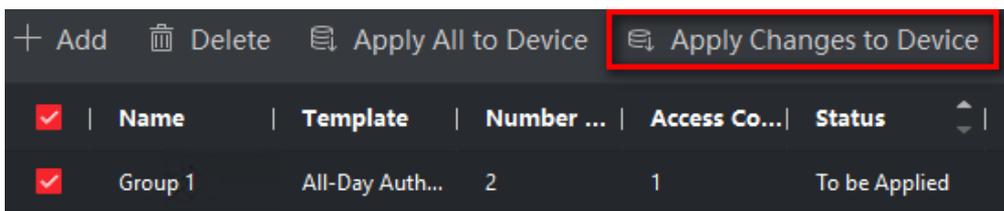
8. Expand **Authorisation** and click on Access Group.



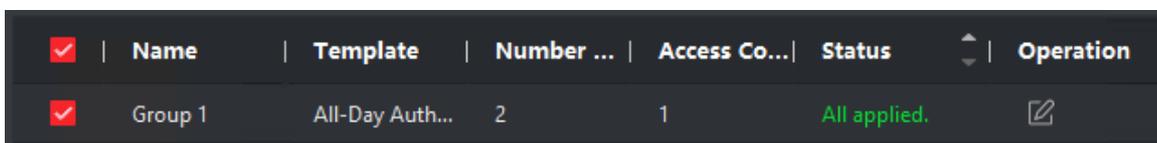
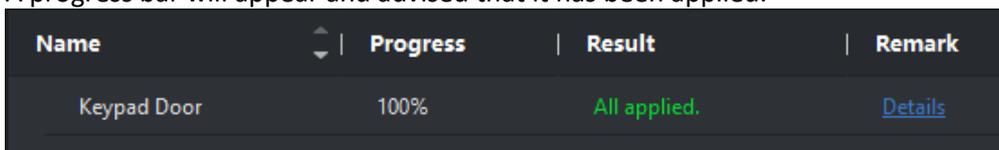
9. Click on + Add and give the Access Group a name. Select users and door stations then click on Save.



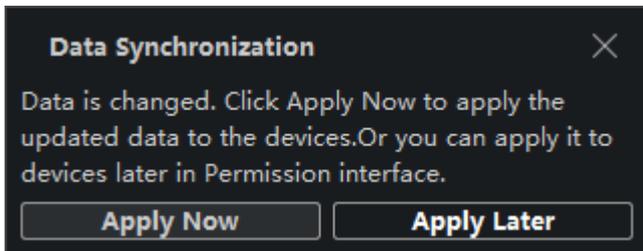
10. An Access Group has now been created. Note that the status is "To be applied". Select the group and click on **Apply Changes to Device**.



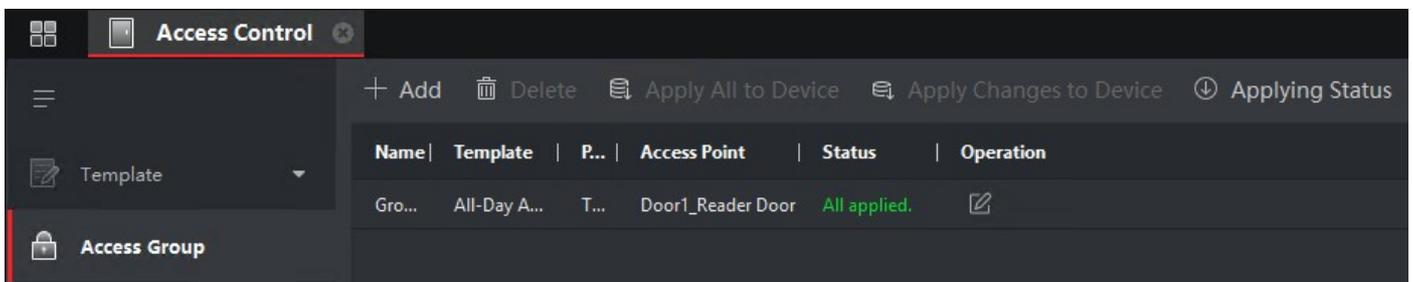
A progress bar will appear and advised that it has been applied.



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 has been 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.