HCP 2.4
Elevator Control
business delivery solution

2023.3

Content

1   Introduction

1.1   Background

In the residential areas, office buildings, factories and other scenarios, the property management companies and their managers can apply the Elevator Control Solution to secure the building access in a more effective and safer way and prevent nauthorized personnel from accessing into the restricted areas. It is achieved through the HCP, a multifunctional platform, in which many operations like device management, personnel management, access control, remote control, real-time monitoring, and alarm linkage are included.

1.2   Common applications

(1)A card reader is connected to the elevator control unit (DS-K2210) , which allows the passengers to select the authorized storey manually or automatically. (The specific floors are automatically selected by swiping card inside the elevator, which is commonly applied in hotels and residential areas.)

(2)A video intercom device is linked with the elevator control unit (DS-K2210), which allows the owner to the access to the authorized storey where the owner is heading by swiping the card after the identity verification at the door station. (The owner returns home.)

(3)The indoor can unlock the gate and authorize the specific storey access permission by clicking when receiving a call from the video intercom. (It is commonly applied for guest visits.)

(4)The indoor can call and appoint the elevator to the storey where the host terminal is located through the host terminal. (It is applied when the host is going out.)
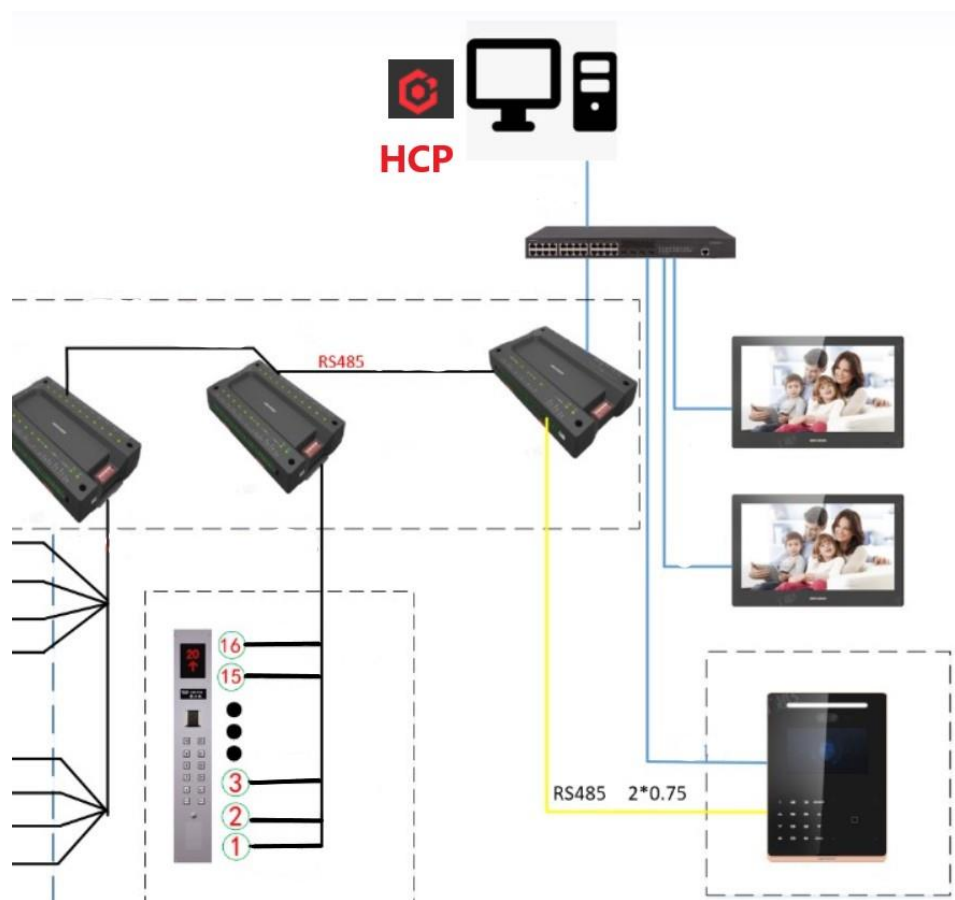
1.3 Components within the solution

Component	Model	Function
Elevator Control Device	Elevator control unit(DS-K2210)/ Elevator control unit(DS-K2M0016A)	Achieve
HCP	HikCentral Professional	DeviceManagement,person management, access control, etc.
Video Intercom Device	Door station、Indoor	Call elevator

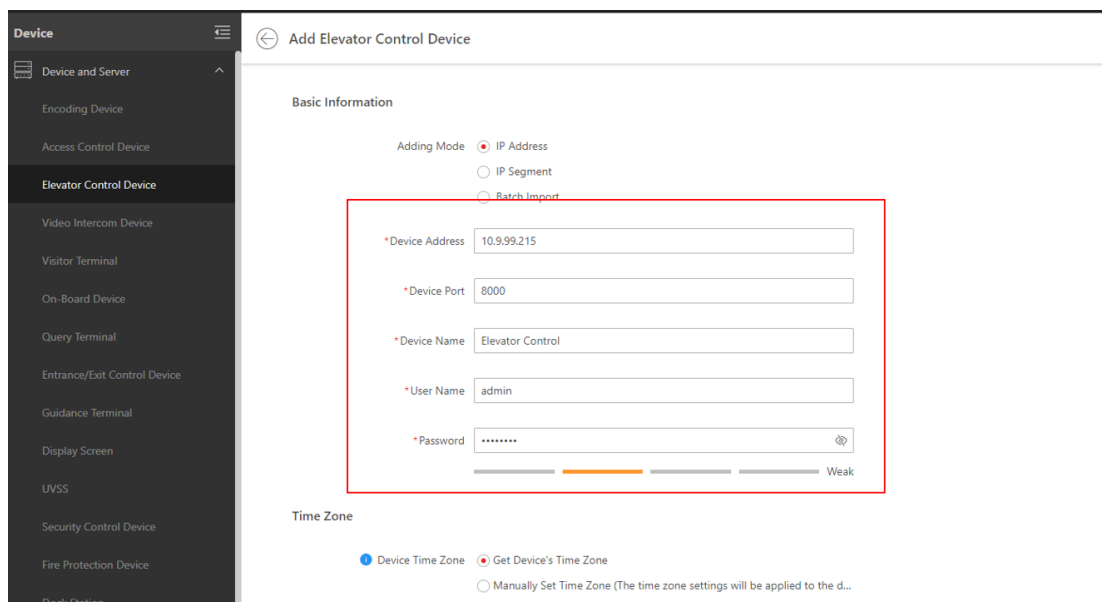## 2 Device Configuration

2.1 Add Eleavator Control Device

(1)Firstly, please enter the【Device】and select【Eleavator Control Device】, then click the "Add" buttom.
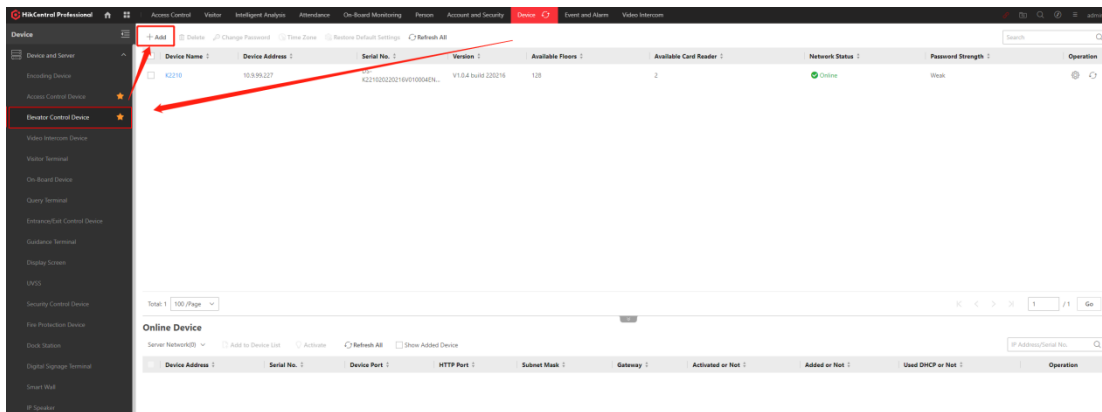
Enter the IP or the IP segment of the device, and select the associated storey information. This sequence number corresponds to the one in the branch console.
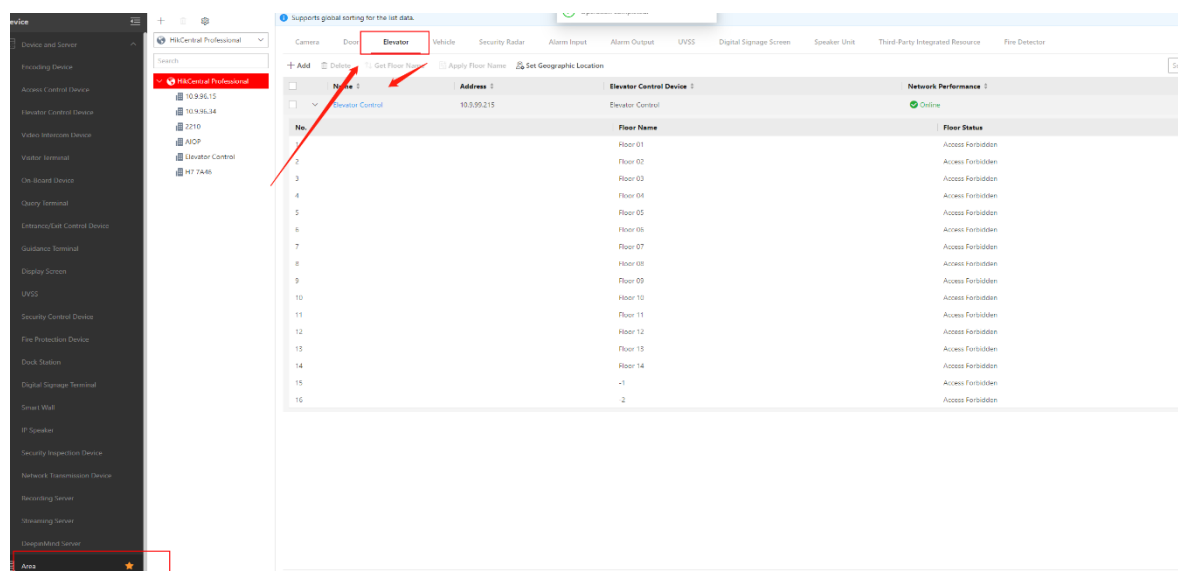
Each branch console device can support 16 floors, and each main control supports adding 8 branch console devices. As an analogy, it supports up to 128 floors., click Add to save.
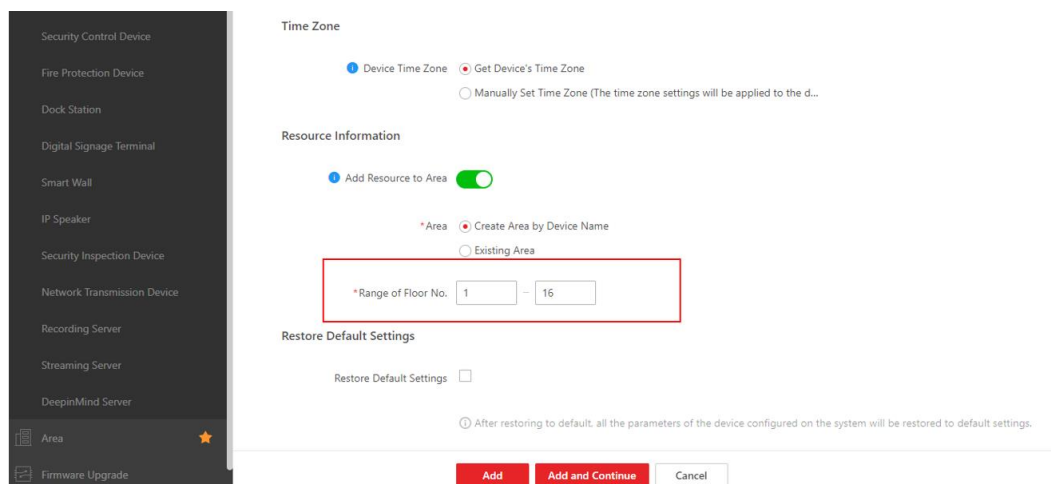
Note: One access control host can only be added to one platform.

(2)Go to 【Device】 >> 【Eleavator】 to configure elevator control data, which includes Basic Information, Floor, Link Camera and Card Reader.

Note: The association between the sequence number and the actual floor data lies in the Floor. And the sequence number corresponds to the branch console relay interface. The Floor Name represents the floor information displayed to the passengers by the platform.

For example, if there are two underground floors in the building, it is recommended to associate the first two digits or the last two digits with the two underground floors, as shown in the figure.

2.2   Video intercom device with the elevator control device
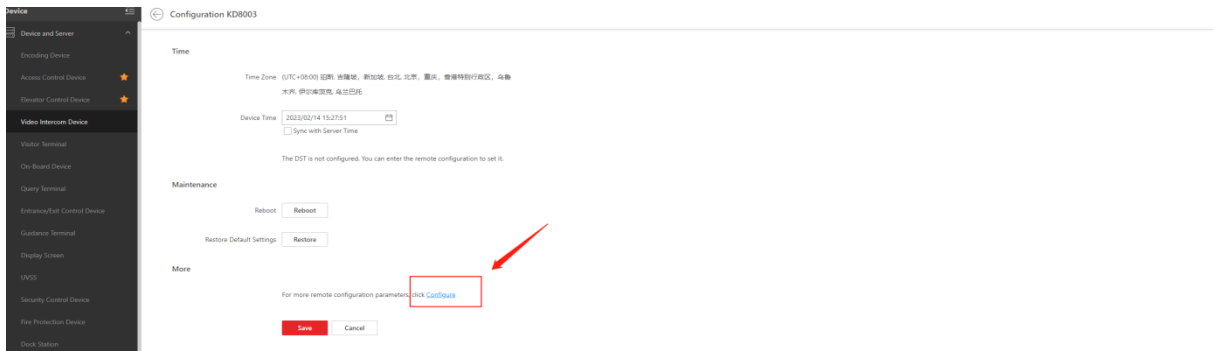
(1)Door station configuration

First enter 【Device】 >> 【Video Intercom】, after add the video intercom device, then click

the icon on the right to enter the device configuration page.
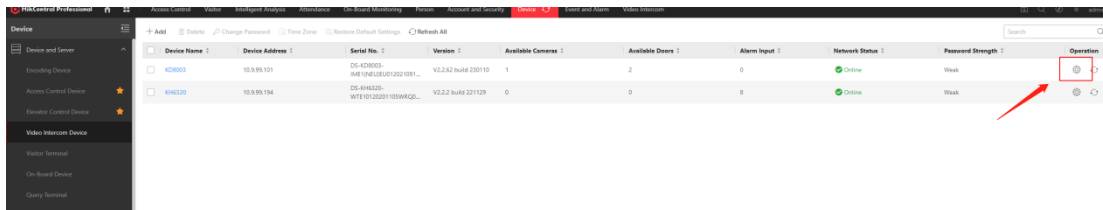
Click 【More】>>【Configure】to enter the web configuration pageConfigure the association


between the entrance guard and elevator control host, enter the【Access Control】> 【Elevator Control Parameters】page, and add the corresponding elevator control host again.

Note: For example, if there are two underground floors in the building,

When the Negative Floor Capacity parameter is set to 0, and the host terminal is on the 10th floor, then the corresponding Floor NO. and branch console relay number for the host terminal is also 10.

And when Negative Floor Capacity parameter is set to 2, the host terminal is on the 10th floor, then the corresponding Floor NO. of the host unit and the sequence number of the branch console relay is 12.

Therefore, it is recommended to set 0 for Negative Floor Capacity, keep Floor NO. consistent with the floor, and associate the last two digits of Floor NO. with the underground floor number.
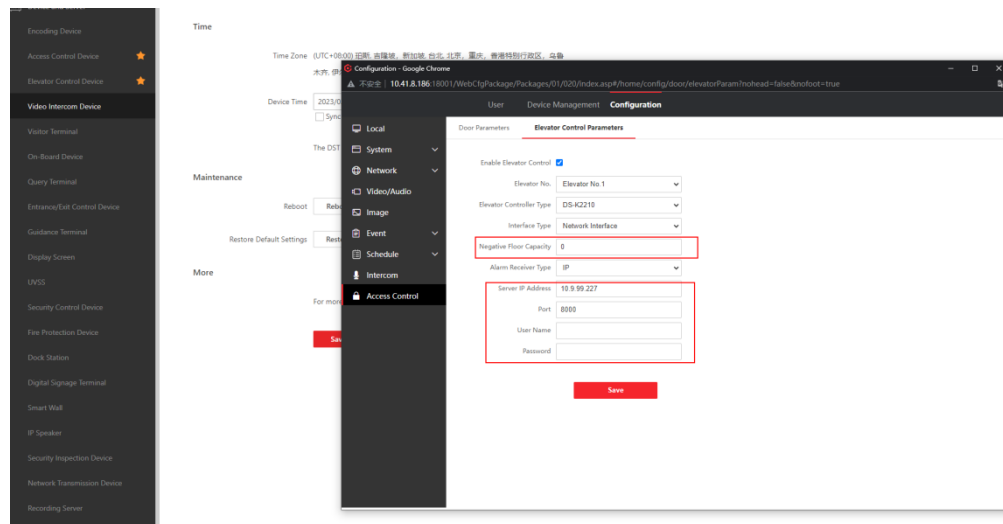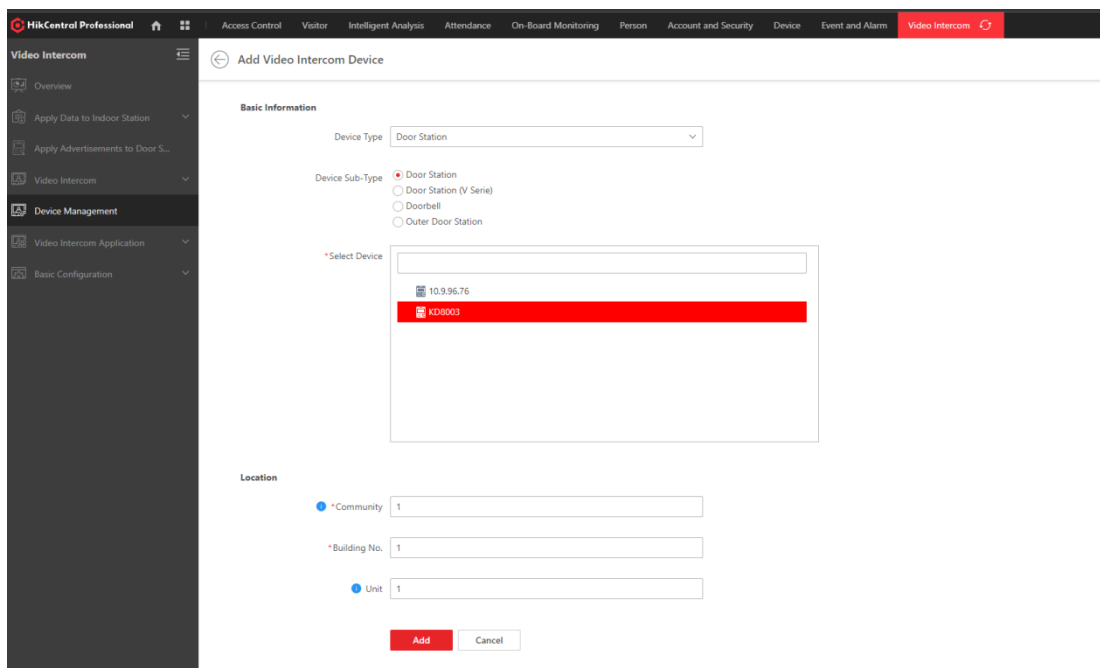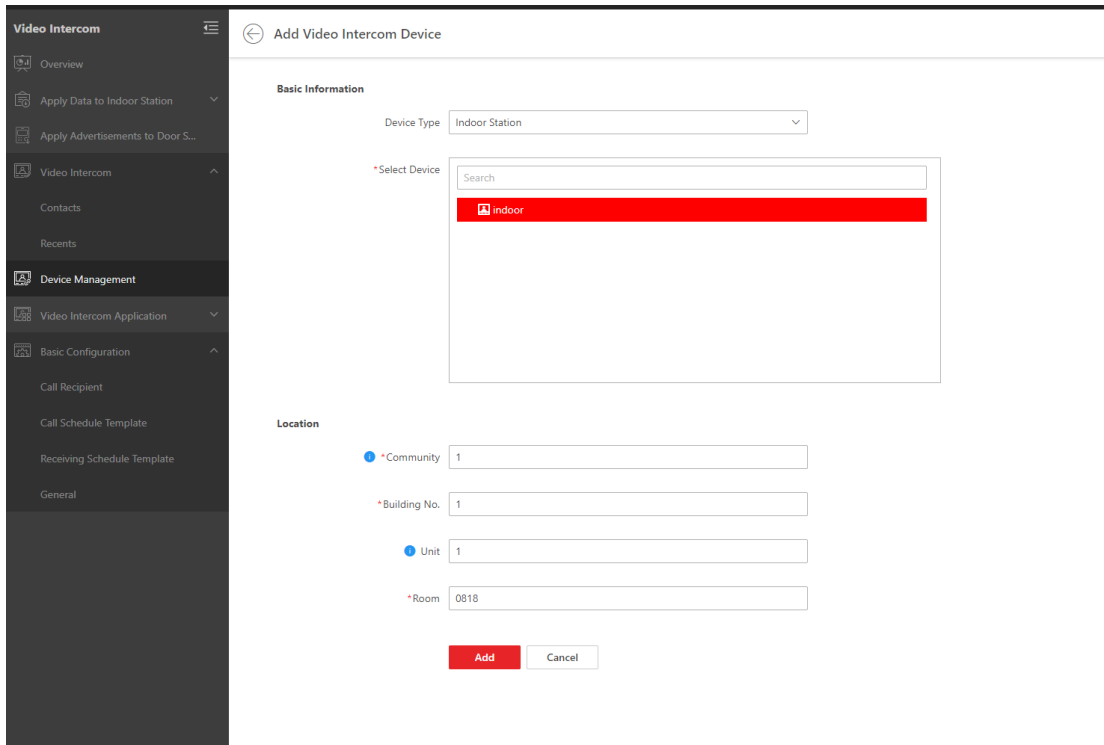

（2） Indoor device configuration

After adding the indoor device into the platform, go to 【Video Intercom】>>【Device Management】to configure the association between the host terminal and the video intercom, as well as the floor data of the host terminal unit.
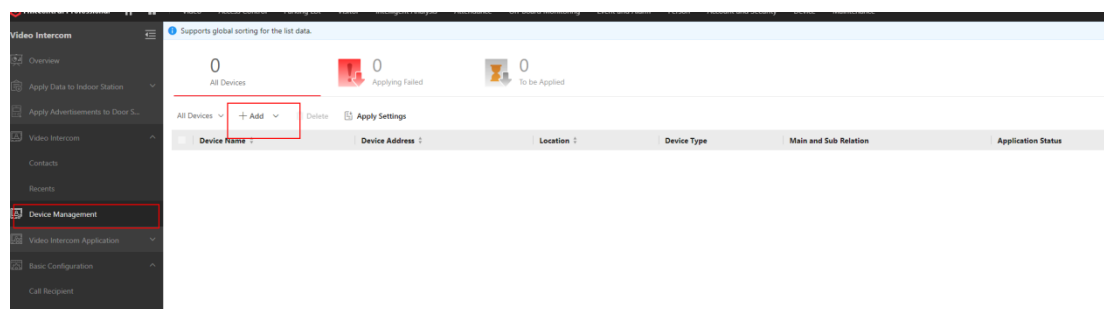
Add video intercom data:

Add indoor terminal data:

<mark>Note：</mark>

(1)The association of video intercom device of the platform is the set location information: Community/Building/Unit/Room. The management unit corresponds to a specific community, the door machine corresponds to a specific building and unit number, and the indoor machine corresponds to a specific room number.

For example, the location of the indoor unit is 1-1-1-0818, and its associated doorphone is 1-1-1, and the associated management machine is 1.

(2)The first two digits of the "Room" field of the indoor device are sent to the device as floor data, and the last three digits are sent as room number, for example: Room: 818, where 08 is the floor number and 818 is the room number. This floor information is applied for indoor unit elevator calling and doorphone calling indoor unit scenarios.
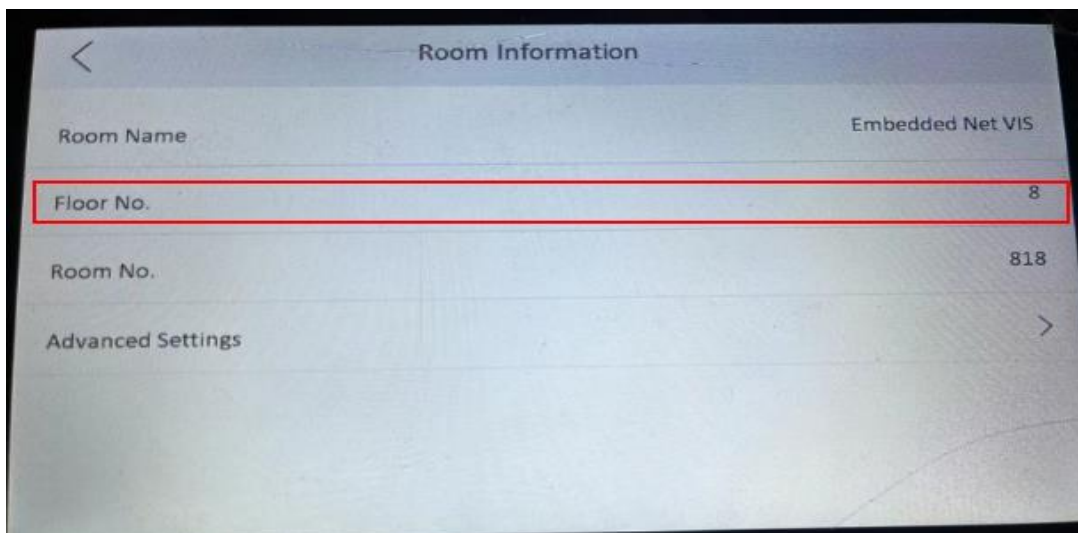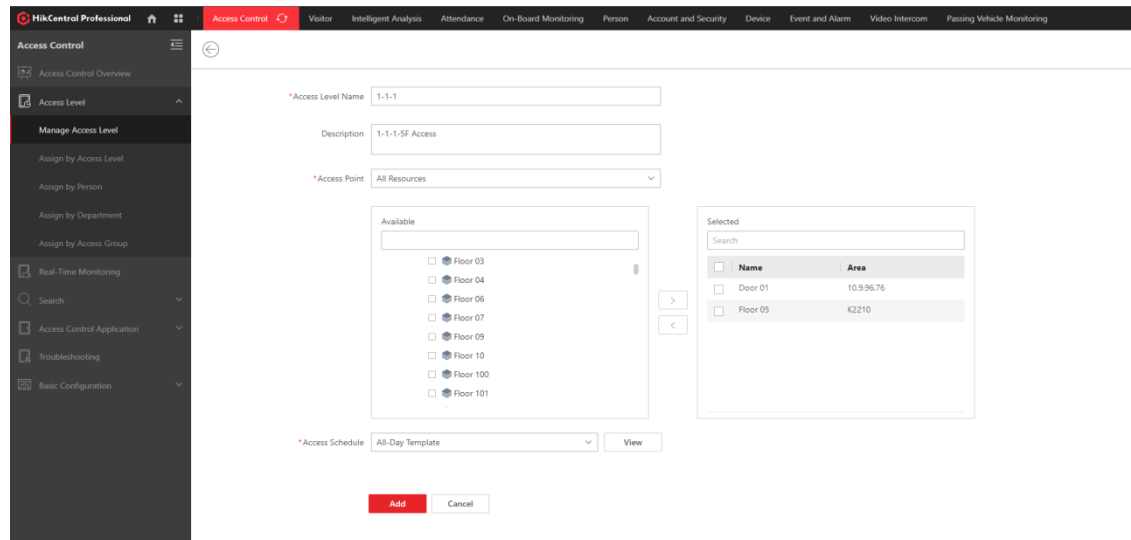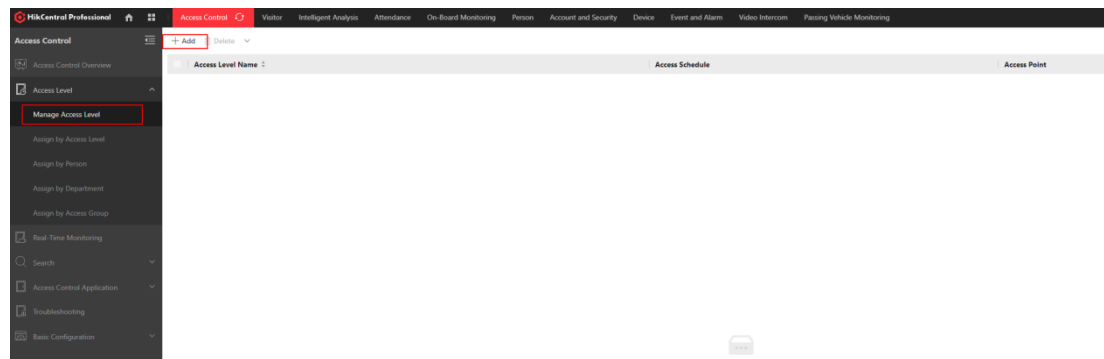
Apply the settings to devices.
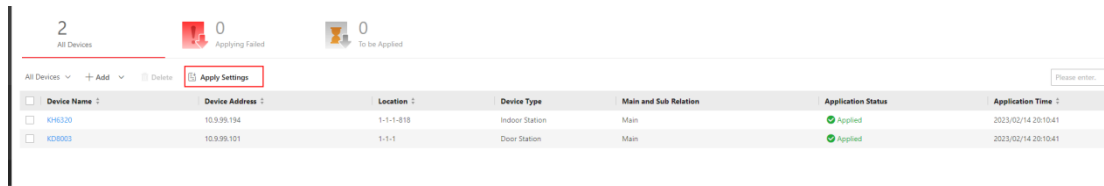
2.3   Associated permissions:

Go to【Access Control】>【Access Level】>【Manage Access Level】and click Add to add permission. Set the authorities according to the actual case. For example, set the permissions for the elevator control on the 5th floor as shown in the figure, and click Add to save.


Access authorities can be granted to corresponding personnel by the following 4 types of applications: Access Level, Person, Department, and Access group. Individual card numbers are allocated to the specific people.
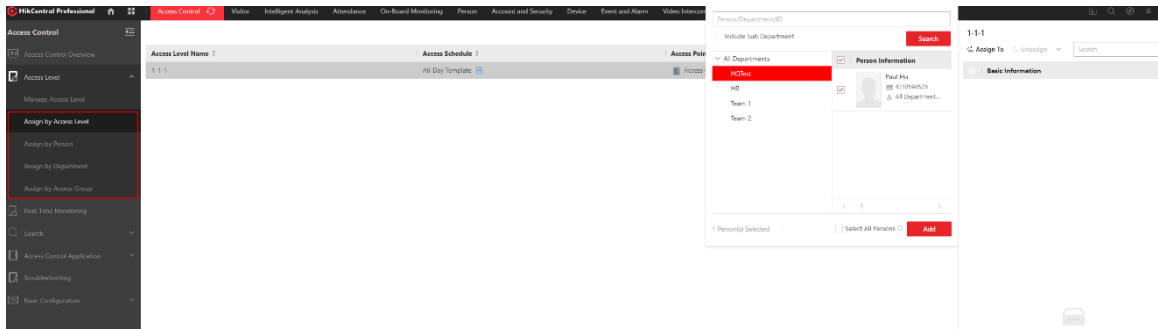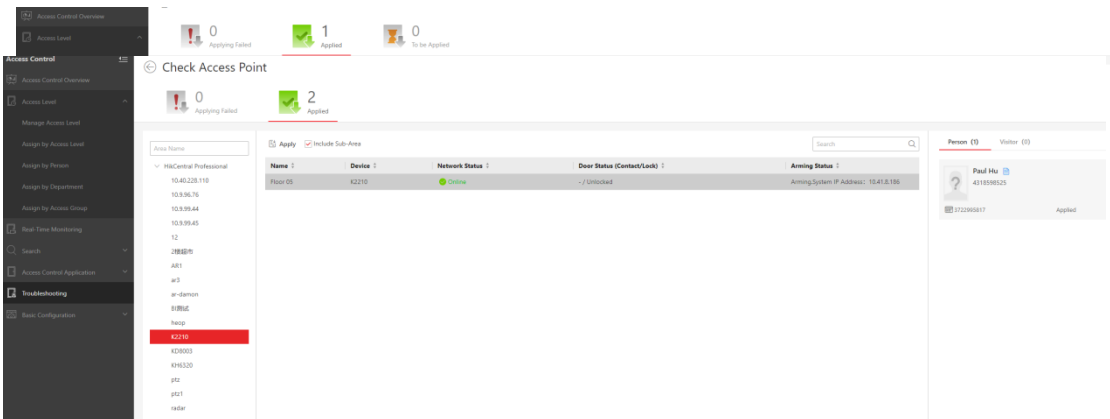
2.4   Troubleshooting:

Check if the level has been successfully apply. Go to 【Access Control】>【Troubleshooting】to check whether the personnel's authority has been successfully granted according to personnel or Accesslevel. If not, click Apply button to apply the authorty it again.
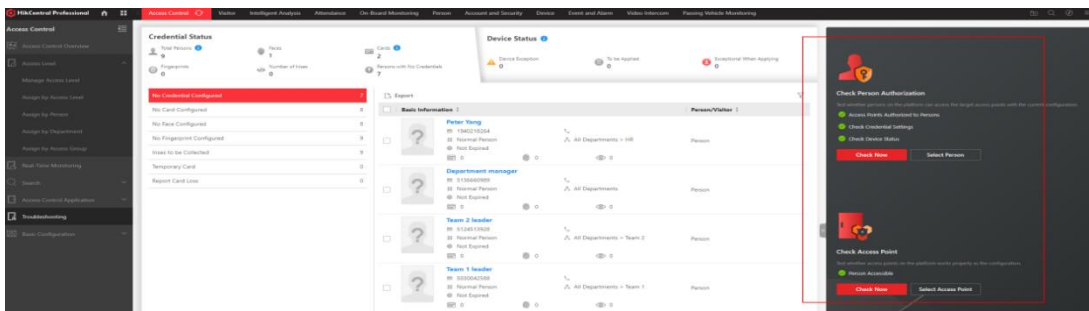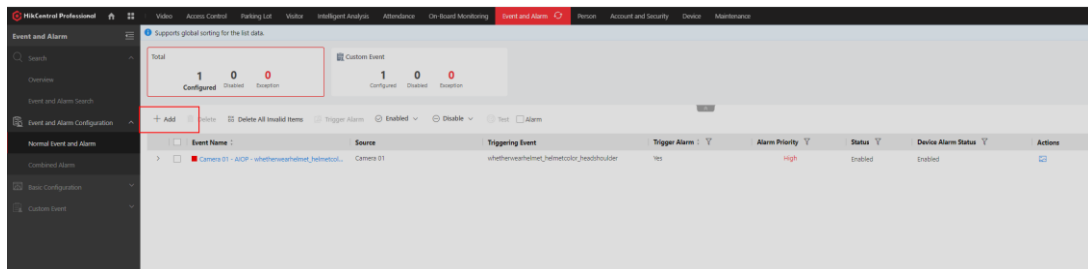

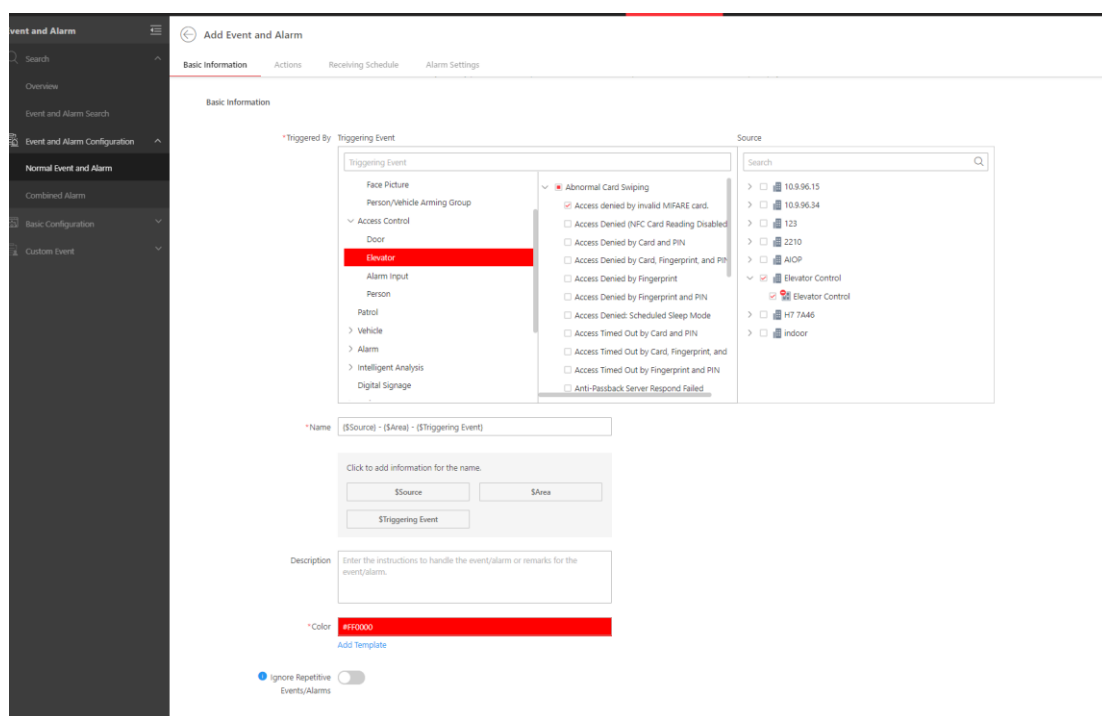(1)Query personnel authority.

(2)Query person with Access point

3   Elevator Alarm Configuration

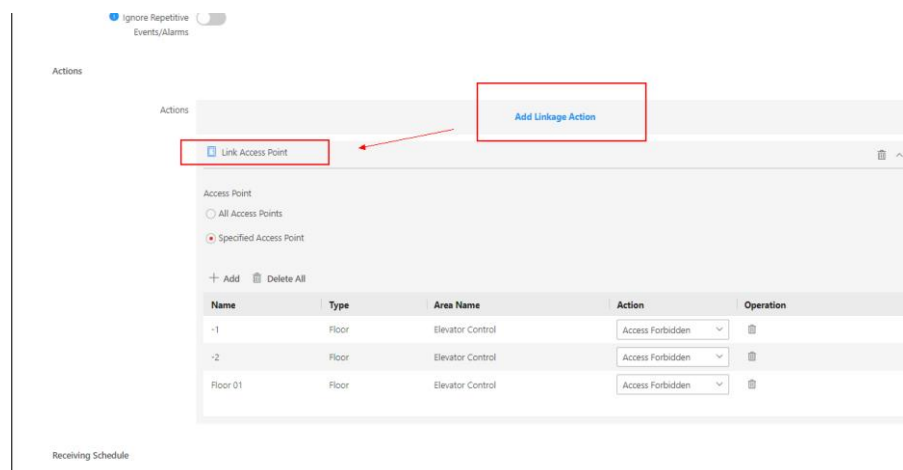Go to【Event and Alarm】 >>【Normal Event and Alarm】, click Add button to add alarm information.

(1)As the alarm source：

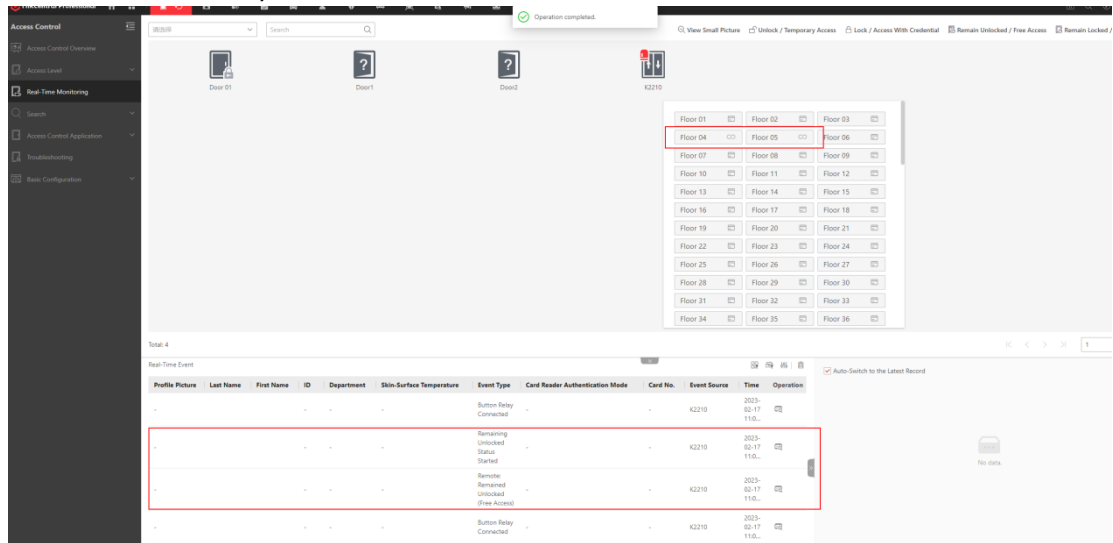Select event rules and resource points.

(2)As linkage device:


4   Function

4.1   Real-time monitoring

From WEB page:

Go to 【Access Control】>>【Real-time Monitoring】and click on the ladder control point to control the floor. And you can view Real-Time Event.

**From Control Client:**

Enter the 【Monitoring】page and click the elevator resource, you can also control the floor, associate the camera live view and playback, and view the real-time events.
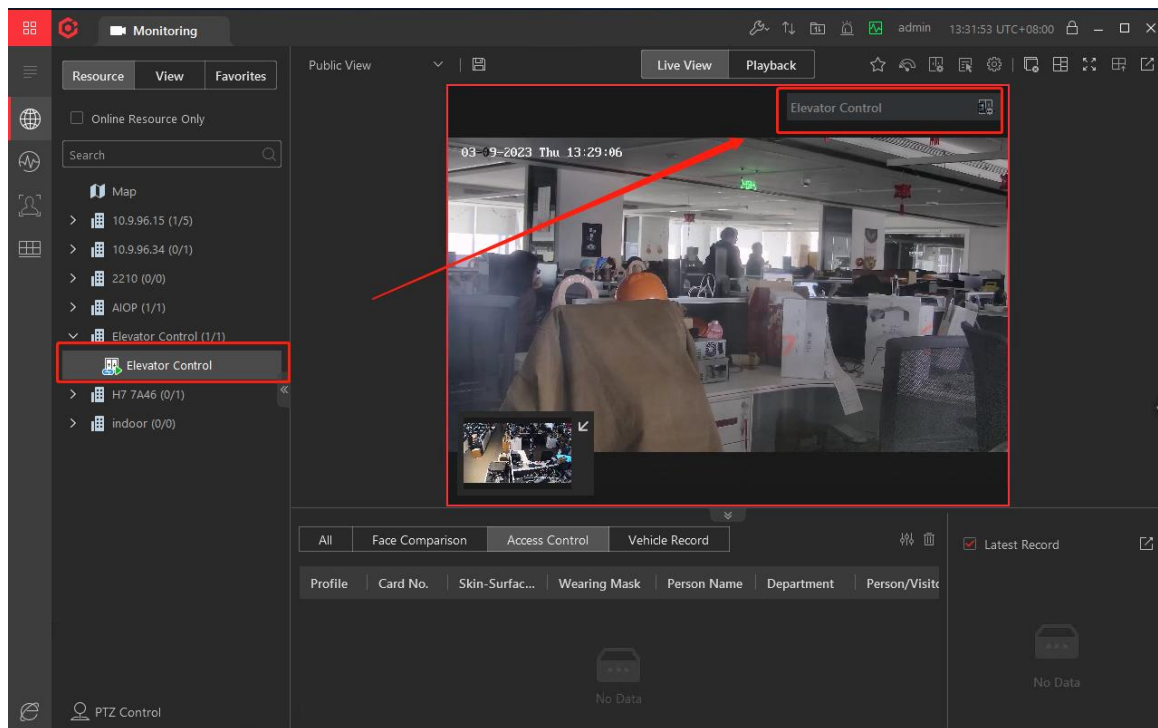
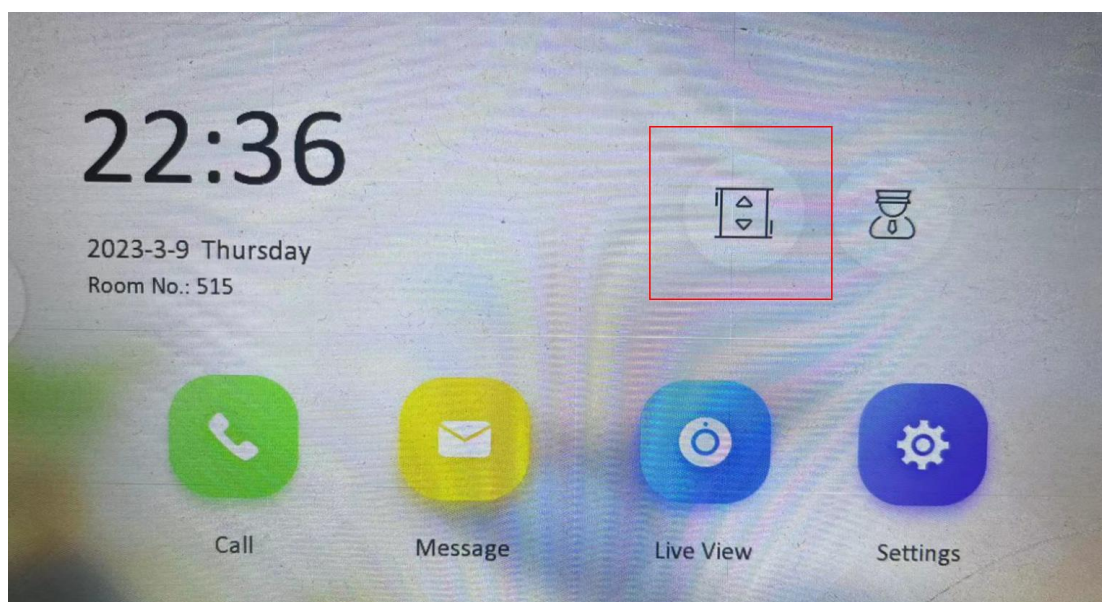## 4.2   Release floor authority after card reader swiping

A card reader is connected to the elevator control unit (DS-K2210), which allows the passengers to select the authorized storey manually or automatically.
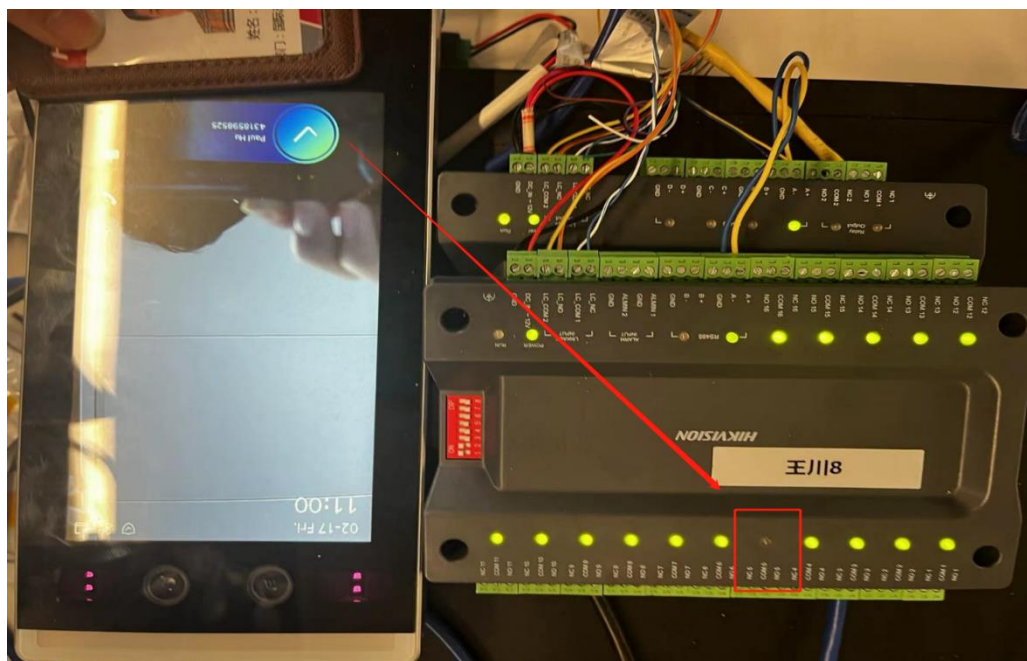
sits.)

4.3 Indoor elevator call

Click the call elevator button on the indoor unit page, and the elevator will automatically arrive at the floor.

4.4 Door station calls Indoor

Use the door station to call the indoor unit. The indoor unit unlocks and releases the authority of the floor