

## 梯控-可视对讲访客获得按键权限（接线和配置）

### Visitor gets button permission via elevator control and video intercom (wiring and configuration)

**实现功能：**访客用门口机呼叫室内机，室内机的开锁，室内机的所在楼层发送给门口机，门口机发送给梯控楼层信息，梯控的楼层联动对应的继电器输出。

Realized functions: the visitor uses the door station to call the indoor station, the indoor station is unlocked, the floor of the indoor station is sent to the door station, the door station sends the floor information of the elevator control, and the corresponding relay output of the elevator-controlled floor linkage is output.


#### 准备：

##### Prepare:

主控模块 DS-K2210、分控模块 DS-K2M0016A 和可视对讲门口机 DS-KD8003-IME1 及室内机 DS-KH6320-WTE1。

Main control module DS-K2210, sub-control module DS-k2M0016A, video intercom door phone DS-KD8003-IME1 and indoor unit DS-KH6320-WTE1.

DS-K2M0016A Access Control Products > Controllers > Pro Series >




#### Elevator Sub-Controller

- Distributed elevator controller
- Connectable with up to 16 relays to control floor buttons in the elevator
- RS-485 communication with the master elevator controller
- DIP switch settings for device address and relay types
- Up to 8 distributed elevator controllers can be linked to the master elevator controller
- Control the elevator via the relay

Available models:  
DS-K2M0016A

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DS-K2210 Access Control Products > Controllers > Pro Series >




#### Elevator Master Controller

- Master elevator controller
- Control 128 floors' permissions
- 20,000 cards and 50,000 events storage
- Uplink Communication: TCP/IP and RS-485
- Multiple authentication modes
- Configure and manage device via web client and client software
- Watchdog and tamper-proof function
- Accessible Card Reader: 2 Wiegand readers or 2 RS485 readers

Available models:  
DS-K2210

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DS-KD8003-IME1 Video Intercom Products > IP Series > Pro Series >



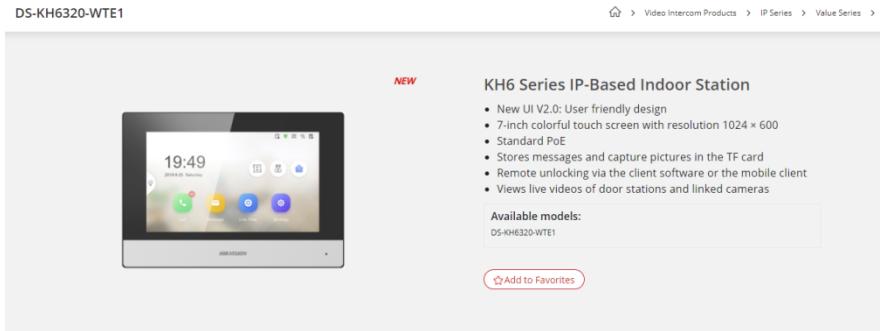
**NEW**

#### KD8 Series Pro Modular Door Station

- Modular door station Main unit, needs mounting bracket
- 2MP HD Colorful Camera, Fish eye, IR Supplement
- 1 Call physical Button, 2 lock relays, 4-ch alarm input
- IP65, 12 VDC or standard POE
- Video intercom to indoor station and master station

Available models:  
DS-KD8003-IME1      DS-KD8003-IME1-KX/surface  
DS-KD8003-IME1-KX/flush      DS-KD8003-IME1

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## 1、海康设备接线：

### 1. Hikvision equipment wiring:

**第一步：**各自提供电源给设备供电。

Step 1: Provide power to the device individually.

**第二步：**主控与分控接法：主控 DS-K2210 的联动输出端一一对应接到分控 DS-K2M0016A 的联动输入端口。分控 485 接口 A+、A- 接到主控 485 接口 A+、A-。

Step 2: the connection method of the main control and the sub-control: the linkage output of the main control DS-K2210 is connected to the linkage input port of the sub-control DS-K2M0016A one by one. The sub-control 485 ports A+ and A- are connected to the main control 485 ports A+ and A-.

**第三步：**可视对讲设备各自连在一个局域网内，后面需要门口机通过 IP 添加注册梯控和室内机。

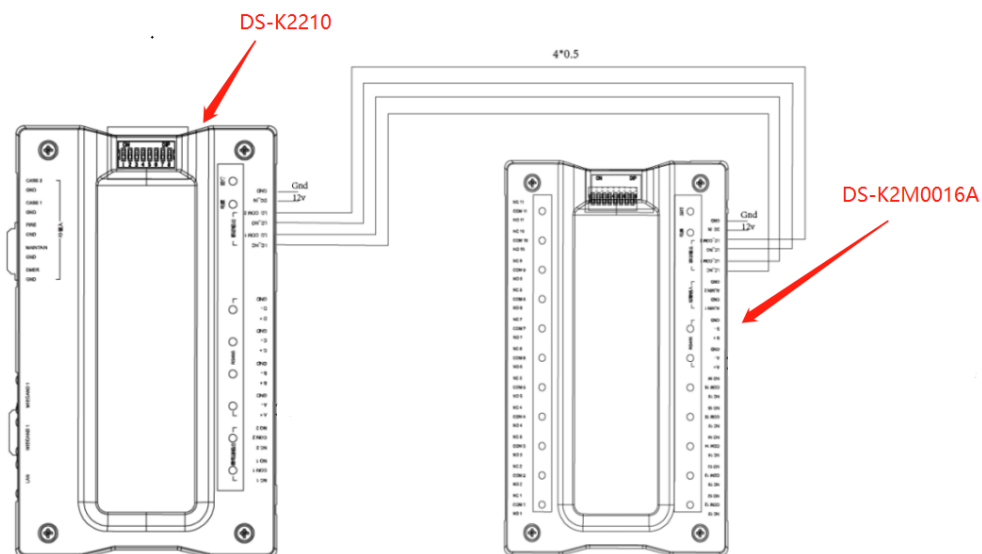
Step 3: The video intercom devices are each connected to a local area network, and the door station needs to add registered elevator control and indoor station through IP.

具体接线示意图如下，可详见 QSG。

The specific wiring diagram is as follows, please refer to QSG for details.



UD03825B-C\_Main Elevator Contro

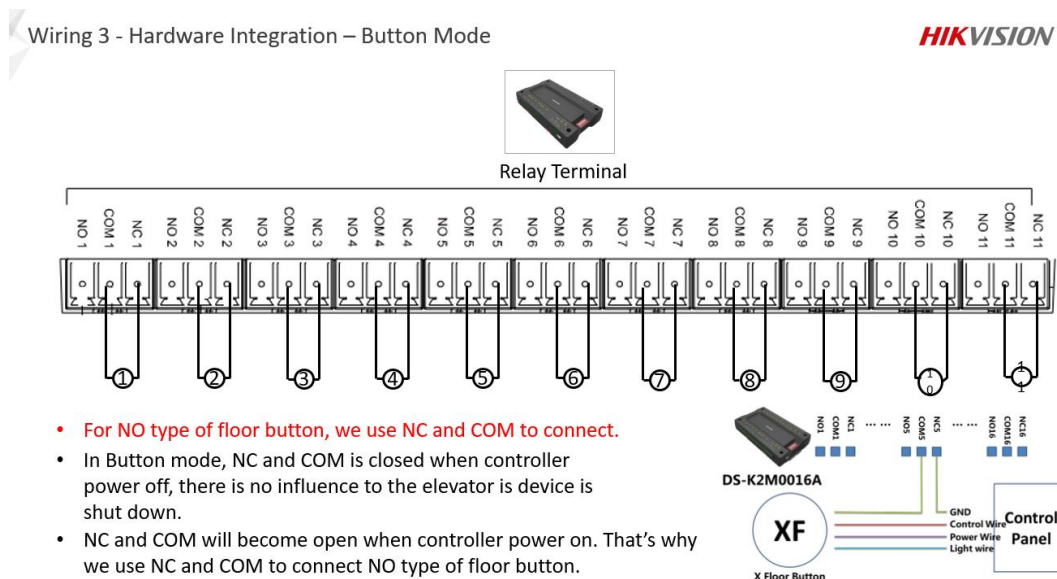
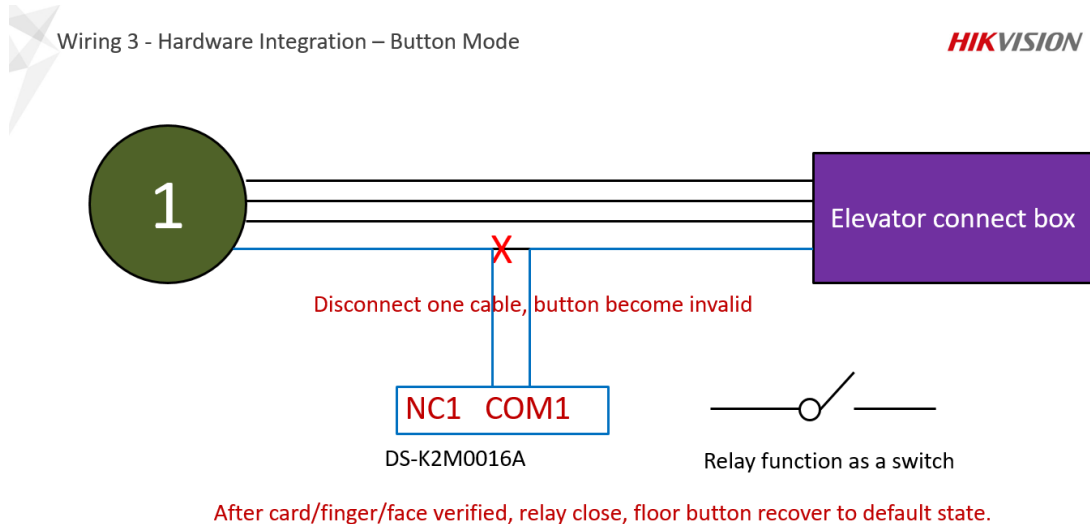


**Note:** 主控不用拨，分控按键模式拨码 3-10，可以选择拨 3，读卡器 485 拨码为 1 或 2。

**Note:** The main control does not need to be dialed, the sub-control button mode dials 3-10, you can choose to dial 3, and the card reader 485 dials to 1 or 2.

## 2、分控继电器端子和电梯按钮接线：

### 2. Sub-control relay terminal and elevator button wiring:

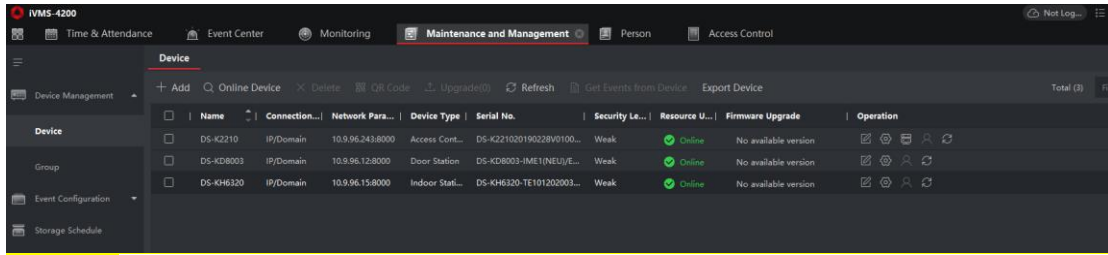


## 3、配置

### 3. Configuration

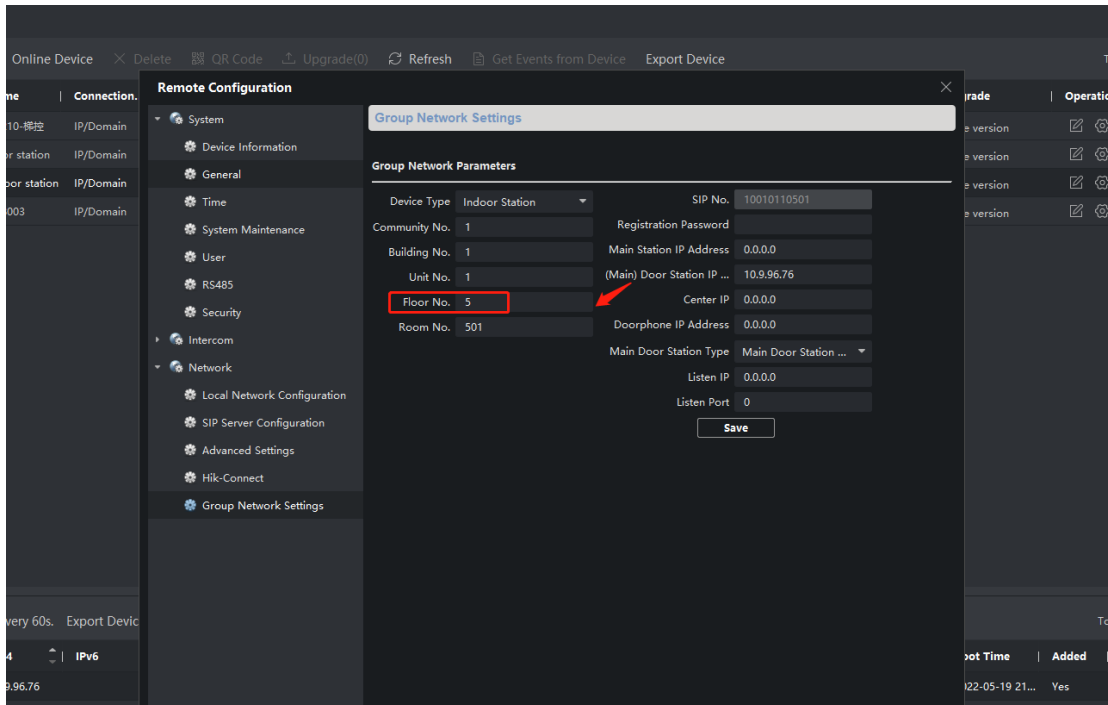
**第一步:** K2210、KD8003、KH6320 添加至 4200 平台

Step 1: add K2210, KD8003, KH6320 to the 4200 platform



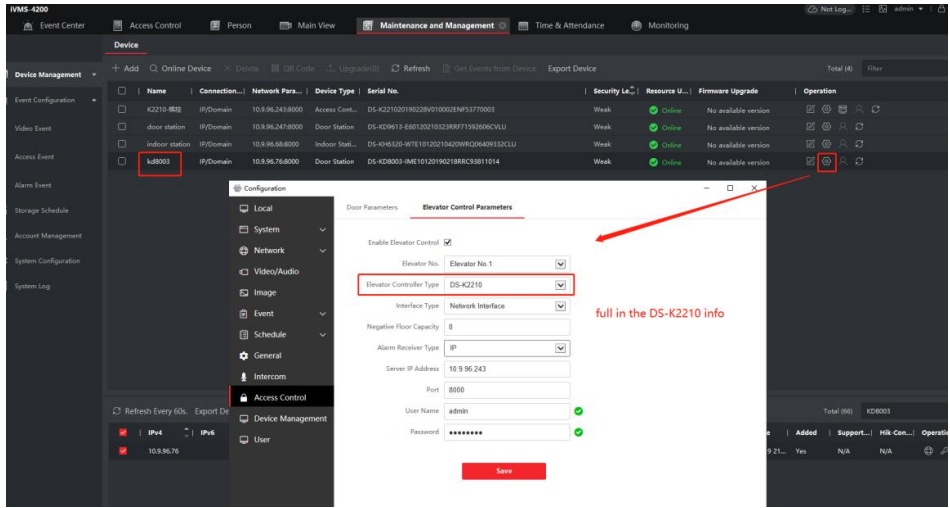
**第二步:** 室内机注册到门口机。室内机的房间号 Floor No 必须要注意，访客用门口机呼叫室内机，室内机的开锁，室内机的所在楼层发送给门口机，门口机发送给梯控楼层信息，梯控的楼层联动对应的继电器输出。

Step 2: Register the indoor station to the door station. The room number of the indoor unit, Floor No, must be noted. The visitor uses the door station to call the indoor station, the indoor station is unlocked, the floor where the indoor station is located is sent to the door station, and the door station sends the floor information of the elevator control, and the floor linkage corresponding to the elevator control corresponds to Relay output.



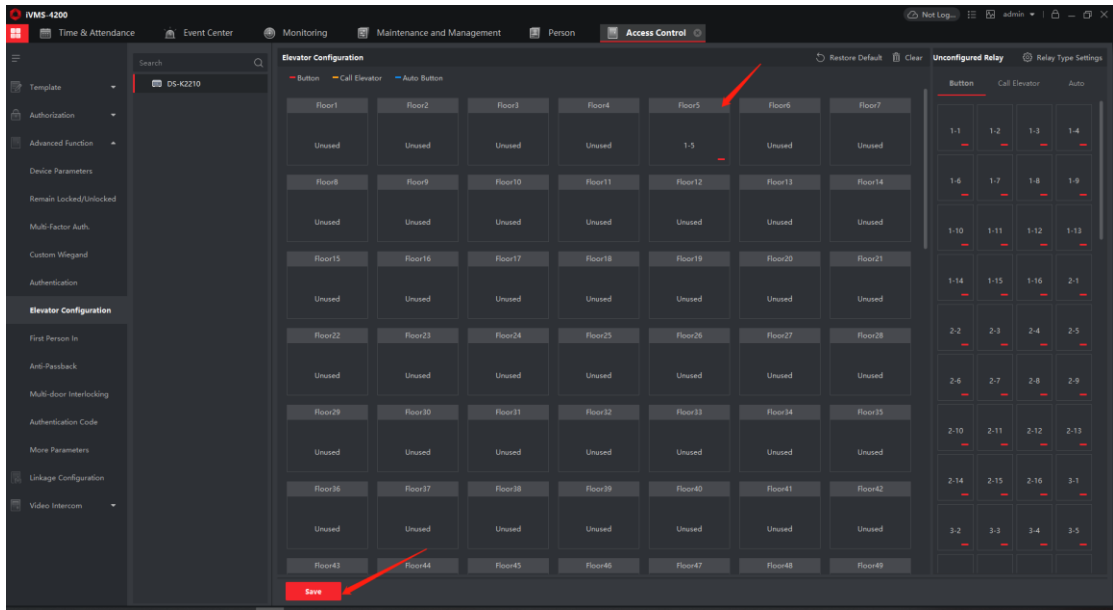
**第二步:** 门口机添加主控 K2210。

Step 2: Add the main control K2210 to the door station.



**第三步:** 进入门禁模块，高级门禁参数的 elevator configuration 把分控的按钮继电器拖到对应的楼层权限上，点击 save。

Step 3: Enter the access control module, in the elevator configuration of the advanced access control parameters, drag the button relay of the sub-control to the corresponding floor authority, and click save.



**Note:** 左边是为楼层、右边为分控的继电器，通过楼层事件联动对应继电器。

**Note:** The left side is the floor and the right side is the sub-control relay. Corresponding relays are linked through floor events.

1-1: 表示第一个按键模式分控第一个继电器，一共可接 8 个按键分控。

1-1: Indicates that the first relay in the first button mode is sub-controlled, and a total of 8 buttons can be sub-controlled.

9-1: 表示第一个呼梯模式分控第一个继电器，一共可接 8 个呼梯分控。

9-1: Indicates the first relay of the first call mode sub-control, a total of 8 call sub-controls can be connected.

17-1: 表示第一个自动模式分控第一个继电器，一共可接 8 个自动分控。

17-1: Indicates the first relay of the first automatic mode sub-control, a total of 8 automatic

sub-controls can be connected.

## 4、验证

### 4. Verify

访客用门口机呼叫室内机，室内机的开锁，室内机的所在楼层发送给门口机，门口机发送给梯控楼层信息，梯控的楼层联动对应的继电器输出。

下图为刷卡认证通过，楼层权限 floor5 联动对应的继电器输出。(继电器一直保持连接状态)

The visitor uses the door station to call the indoor station, the indoor station is unlocked, the floor where the indoor station is located is sent to the door station, the door station sends the floor information of the elevator control, and the corresponding relay output of the elevator-controlled floor linkage is output.

The figure below shows the relay output corresponding to the linkage of the floor authority floor5 when the card swipe authentication is passed. (The relay remains connected all the time)

Index	Event Source	Event Type	Event Time	Priority	Event Details	Status
8	Door Station:Id8003 Camera1_Id8003	Video Intercom Unlocking	2022-05-19 21:44:42	Uncategorized	Linked Camera Camera1_Id8003 Unlock by Resident 1...	Unacknowledged
7	Access Control Device:K2210-梯控 Floor5	Button Relay Connected	2022-05-19 21:59:10	Uncategorized	Floor5	Unacknowledged
6	Access Control Device:K2210-梯控	Remote Login	2022-05-19 21:59:09	Uncategorized	K2210-梯控	Unacknowledged
5	Access Control Device:K2210-梯控	Remote Logout	2022-05-19 21:59:09	Uncategorized	K2210-梯控	Unacknowledged
4	Access Control Device:K2210-梯控 Floor5	Remote Open Door	2022-05-19 21:59:09	Uncategorized	Floor5	Unacknowledged
3	Access Control Device:K2210-梯控	Remote Logout	2022-05-19 21:59:09	Uncategorized	K2210-梯控	Unacknowledged
2	Access Control Device:K2210-梯控	Remote Login	2022-05-19 21:59:09	Uncategorized	K2210-梯控	Unacknowledged
1	Access Control Device:K2210-梯控 Floor1	Call Elevator (Resident)	2022-05-19 21:59:09	Uncategorized	Floor1	Unacknowledged



Index	Event Source	Event Type	Event Time	Priority	Event Details	Status
7	Door Station-kd8003 Camera1_kd8003	1 Video Intercom Unlocking	2022-05-19 22:04:57	Uncategorized	Linked Camera Camera1_kd8003 Unlock by Card_test_...	Unacknowledged
6	Access Control Device-K2210-楼层	Remote: Logout	2022-05-19 22:19:26	Uncategorized	K2210-楼层	Unacknowledged
5	Access Control Device-K2210-楼层	Remote: Login	2022-05-19 22:19:26	Uncategorized	K2210-楼层	Unacknowledged
4	Access Control Device-K2210-楼层 Floor5	Remote: Open Door	2022-05-19 22:19:26	Uncategorized	Floor5	Unacknowledged
3	Access Control Device-K2210-楼层	Remote: Logout	2022-05-19 22:19:26	Uncategorized	K2210-楼层	Unacknowledged
2	Access Control Device-K2210-楼层 Floor1	2 Call Elevator (Resident)	2022-05-19 22:19:26	Uncategorized	Floor1	Unacknowledged
1	Access Control Device-K2210-楼层	Remote: Login	2022-05-19 22:19:26	Uncategorized	K2210-楼层	Unacknowledged

relay connected event not produce

## 异常排查

### Troubleshooting

访客呼叫室内机后，室内机主人按锁开门后，访客没有获得相应楼层按钮权限问题。需要门口机端复现问题日志和设备抓包。确认室内机注册的时候是否有楼层号下发到门口机  
门口机开放命令如下：

TMOUT=0

outputOpen

setDebug -d 111 -l 7 -m PERMISSION

开放命令完成后，需要重新室内机发起注册操作来记录日志和抓取设备包。



tftpd64.exe



tcpdump\_H10

**Note:**如果是 SSH 方式采集，请使能 SSH。门口机抓包文件需要向研发或技术支持索要找到对于的平台抓包文件。