HIKVISION

First Choice for Security Professionals

Video Intercom System Introduction

CONTENTS

- Application
- Products
- Installation
- Operation

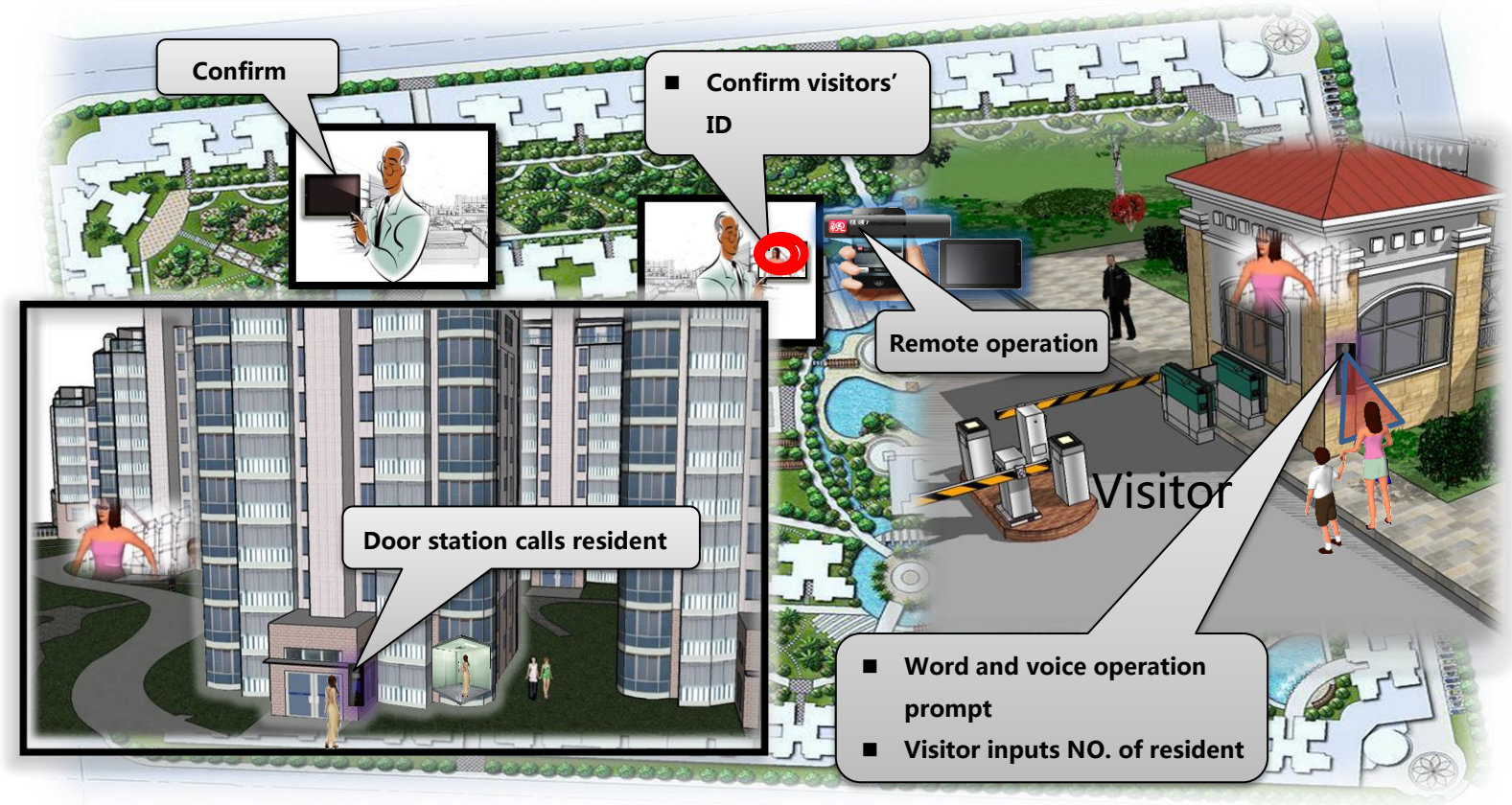
Video Intercom System

Service for residential area,
Provide two-way video/audio call between visitors and residents,
Achieve image and voice recognition,
Increase the safety and reliability

Video Intercom System – Community

Video Intercom System – Villa

Application -- Community



Fundamental – Video/Audio Call

NOTE:

Live View & Locks signaling

Calling signaling

CONTENTS

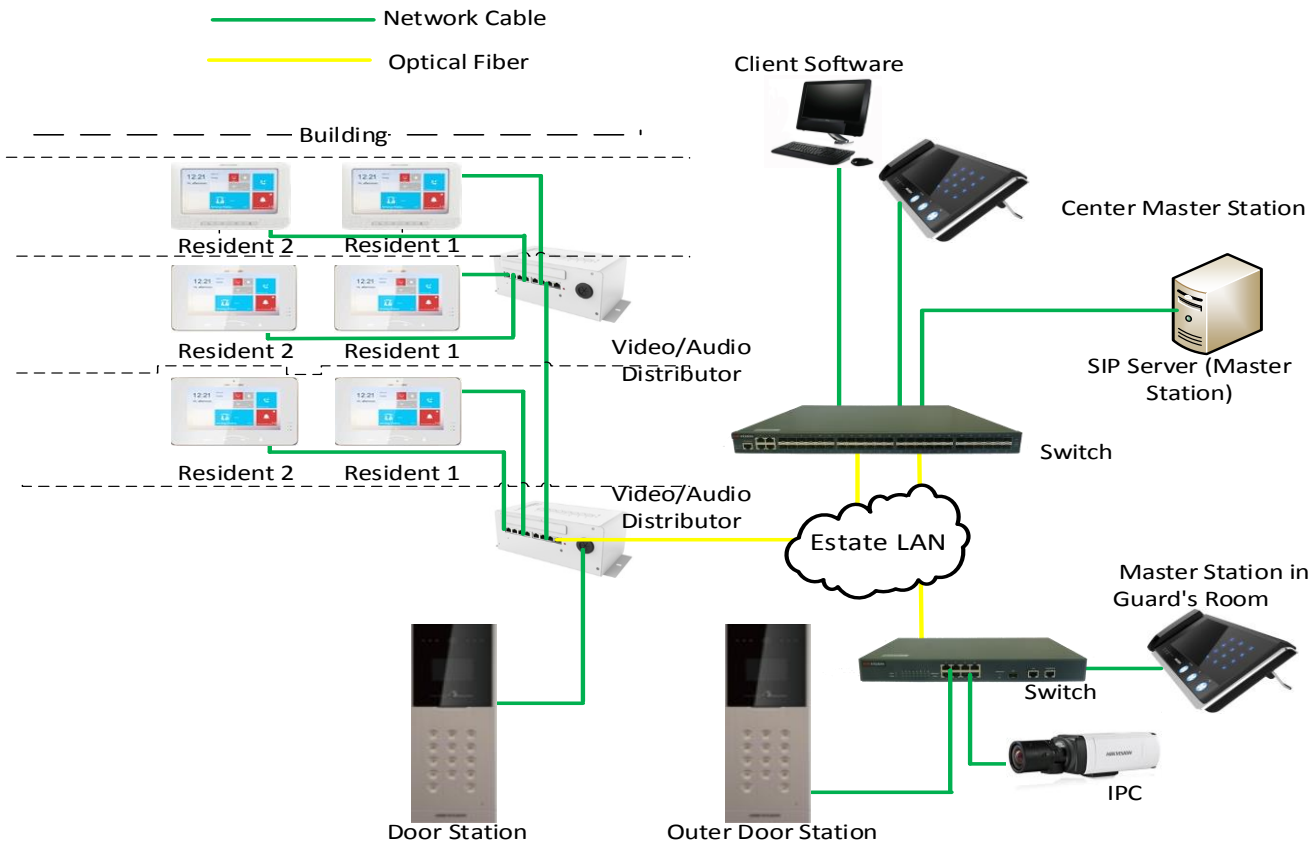
- Application
- **Products**
- Installation
- Operation

Products

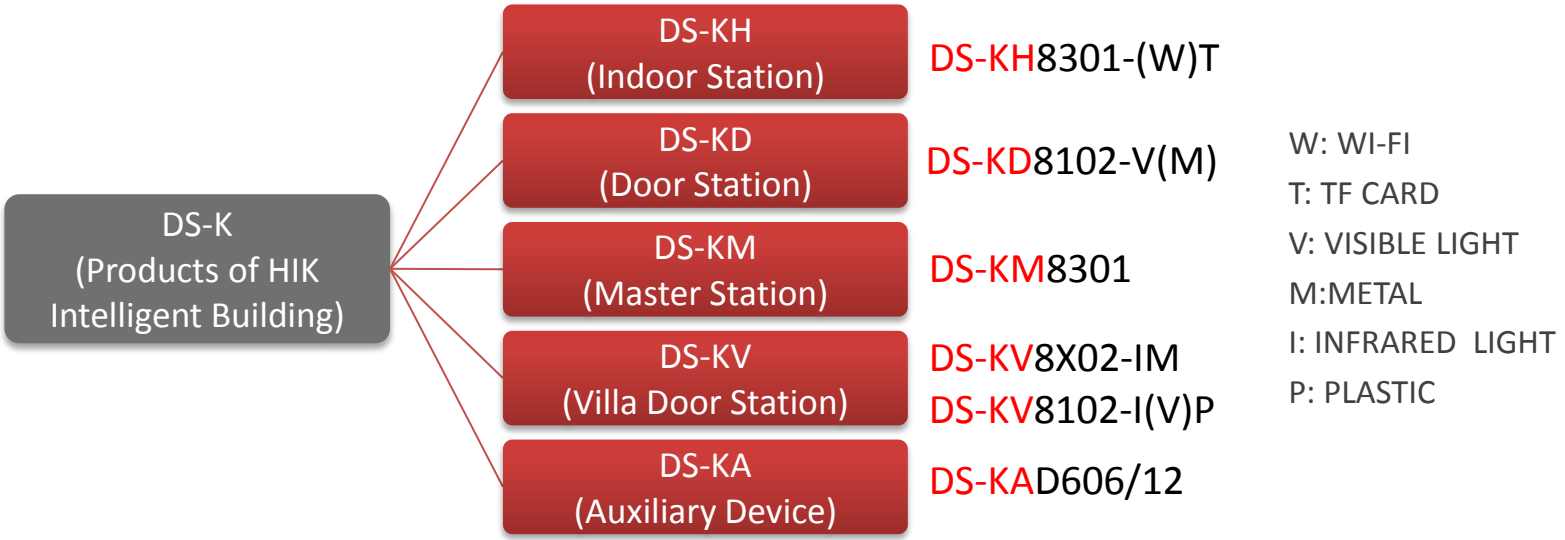
Professional-Level

Entry-Level

Products – Structure



Products – Naming Rule



Products – Indoor Station

1024*600 7-Inch LCD	
0.3 MP CMOS	8 Zones
32G TF Card	Switch for Privacy Protection

Products – Indoor Station

Video Intercom	
16 Channels	Extension
Leave Audio Message	Hik SIP Hik PoE

Products -- Indoor Station

DS-KH8301-(W)T

1024*600 7-Inch LCD	
0.3 MP CMOS	**Touch Button**
32G TF Card	**2* RS485 Port**

Products – Indoor Station

8 series indoor station

TF Card 32G:

- Leave message information
- Notice picture
- Capture picture

Products -- Door Station

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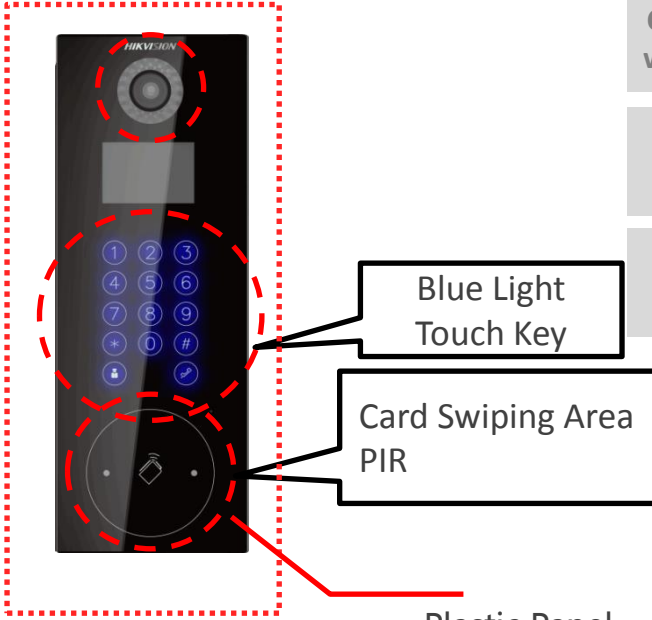
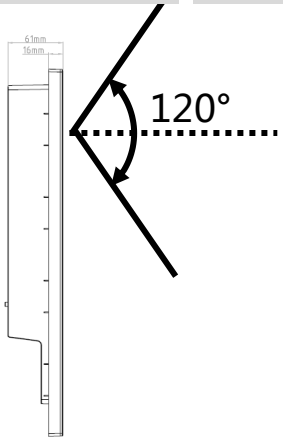
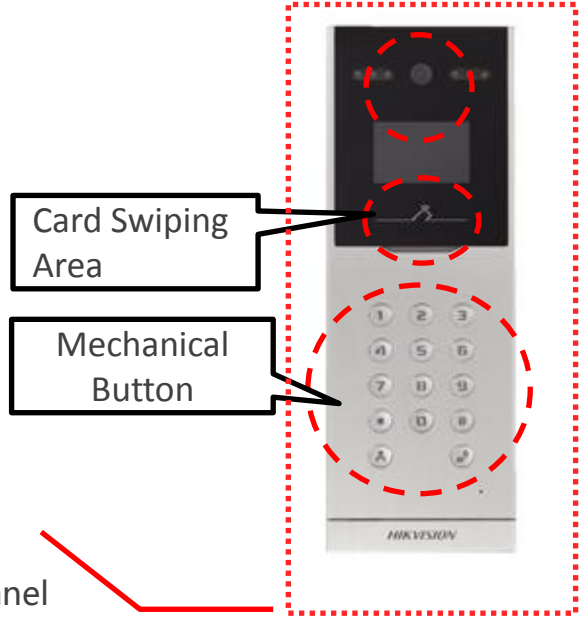
1.3 MP CMOS 120° WDR	Intelligent Light Supplement
Capture Picture when Unlocking	Issuing Card Locally
Noise Suppression & Echo Cancellation	
IP 65	Tamper-Proof



DS-KD8102-V





DS-KD8002-VM

Products – Villa Door Station

DS-KV8202-IM **DS-KV8402-IM**

Villa Door Station

Double-button for town house

Four-button for one building with four residents or multi-tenant

NOTE: Villa door station can also works as sub villa door station, when installed on other entrance of house.

Products – Villa Door Station

DS-KV8102-IM

DS-KV8102-IP **DS-KV8102-VP**

Single-button villa door station

Two ways of use:

- When installed outside of house

  --> villa door station: call residents

- When installed outside of apartment

  --> doorphone: confirm identification again

Products -- Door Station

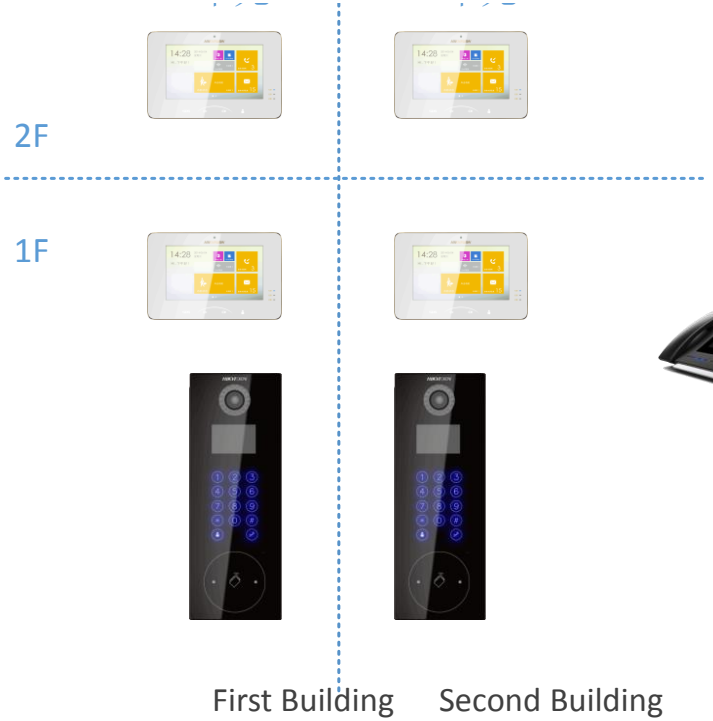
Apartment	3.5’ LCD 480*320	Visible Light	Issue 2500 Card	8 Sub-stations	NO POE
House/ Multi-tenant	NO LCD	Visible Light	Issue 256 Card	6 Sub-stations	HIK POE
House	NO LCD	Visible/ Infrared	Issue 256 Card	6 Sub-stations	HIK POE

Built –in Mifare 1 Reader
External Card Reader
Lock Control
Door Magnetic Detection

Products -- Master Station

1024*600 7-Inch LCD	Video Intercom
SIP Function, Support 1500 Apartments	Remote Unlocking Door
Alarm Processing Function	External Handset Touch Screen & Key

Products -- Master Station(SIP Server)



Video intercom between two stations

- When 2 indoor stations in one building ,
  --> door station transmitting
- When 2 indoor stations in different buildings ,
  --> SIP Server transmitting
- When video intercom between door station and master station
  --> SIP Server transmitting
- When video intercom between indoor station and master station
  --> SIP Server transmitting

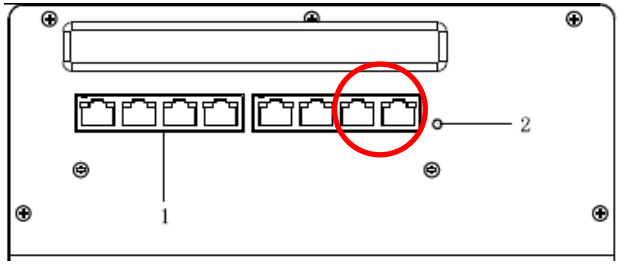
Products – Video/Audio Distribtor

DS-KAD606/612

Video/Audio Distributor

Power supply for indoor station and villa door station over network cable, also named HIK POE, not standerd

Products – Video/Audio Distributor



DS-KAD606

LAN * 2 : cascading LAN interface,

Cascading amount up to 4

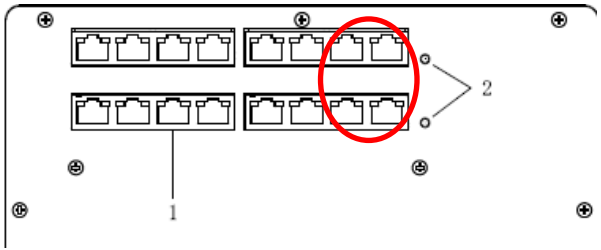
POE * 6 : Power supply for indoor station and villa door station

DS-KAD612

LAN * 4: cascading LAN interface,

Cascading amount up to 8

POE * 12 : Power supply for indoor station and villa door station



Products – Power Supply

DS-KAW50-1

Power supply for door station

Input Voltage: 100 -- 240 V

Output Voltage: 12V

Output Power: 50W

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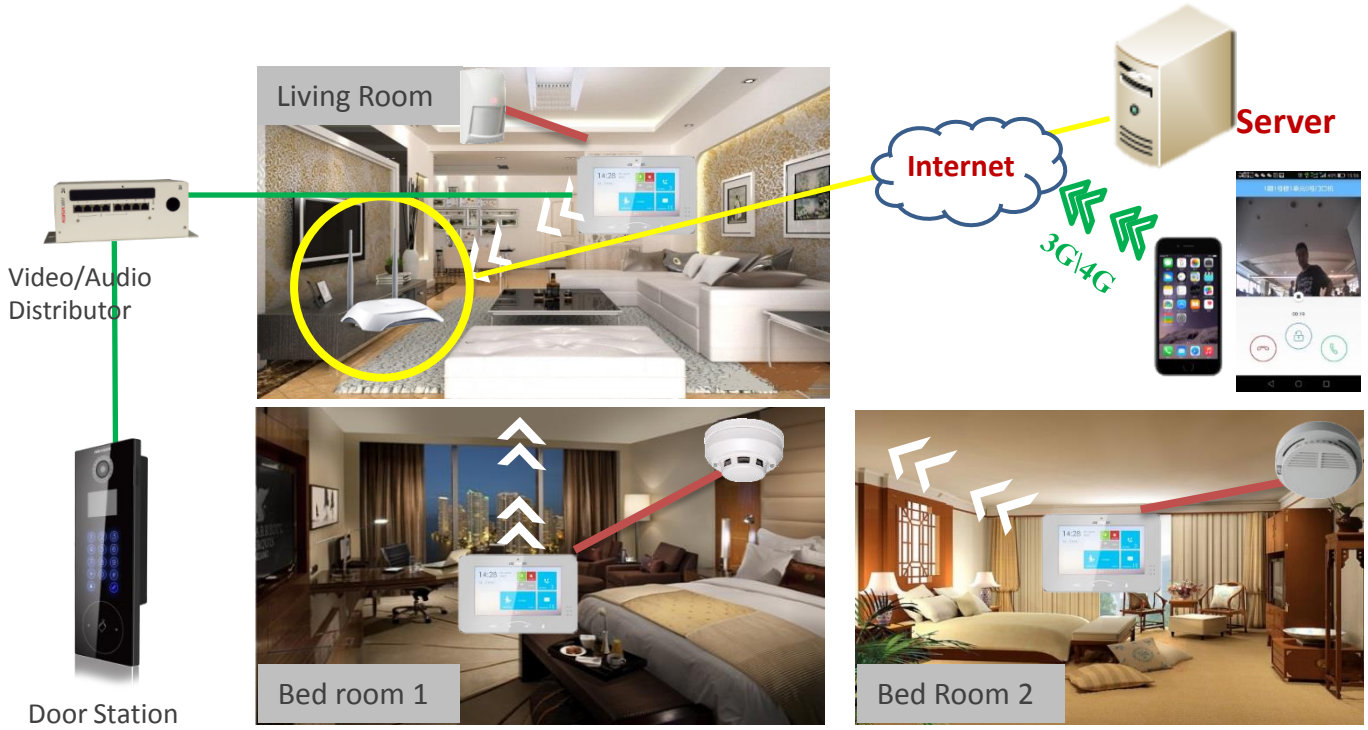
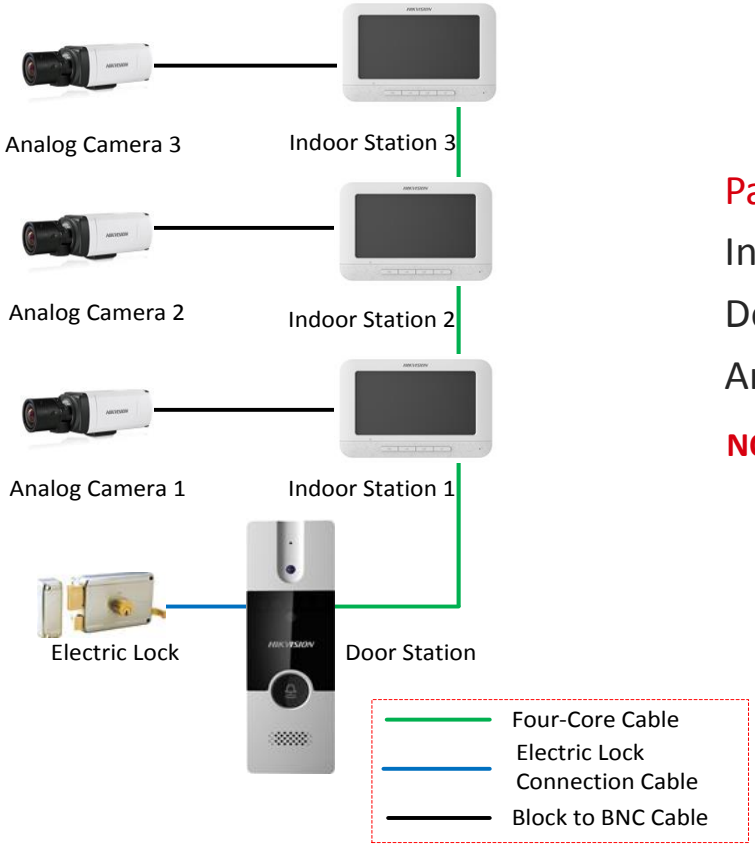

Living Room
Server
Internet
3G\4G
Video/Audio
Distributor
Door Station
Bed room 1
Bed Room 2

New Products – Structure



Package：

Indoor station: **DS-KH2200**

Door Station： **DS-KB2411-IM**

Analog Camera： **DS-2CE16A2P-IT3**

NOTE: DS-KB2411-IM, B means bell

New Products – Indoor Station

DS-KH2200

- 7-Inch Colorful TFT LCD
- Physical Button
- Remote unlocking
- Up to three indoor station cascading
- Monitoring door station and analog camera

New Products – Door Station

DS-KB2411-IM

- Pinhole camera with 720 x 576 @ 25 fps
- Photosensitive IR Supplement (2m)
- Unlocking control
- Up to two door station cascading
- Anti-oxidant aluminium alloy

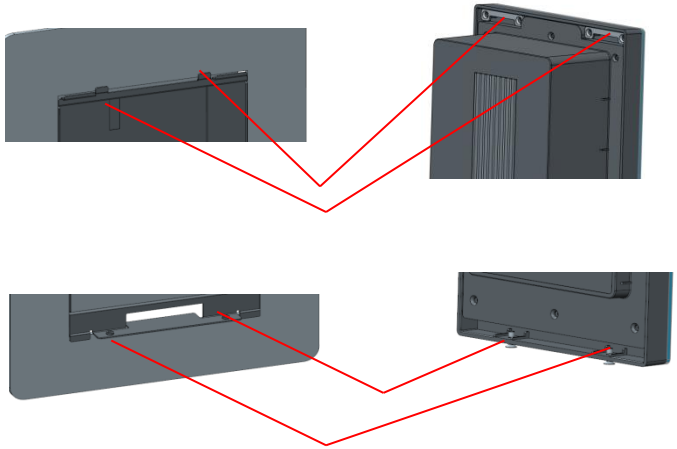
CONTENTS

- Application
- Products
- INSTALLATION
- Operation

Door Station -- Installation

Door Station

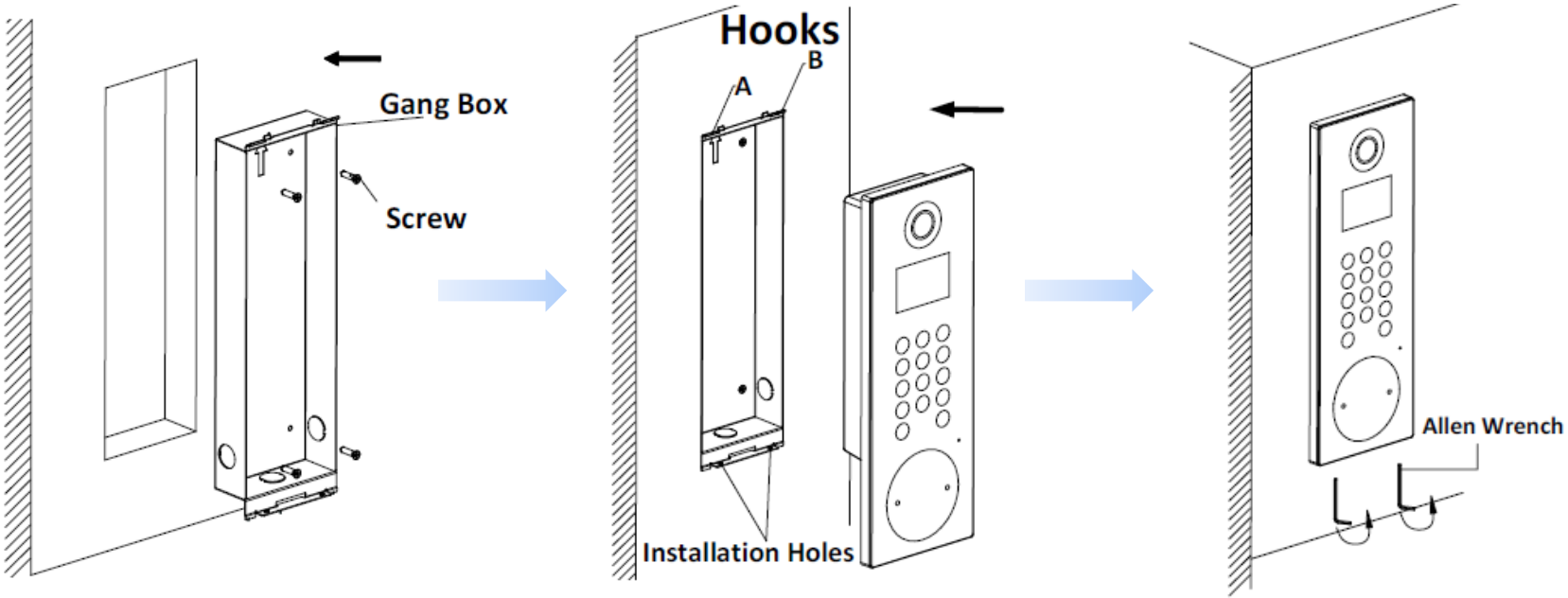
Dimensions: more than 405*124*66(mm)



Door Station -- Installation

Door Station: DS-KD8102-V

Hole Dimensions: 123 (Wide) * 404(Length) *47.5(Depth) mm



Step 1

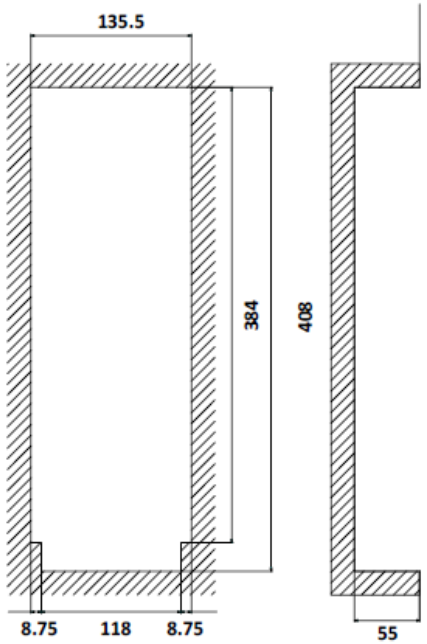
Step 2

Step 3

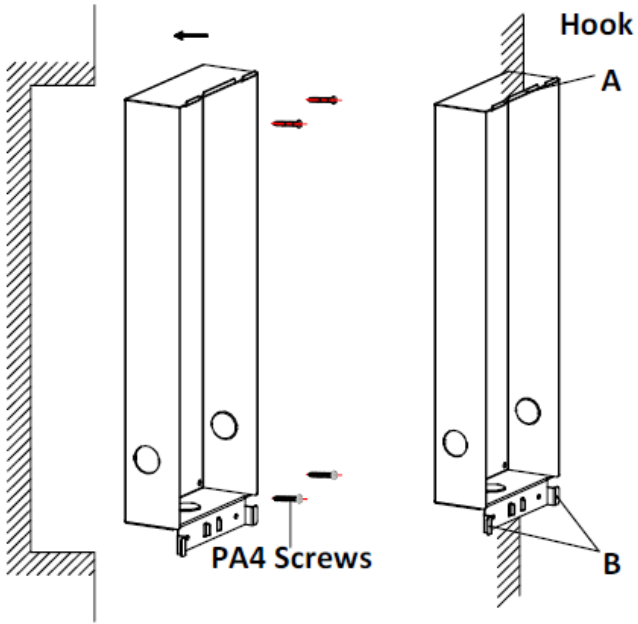
Door Station -- Installation

Door Station: DS-KD8002-VM

Hole Dimensions: 135.5 (Wide) * 408(Length) *55(Depth) mm



Step 1

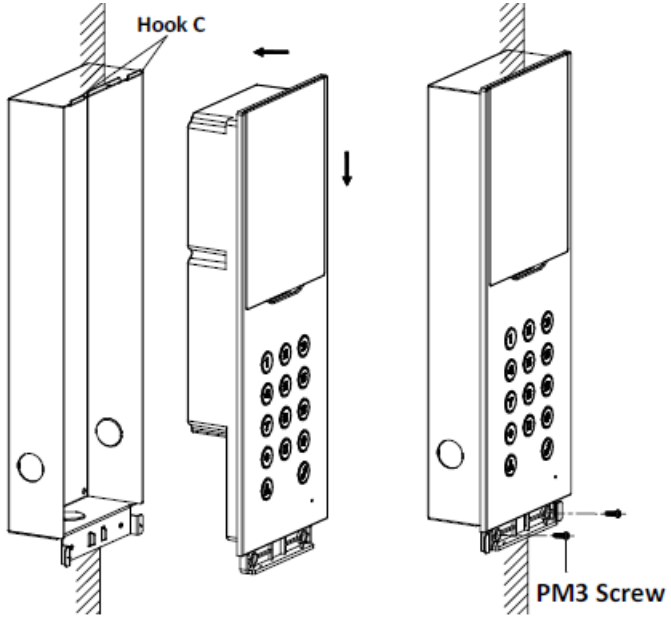


Step 2

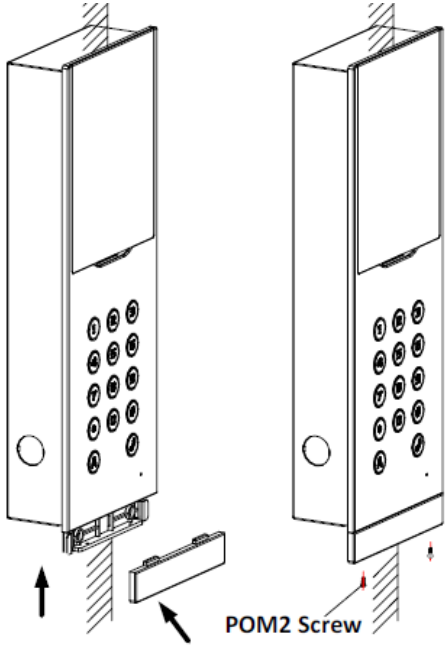
Door Station -- Installation

Door Station: DS-KD8002-VM

Hole Dimensions: 135.5 (Wide) * 408(Length) *55(Depth) mm

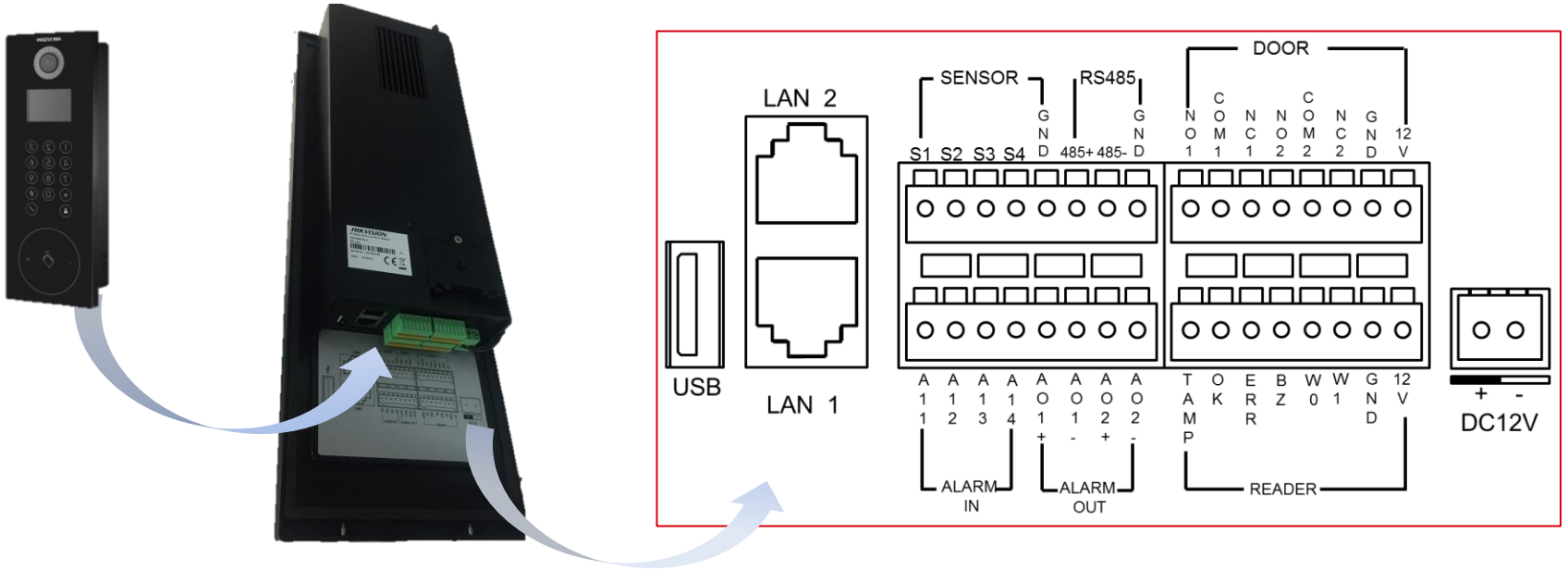


Step 3



Step 4

Door Station – Terminals and Interfaces



NOTE: LAN 2 and RS485 interfaces are reserved.

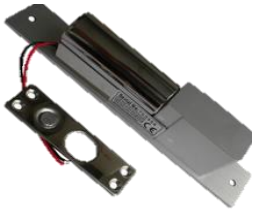
Door Station – Lock Wiring

Magnetic Lock

NC

Power on, lock;

Power off, unlock;

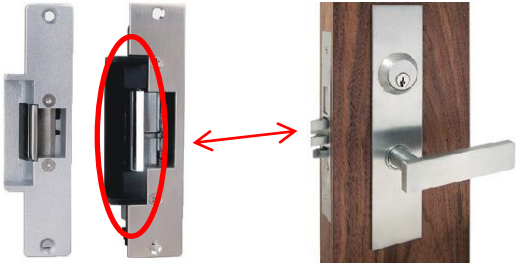


Electric Bolt

NC

Power on, lock;

Power off, unlock;



Electric Strike

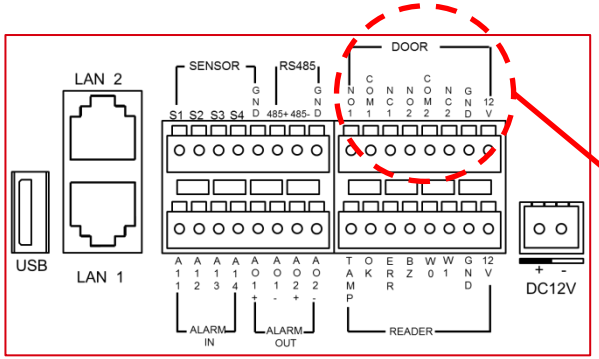
NO

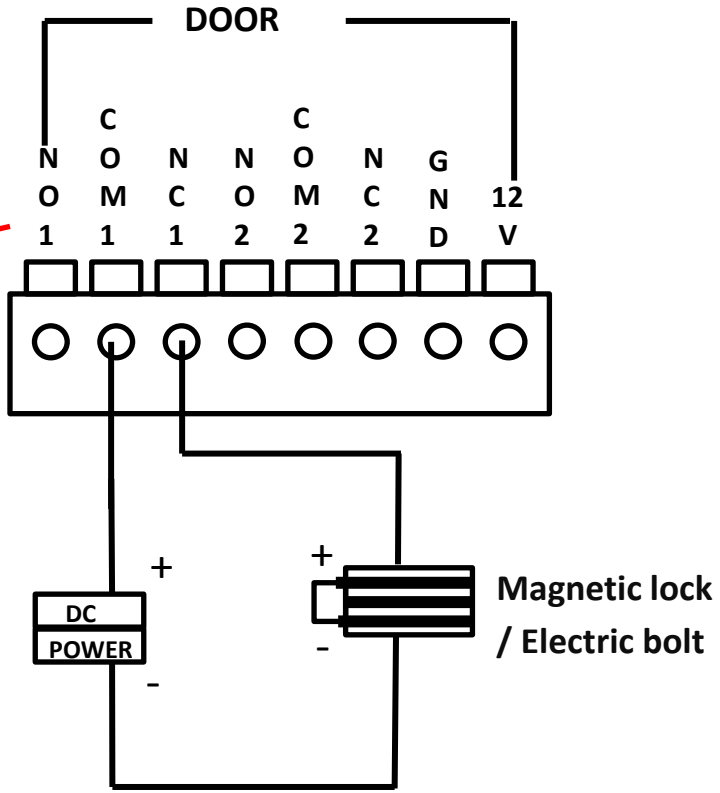
Power on, unlock;

Power off, lock;

Door Station – Magnetic Lock/ Electric Bolt Wiring

Connect magnetic lock/ electric bolt to door station, and power supply independently

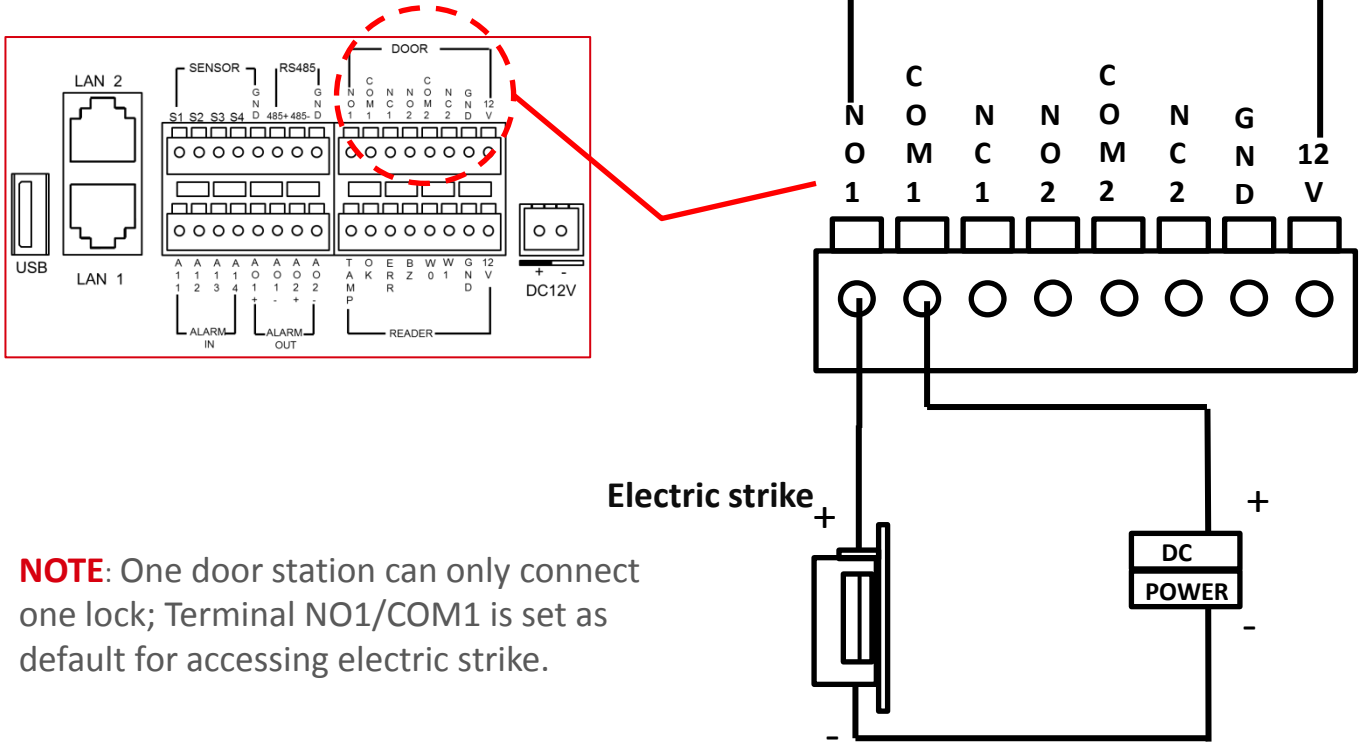




NOTE: One door station can only connect one lock; Terminal NC1/COM1 is set as default for accessing magnetic lock/electric bolt;

Door Station – Electric Strike Wiring

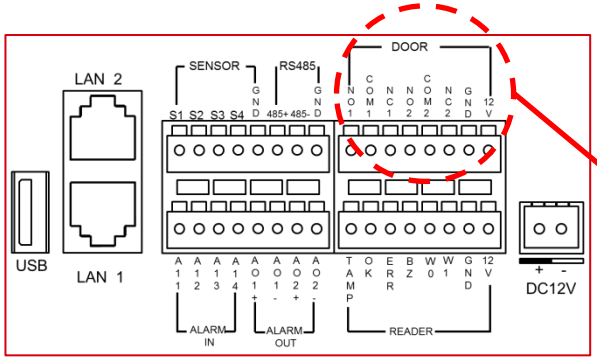
Connect electric strike to door station, and power supply independently

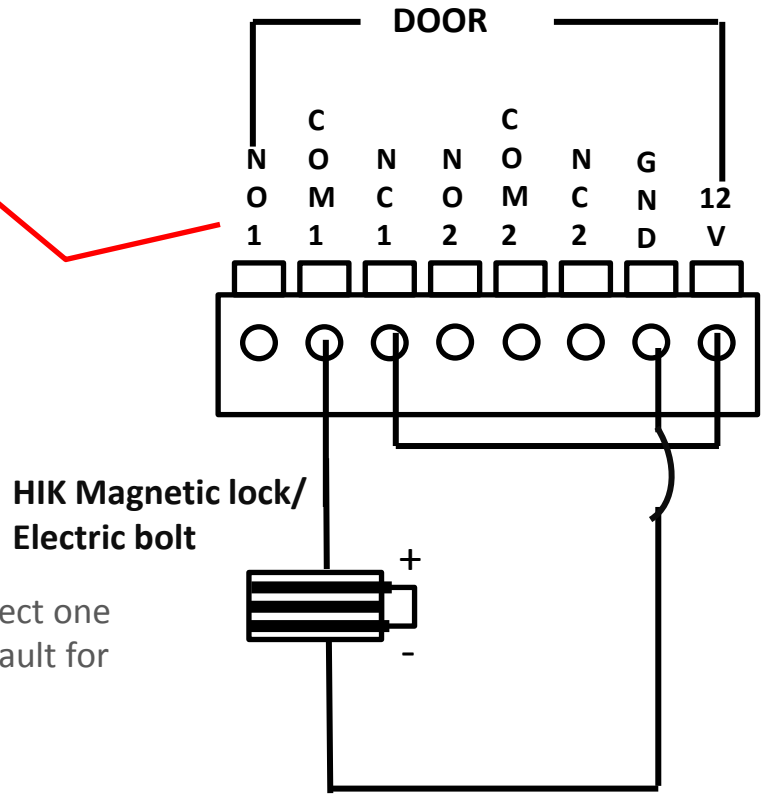


NOTE: One door station can only connect one lock; Terminal NO1/COM1 is set as default for accessing electric strike.

Door Station – Hik Magnetic Lock/ Electric Bolt Wiring

Connect magnetic lock/ electric bolt to door station, and power supply by door station

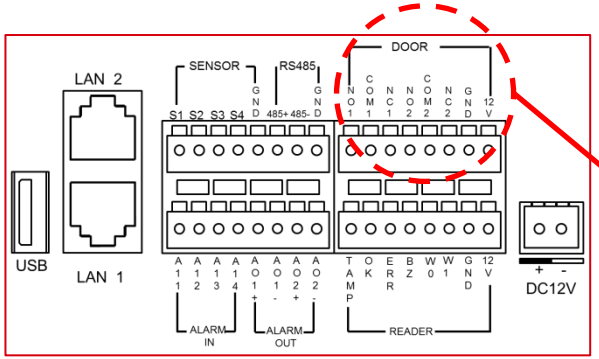


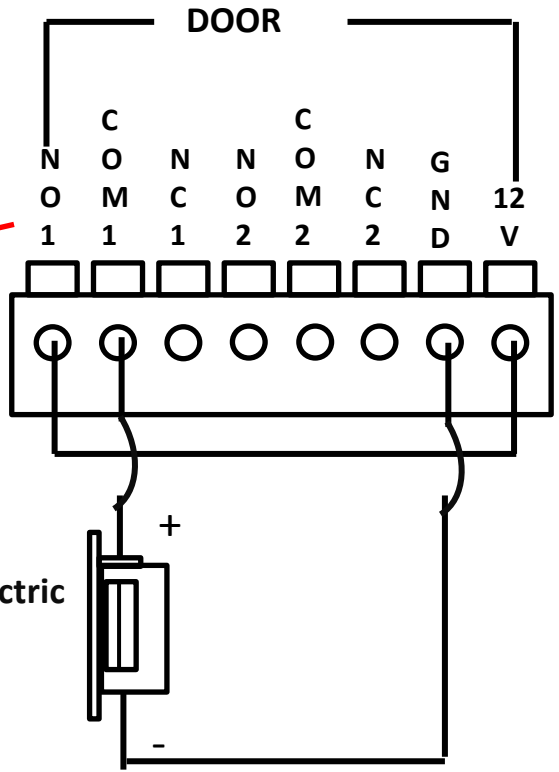


NOTE: One door station can only connect one lock; Terminal NC1/COM1 is set as default for accessing magnetic lock/electric bolt;

Door Station – Hik Electric Strike Wiring

Connect electric strike to door station, and power supply by door station

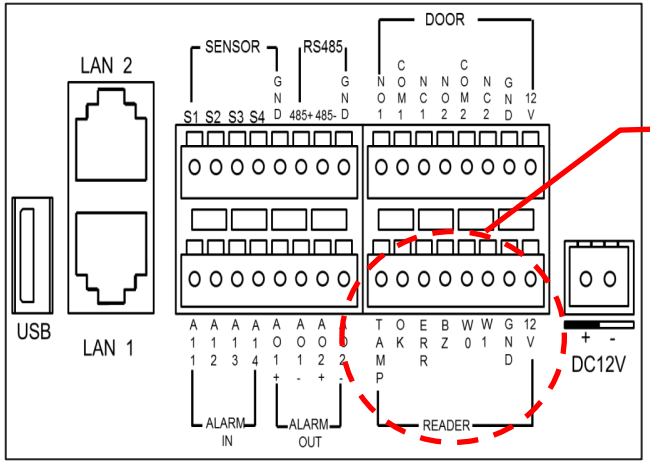


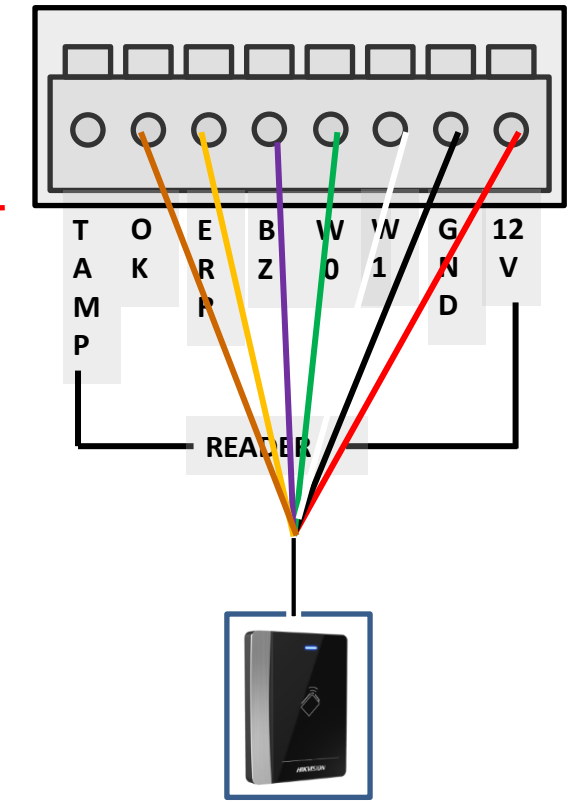


NOTE: One door station can only connect one lock; Terminal NO1/COM1 is set as default for accessing electric strike.

Door Station – Card Reader Wiring

Connect card reader to door station for going out, in this case, it supports swiping card to open the door.

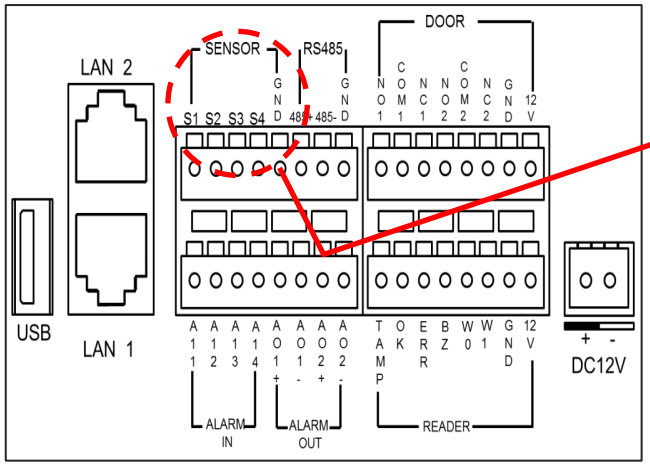


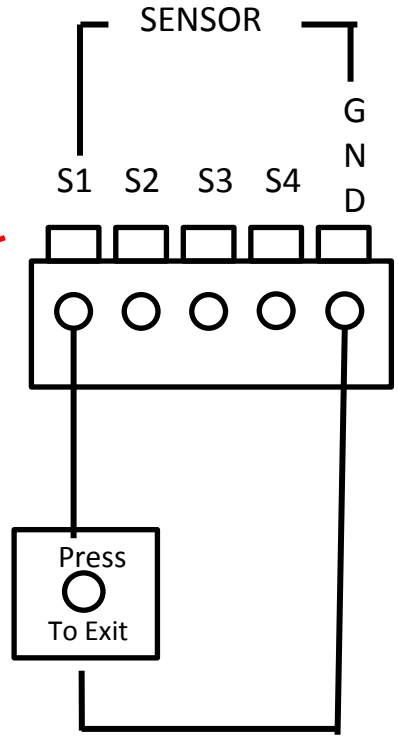


NOTE: Different colors for different ports

Door Station – Exit Button Wiring

Connect exit button to door station for going out, in this case, it supports press button to open the door.

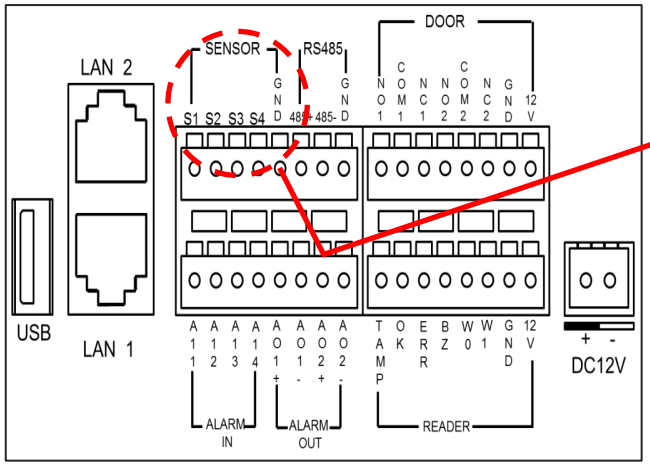


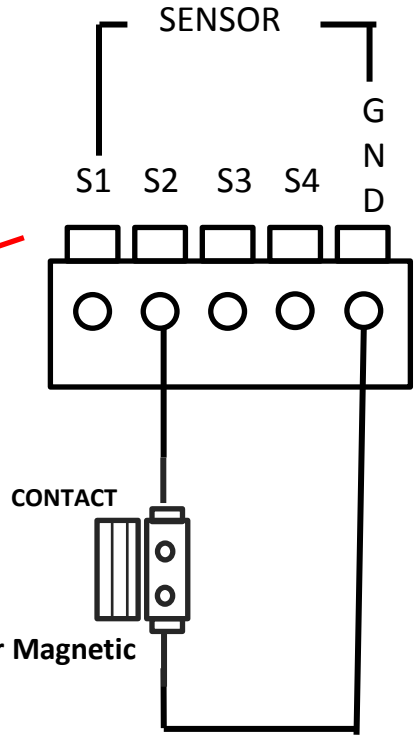


NOTE: Terminal S1 is set as default for connecting door switch button, it is required setting the output of terminal S1 to be door status with video intercom configuring tool software.

Door Station – Door Magnetic Wiring

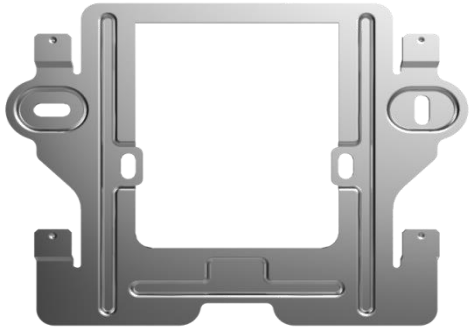
Connect door magnetic to door station for feedback door status





NOTE: Terminal S2 is set as default for connecting magnetic door.

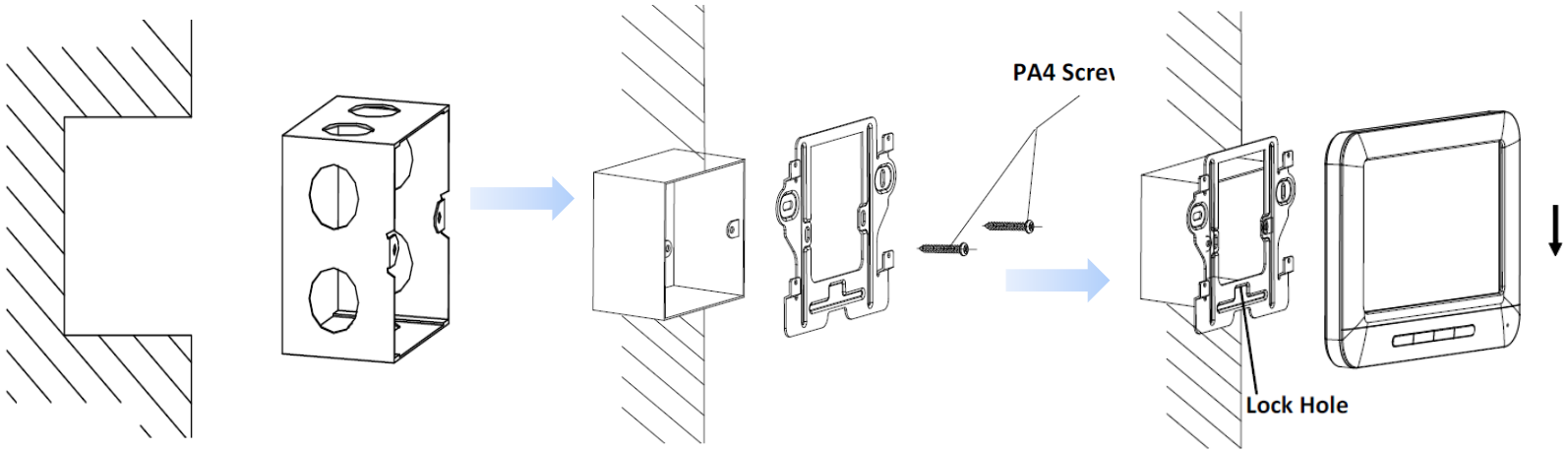
Indoor Station -- Installation



Installation Plate

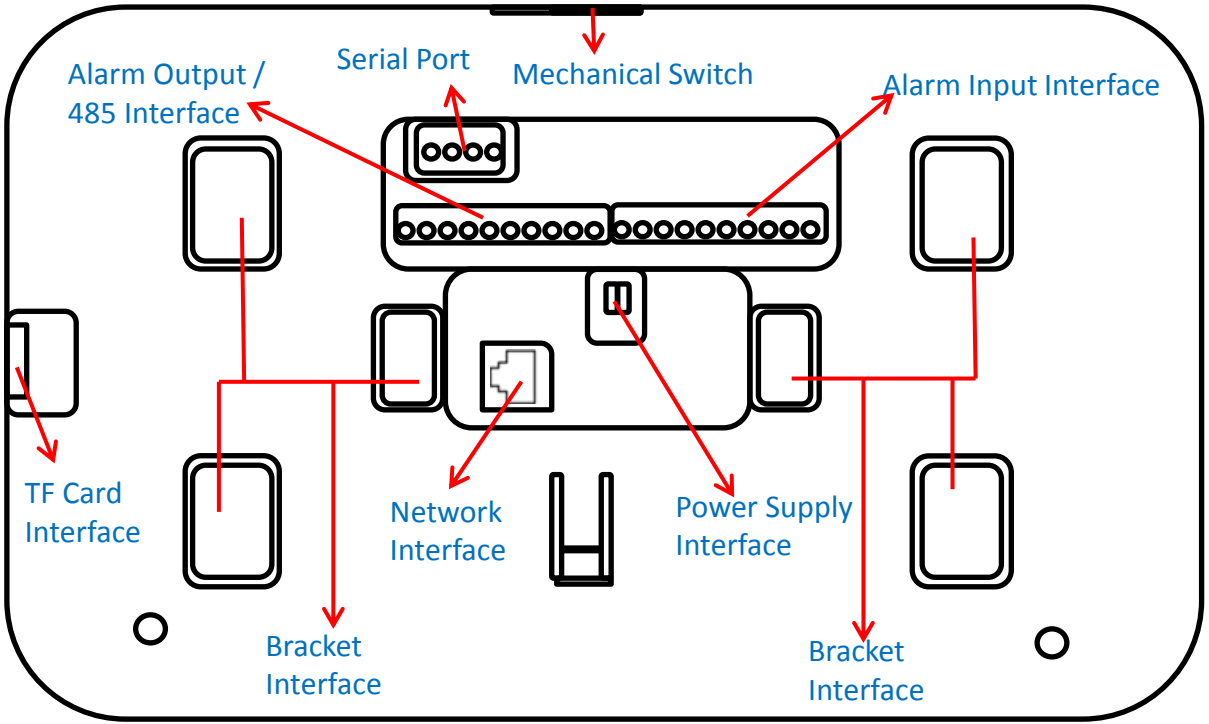
Indoor Station -- Installation

Indoor Station
Wall-mounting with gang box

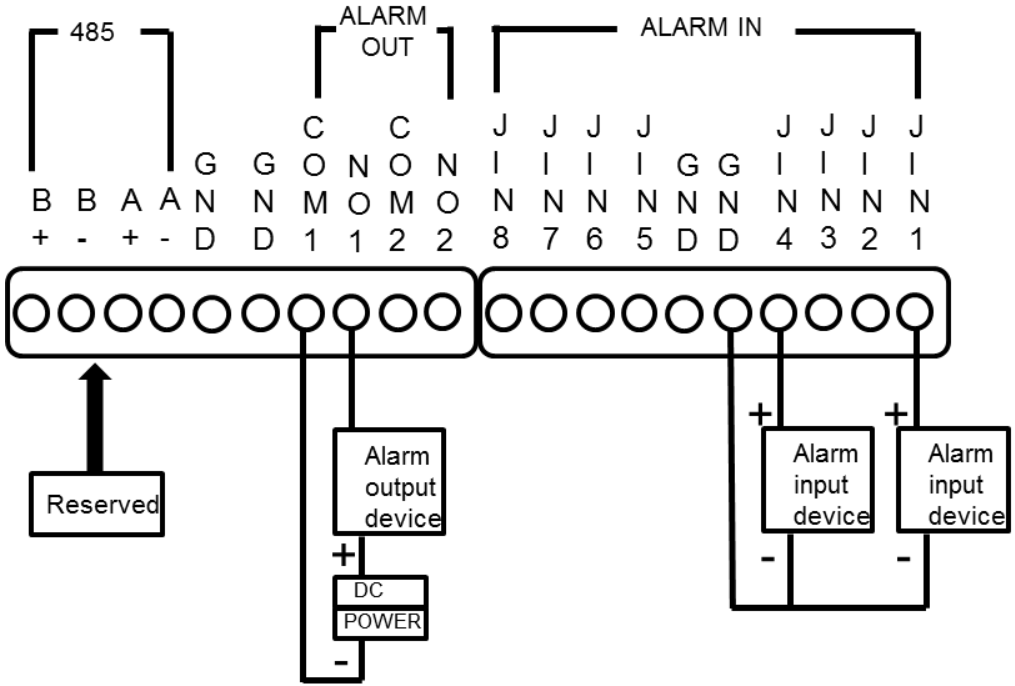


NOTE: chisel a hole in the wall for inserting the gang box, the size of the hole should be 76 (Width) * 76(Length) * 50 (Depth)

Indoor Station – Terminals and Interfaces



Door Station – Detector Wiring



Villa Door Station -- Installation

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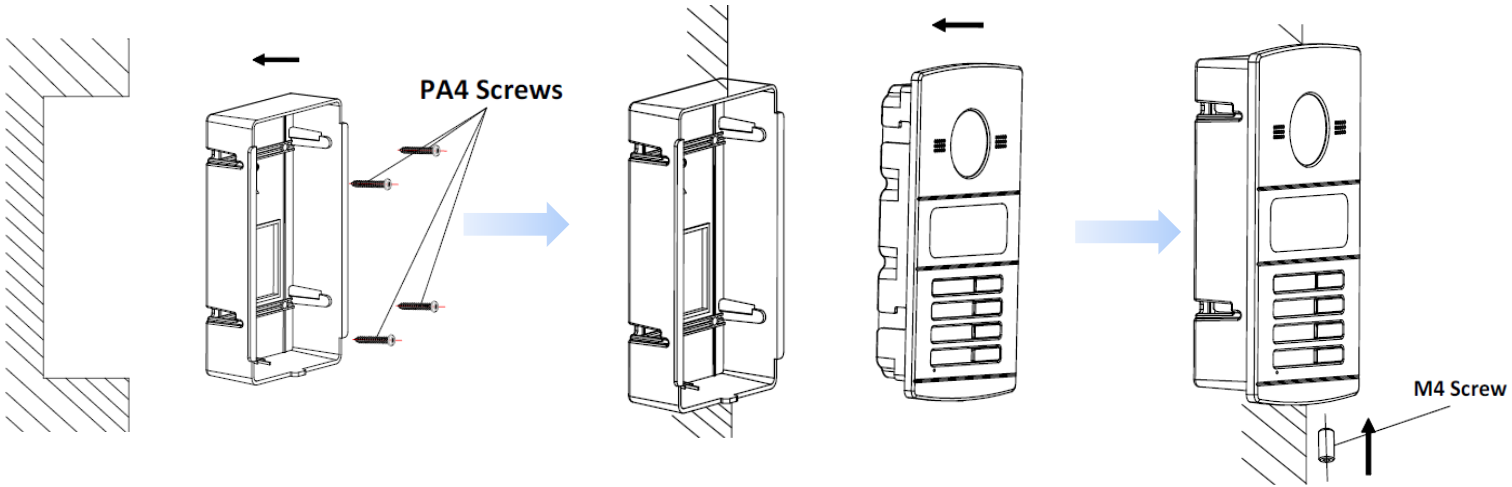
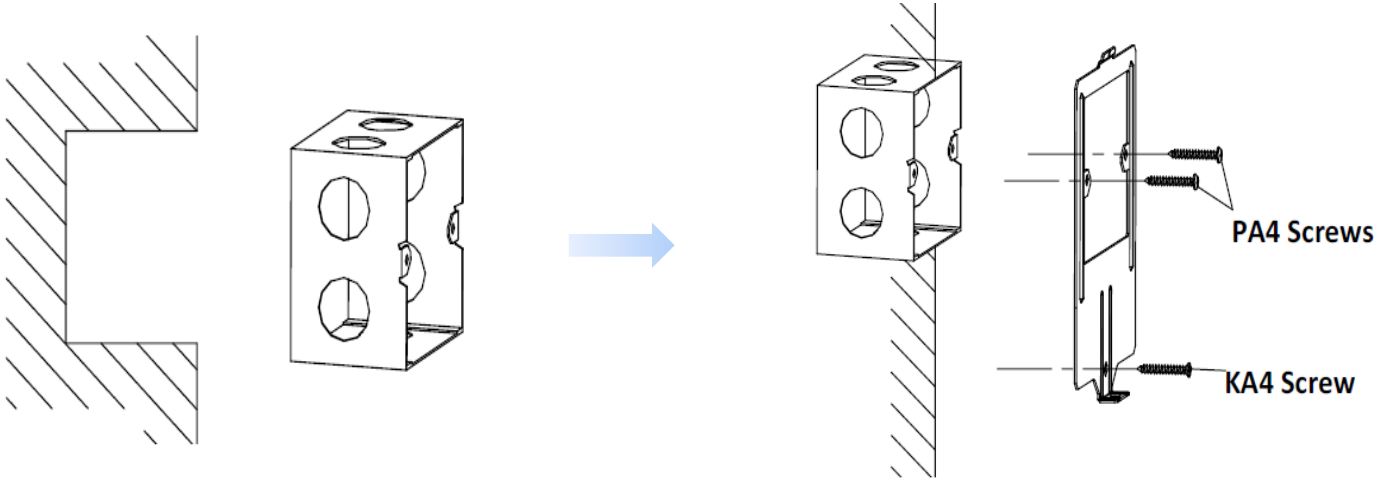
Wall-mounting with Gang Box of DS-KV8X02-IM



NOTE: the gang box in the packing box, chisel a hole in the wall for inserting the gang box, the sixe of the hole should be 90(Width) * 170 (Length) * 38 (Depth)

Villa Door Station -- Installation

Wall-mounting with Gang Box of DS-KV8102-XP

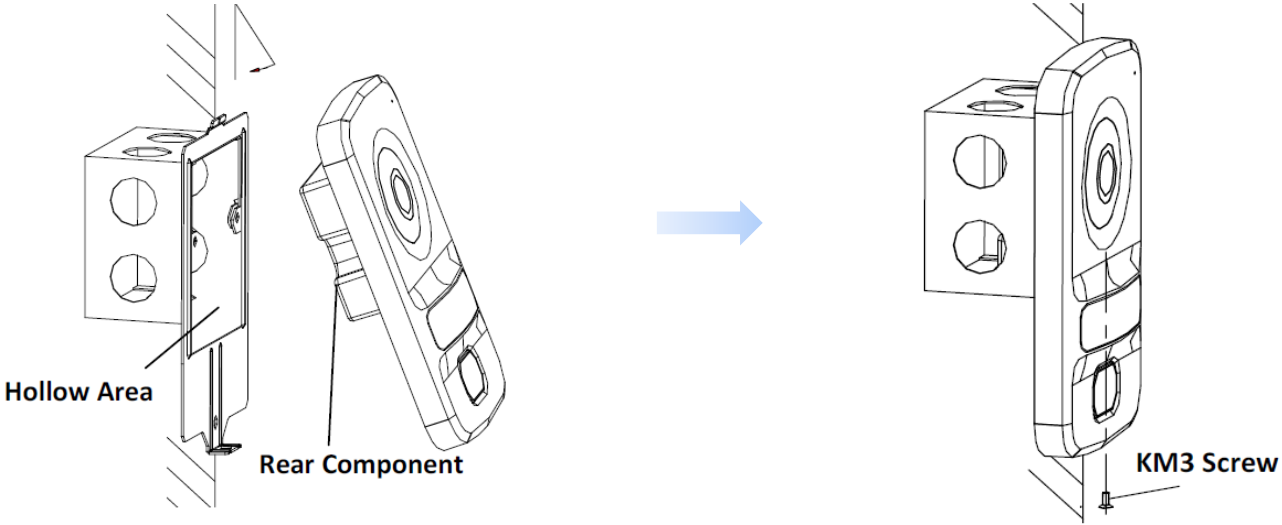


NOTE: chisel a hole in the wall for inserting the gang box, the sixe of the hole should be 76(Width) * 76 (Length) * 50 (Depth)

Villa Door Station -- Installation

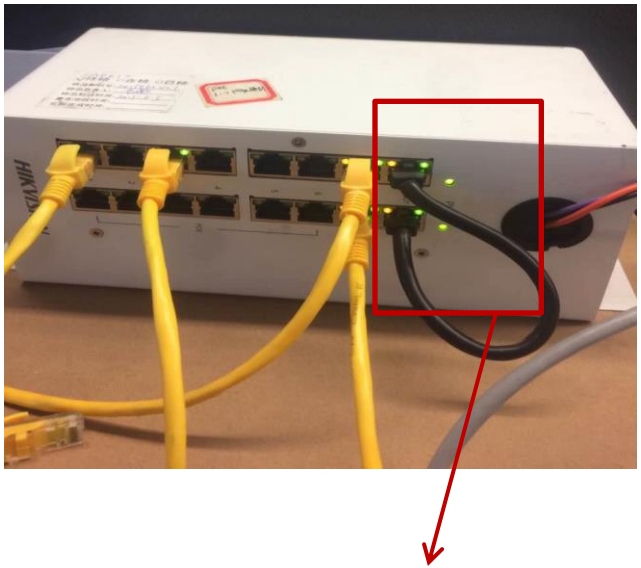
HIKVISION

Wall-mounting with Gang Box of DS-KV8102-XP



Video/Audio Distributor – installation & wiring

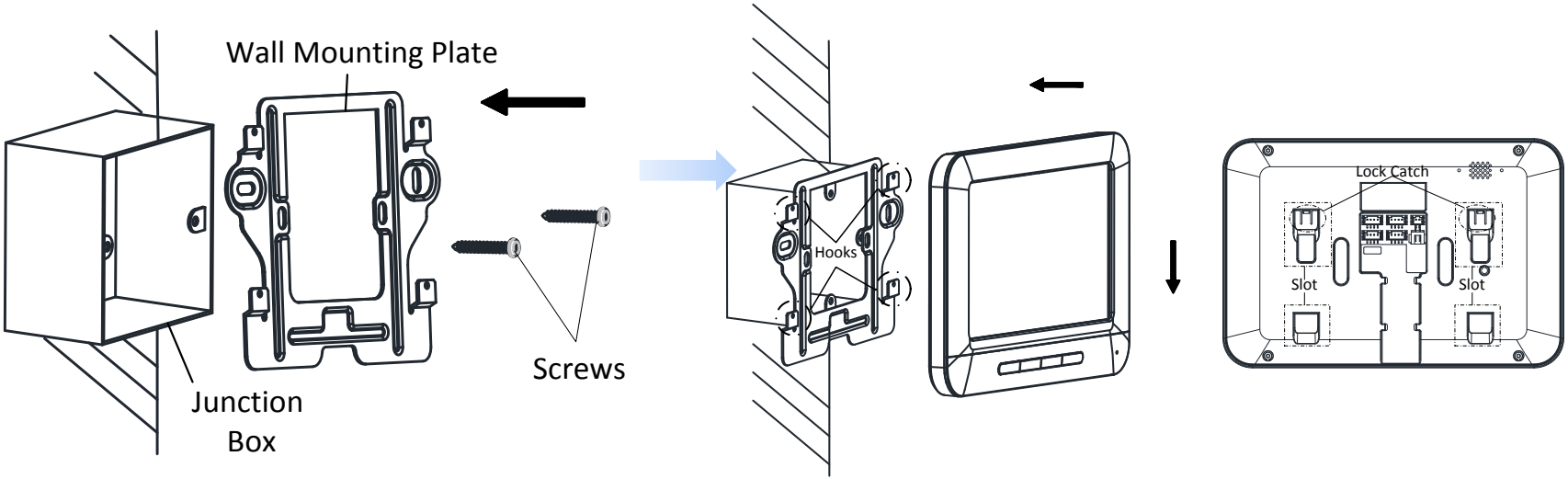
Fix it on the wall with screws



Conenct rightmost 2 LAN ports directly via network cable

HIKVISION

Indoor station: Wall-mounting with junction Box

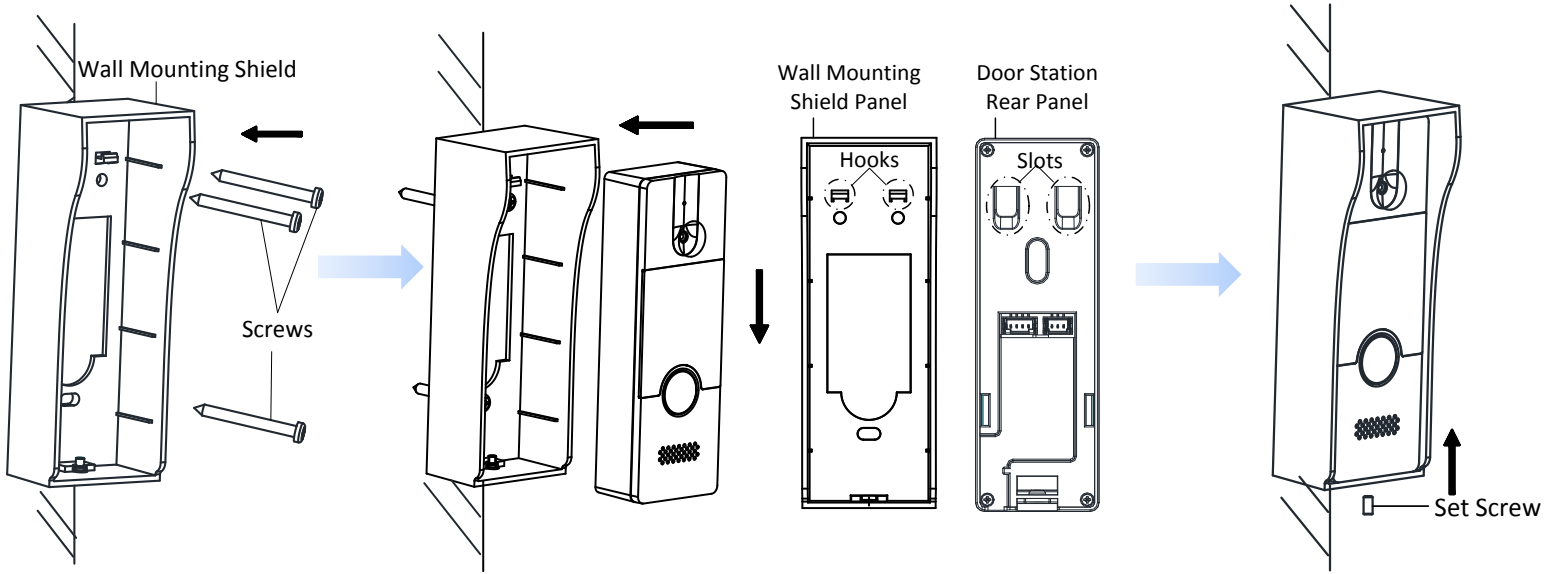


NOTE: the junction box should be 75(Width) * 765(Length) * 50 (Depth);

Installed without junction box, fix the wall mounting plate to the wall with 2 expansion screws.

HIKVISION

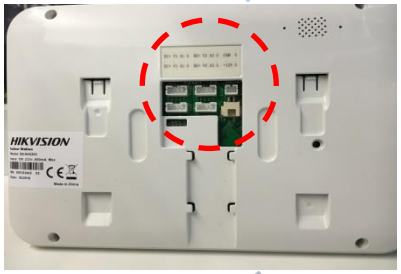
Door station: Wall-mounting Shield

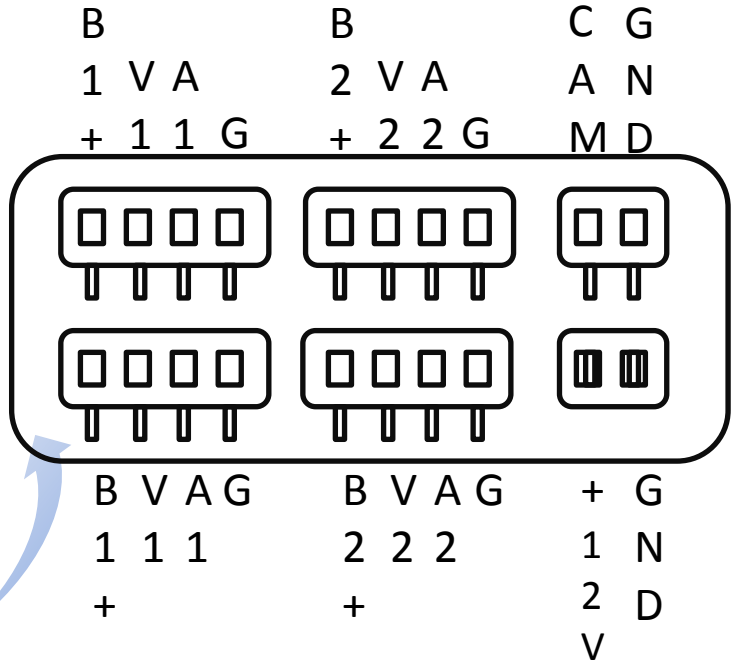


NOTE: wall-mounting shield is included in the bom package.

New Products -- Interface

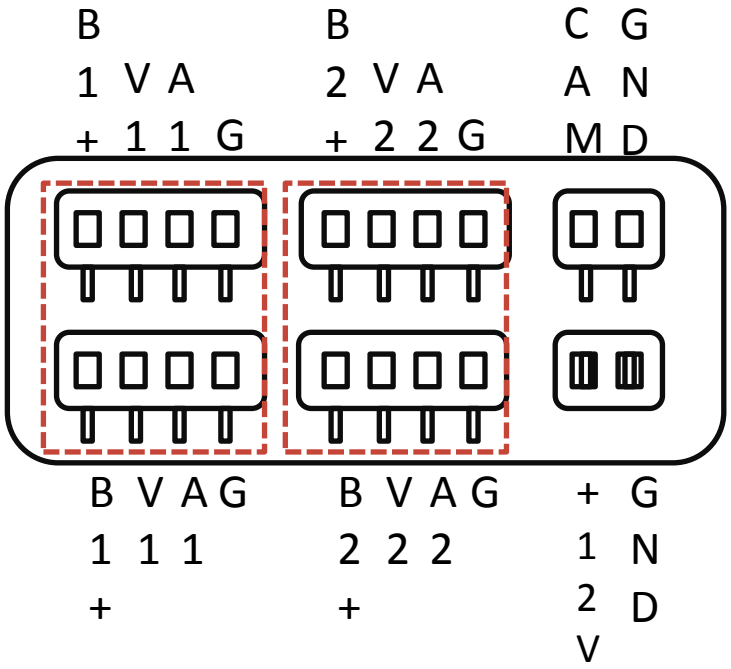
Indoor station interface





New Products -- Interface

Indoor station interface



Description

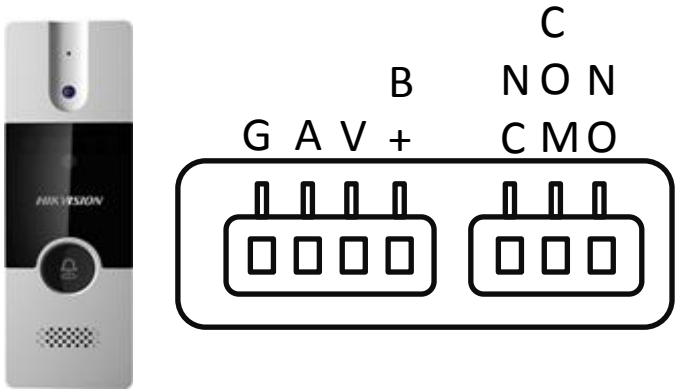
- B1+/B2+: Power Supply for door station
- V1+/V2+: Video Input
- A1+/A2+: Audio Input
- G: Grounding Singal
- CAM: Analog Camera Access

NOTE: when connecting analog camera to indoor station, block to BNC cable need to be added into the BOM package.

15 cm Block to BNC Cable x1

New Products -- Interface

Door station interface



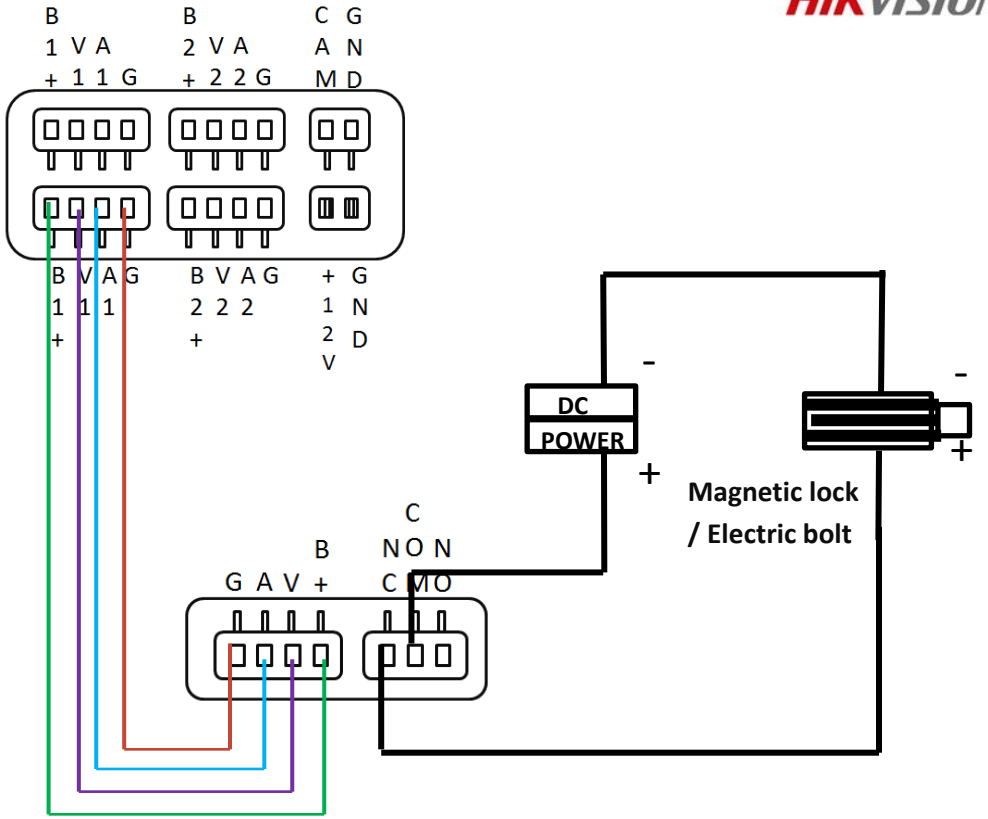
Description

- B+: Power Supply from door station
- V: Video Output
- A: Audio Input / Output
- G/COM: Grounding Singal
- NC: Door lock relay output(elextric bolt/Magnetic lok)
- NO: Door lock relay output(elextric strike)

New Products -- Wiring

1 door station and 1 indoor station

connect magnetic lock/electric bolt and power supply for lock independently

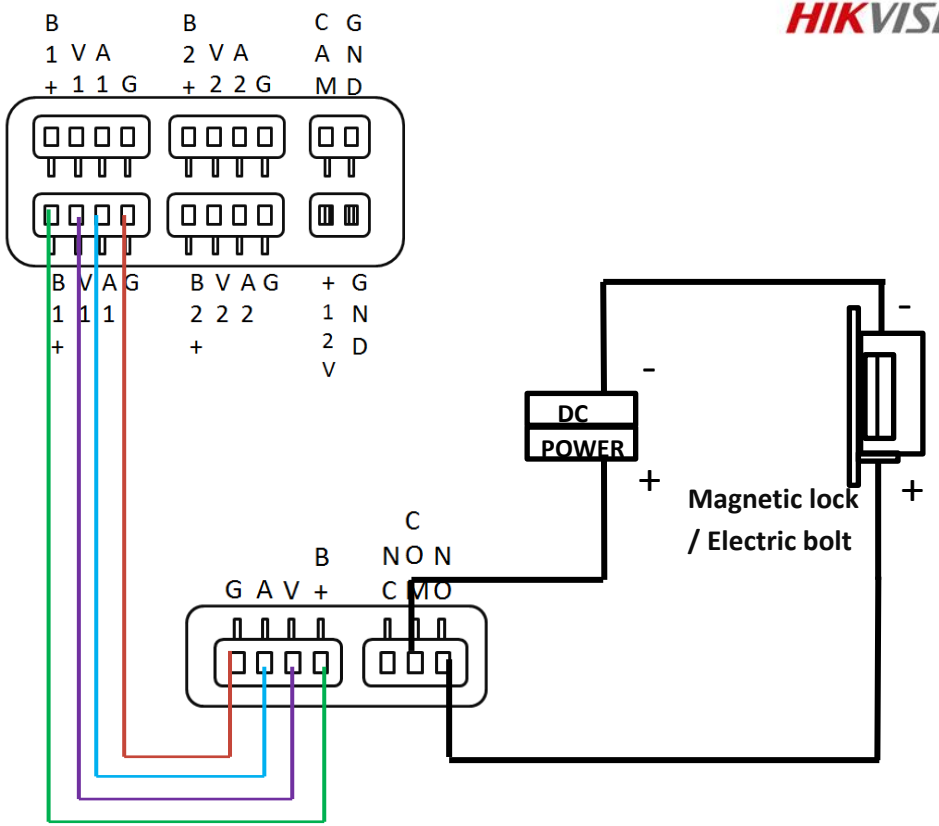


NOTE: 5cm three-core cable is included in BOM package,

New Products -- Wiring

1 door station and 1 indoor station

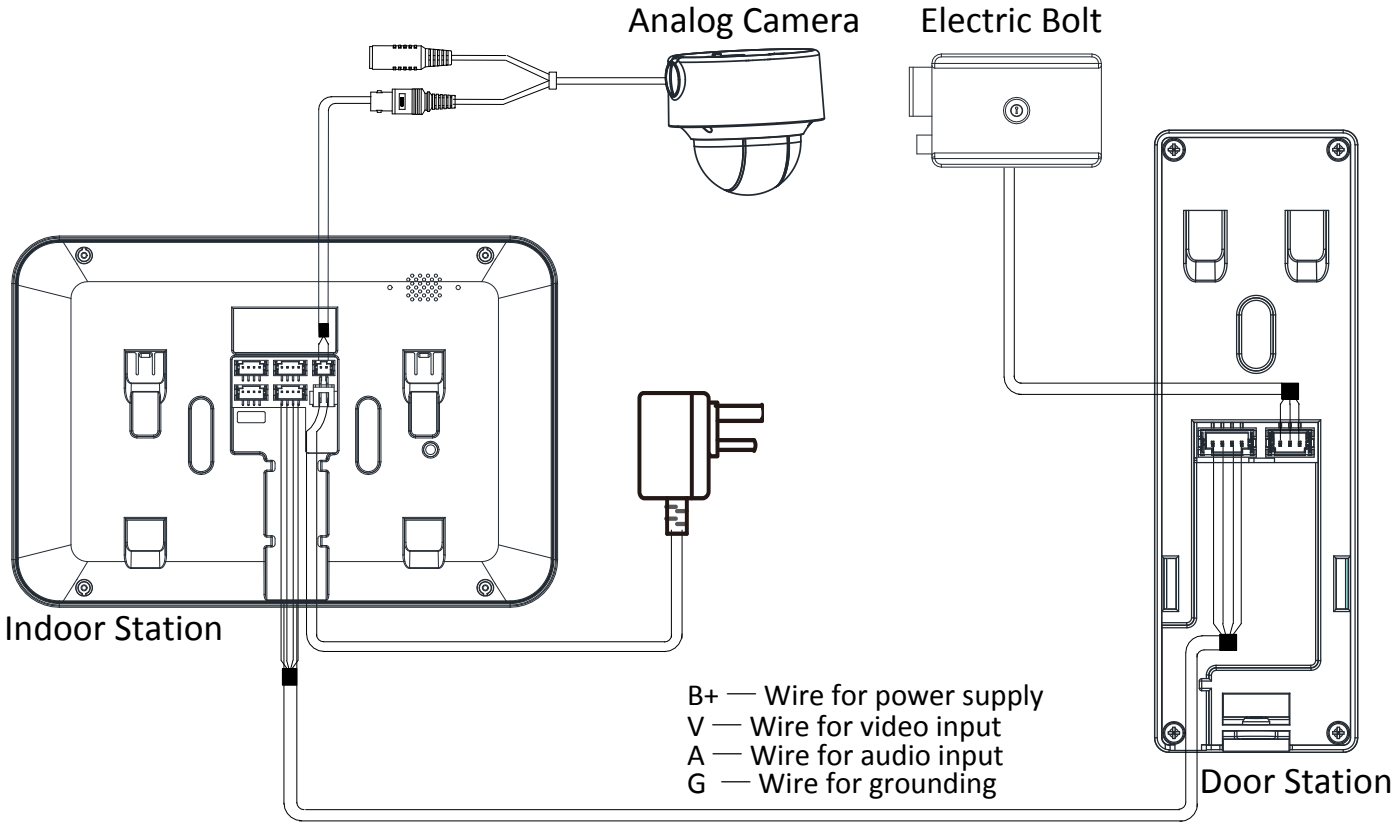
Connect electric strike and power supply for lock independently



NOTE: 5cm three-core cable is included in BOM package,

New Products -- Wiring

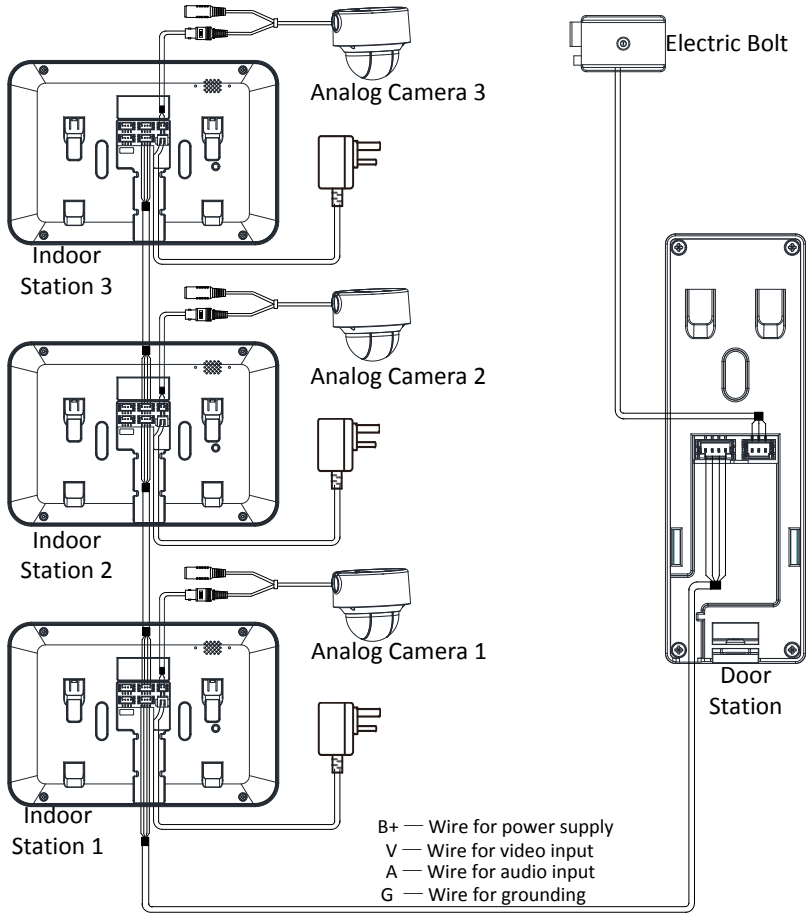
1 door station and 1 indoor station



New Products -- Wiring

1 door station and 3 indoor station

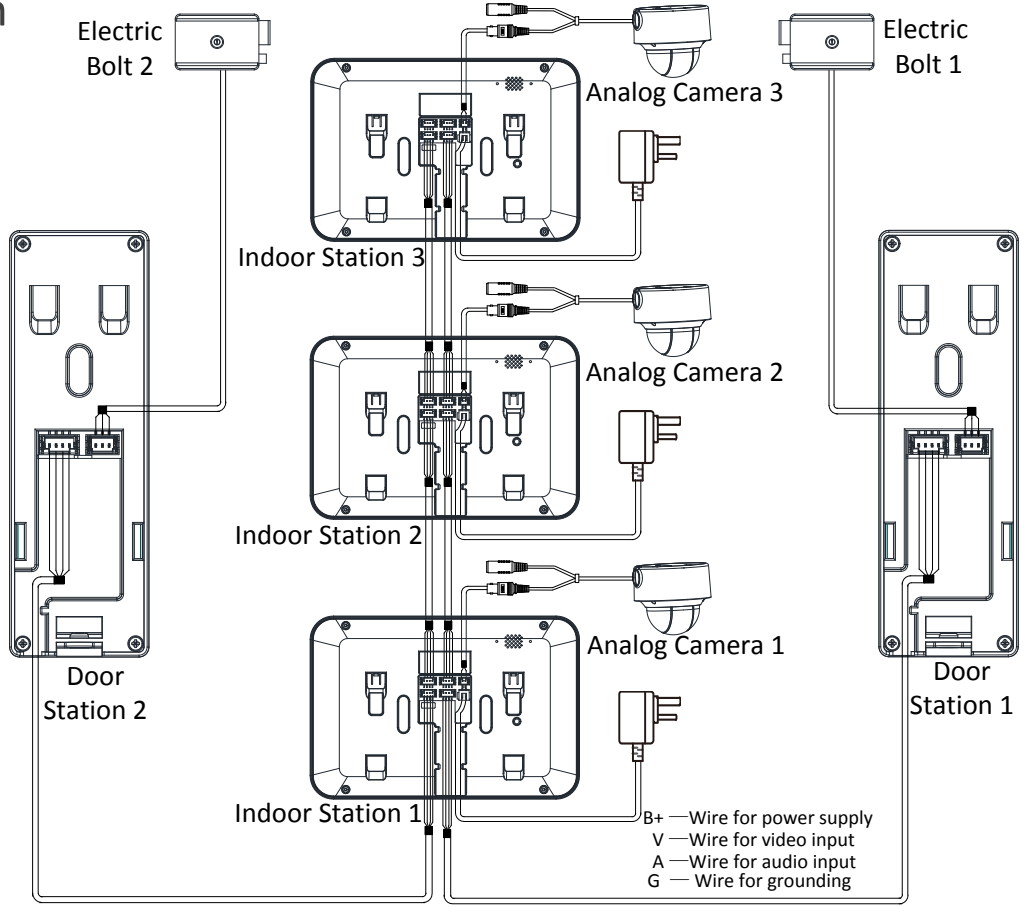
When a house and an apartment with more than one indoor station, 2 or 3 indoor stations, wiring just like the picture shows:



New Products -- Wiring

2 door station and 3 indoor station

When a house with more than one indoor station, 2 or 3 indoor stations, and 2 entrances, wiring just like the picture shows:



New Products -- Wiring

BAD EXAMPLE

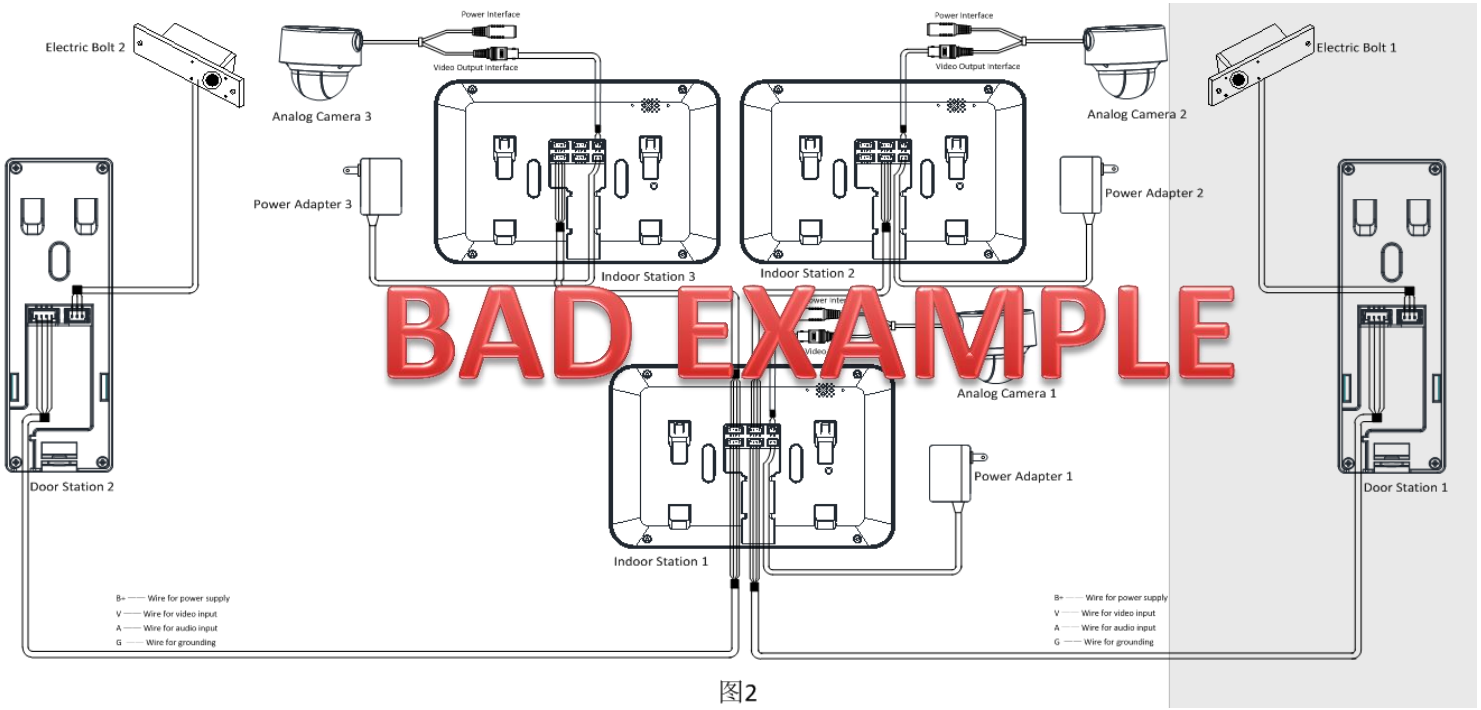


图2

CONTENTS

- Application
- Products
- Installation
- OPERATION

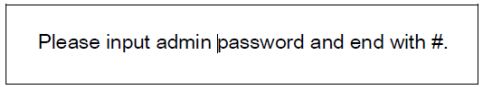
OPERATION

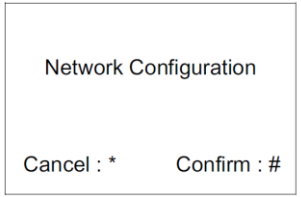
How to realize video call

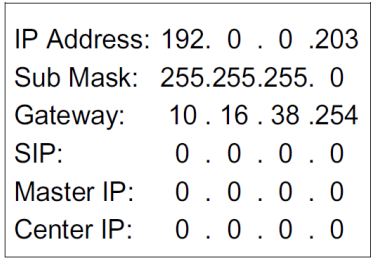
FIRST: Press * and # for Several seconds simultaneously until see 'Please input admin password and end with #', please input 888999 by default

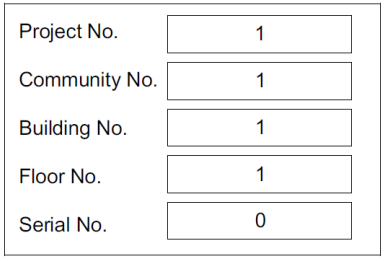
SECOND: enter Network Configuration interface, set network parameters, please note that SIP IP and master IP is the master station's IP, center IP is platform software 's IP

THIRD: enter Local Settings interface, set parameters, please note than you need set 0 as serial No. , if your device is main door station; you need set 1-8 as serial No., if your device is sub-door station.









OPERATION

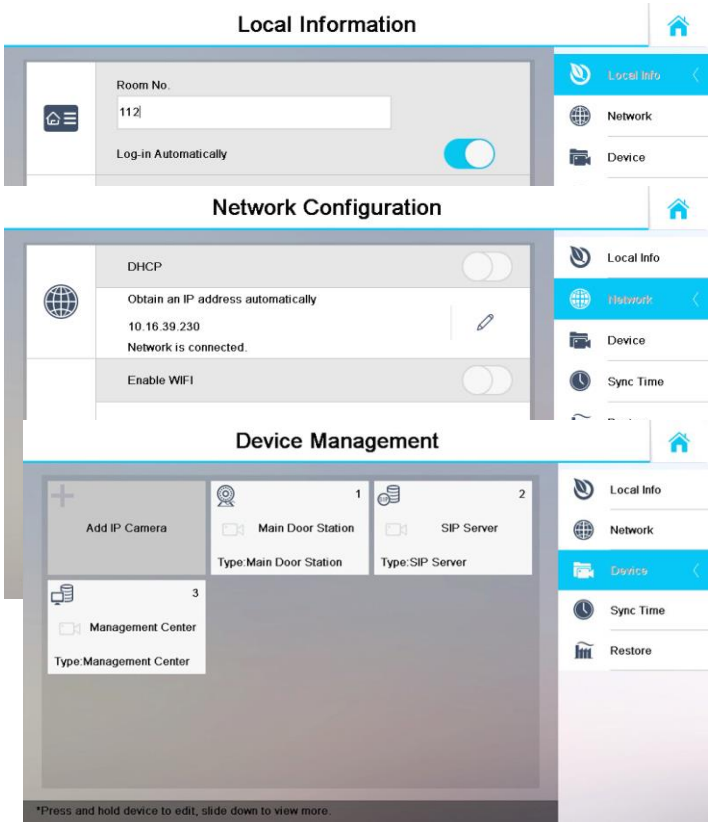
How to realize video call

FOURTH: click ‘Settings’ --- ‘Configuration’, Input admin password (888999 by default); set ‘Room No.’ and enable ‘Auto-Login’ (Local Info interface); set IP address for indoor station(network interface);

FIFTH: add door station to indoor station, click ‘Main Door Station’ and select D Series OR V Series and input door station’s IP;

NOTE: D Series means door station, v Series means villa door station;

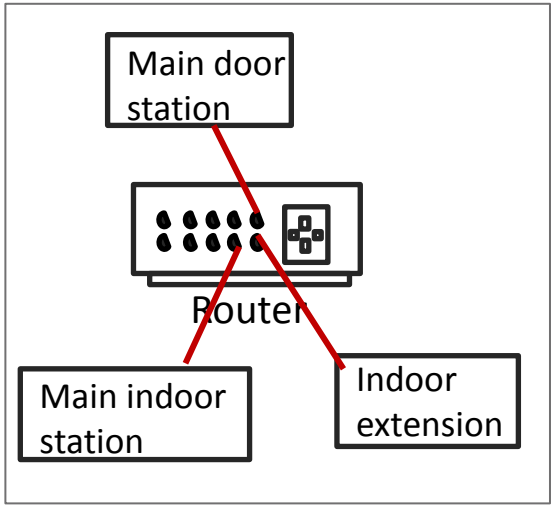
Input the room No. to call indoor station

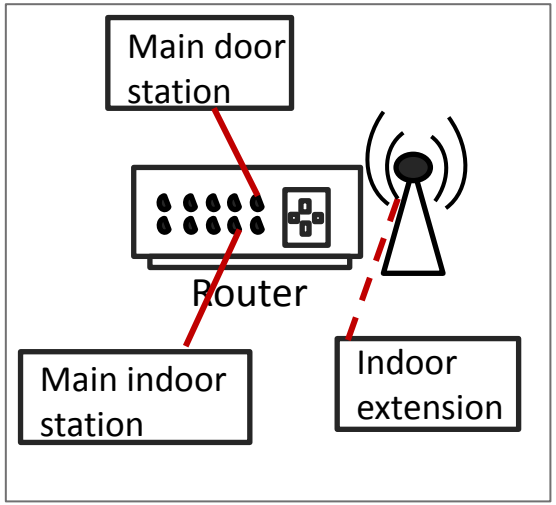


HIKVISION

Indoor Station – Extension

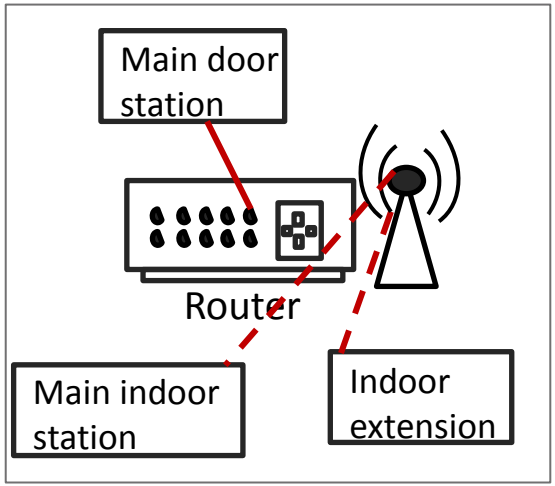
Indoor Extension and door station at the same LAN (Local Area Network)

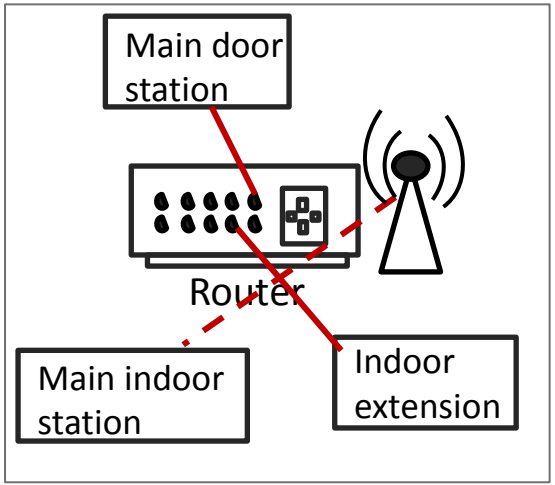




Indoor Station – Extension

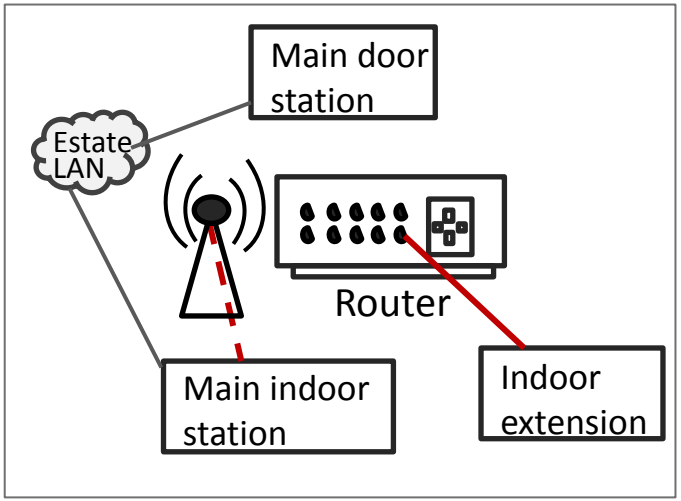
Indoor Extension and door station at the same LAN (Local Area Network)

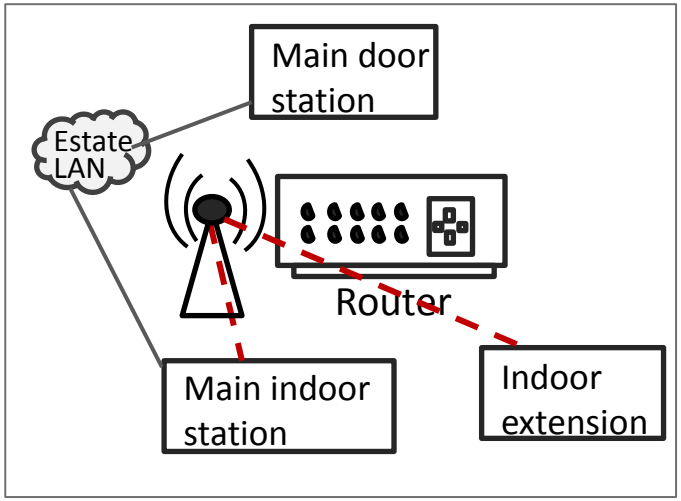




Indoor Station – Extension

Indoor Extension and door station at the different LAN (Local Area Network)



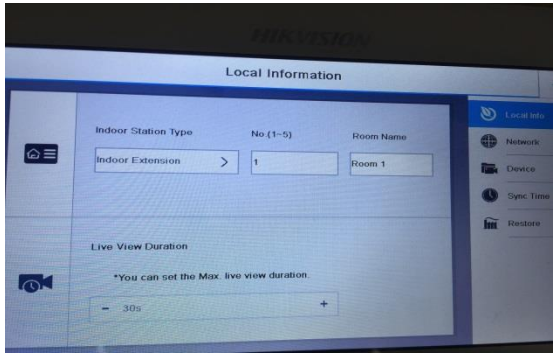


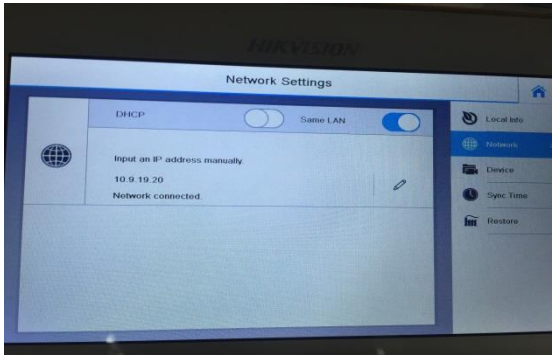
Indoor Station – Extension

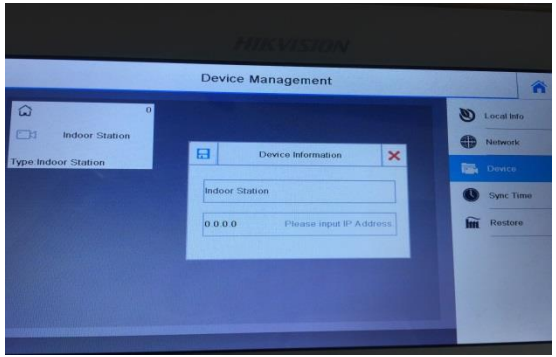
Indoor Extension:

- set Indoor Extension
- set Room name and No.
- set IP address and configure Same LAN
- Add Indoor Station IP Address to extension

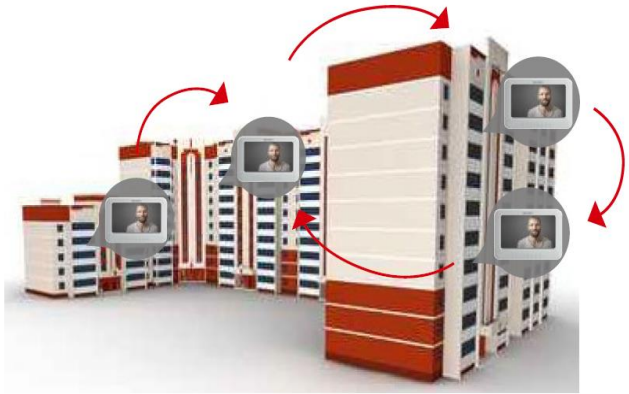
NOTE: Same LAN should be kept consistence in indoor station and indoor extension







Indoor Station – Extension



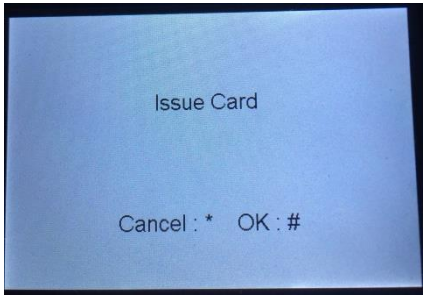
Indoor Extension:

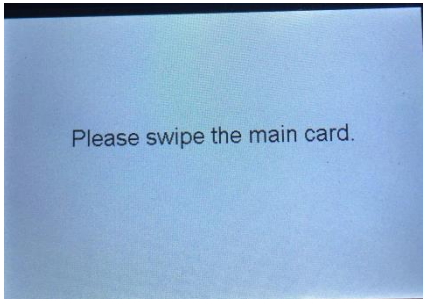
- Same LAN should be kept consistence in indoor station and indoor extension
- Same LAN: indoor station and indoor extension receive call from other device at the same time
  --> both stations get stream from other device directly
  --> Signaling of both station is transmitted by indoor station
- Different LAN: indoor station and indoor extension receive call from other device at the same time
  --> indoor station gets stream from other device directly
  --> indoor extension gets stream from other device via router
  --> Signaling of both station is transmitted by indoor station

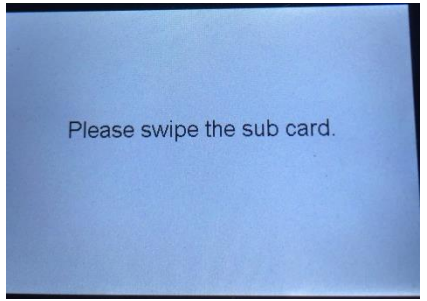
Door Station – Issue Card

Enter issue card interface

- Swipe main card
- Swipe sub card







OPERATION

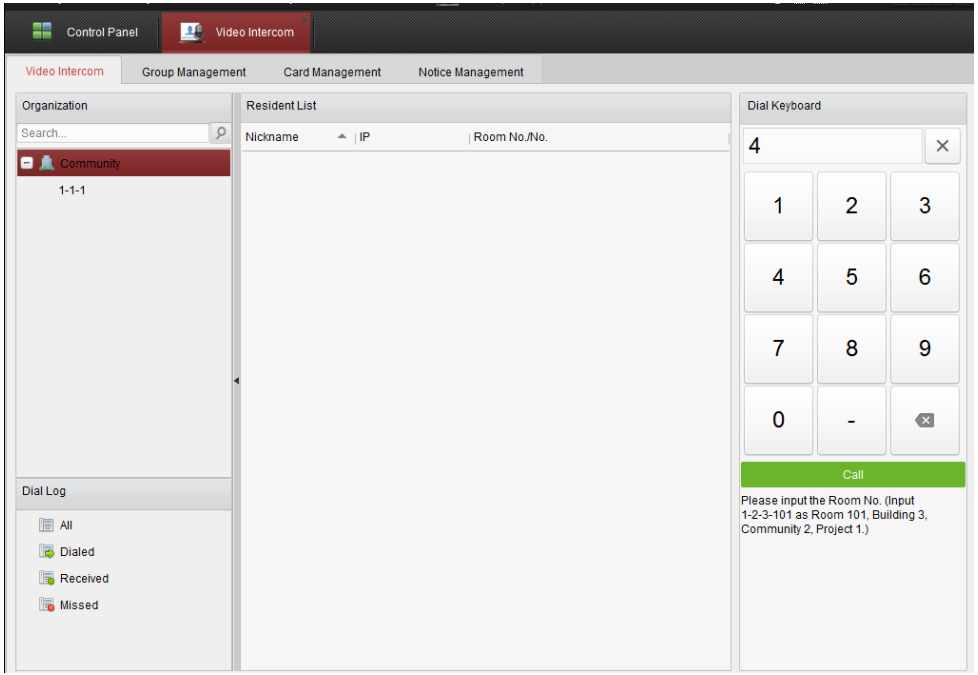
iVMS-4200 Client

Encoding Device/Door Station: 16

Indoor Station/Master Station: 512

FUNCTION:

- Call Indoor Station
- Receive Indoor/Door/Outer Door Station's Call
- Manage Community
- Issuing Card
- Notice Management
- Alarm Information
- Remote Configuration



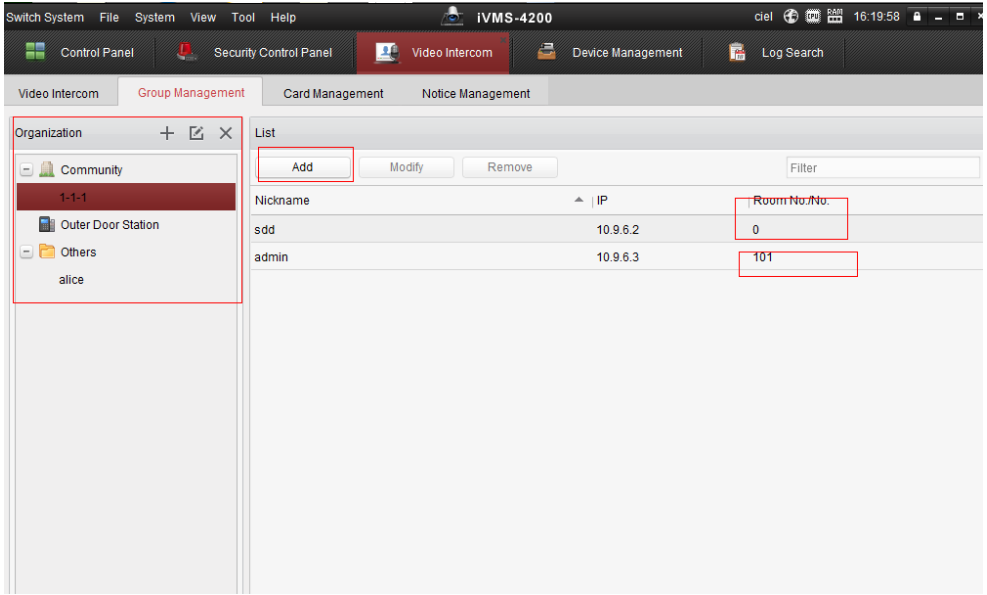
OPERATION

iVMS-4200 Client

Setting Community Structure & Others:

Others is used for Security personnel/Cleaning Workers and others

Adding device to Community, input the Room No.(Indoor station) or Serial No. (Door Station);



OPERATION

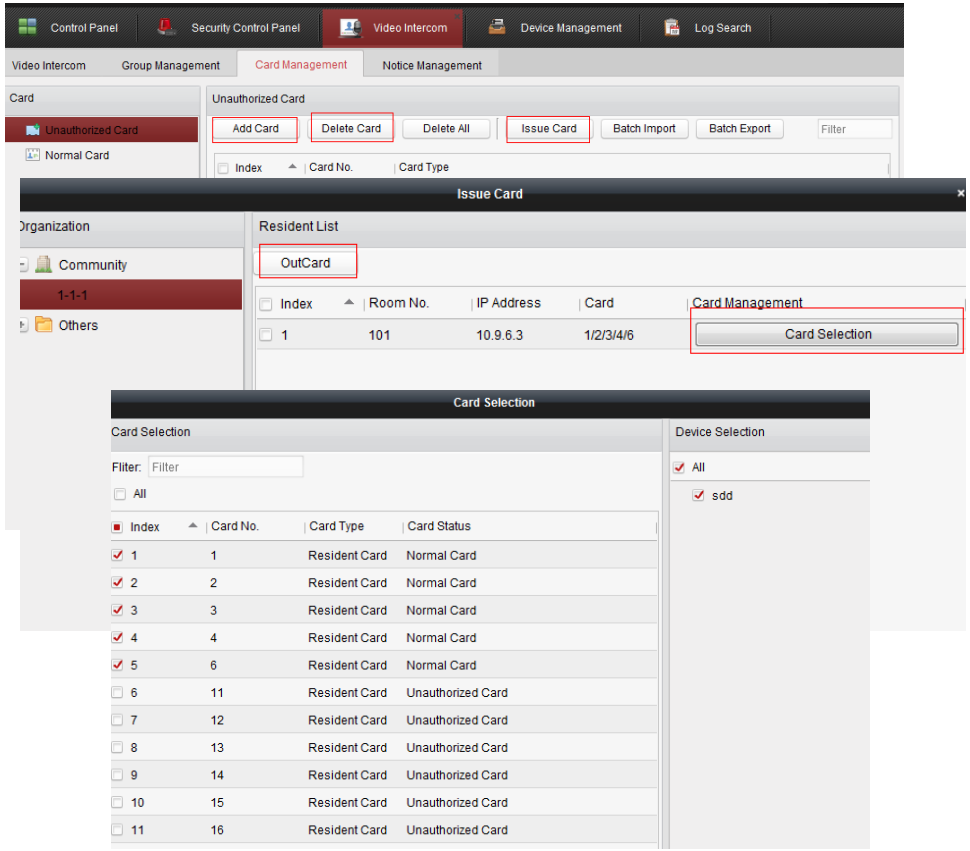
iVMS-4200 Client

Add Card: In Batch & Single Card & Card Reader.

Delete Card: Delete empty card, not normal card(which have issued to residents and others)

Issue Card: Select Indoor Station and Card and Door station.

OutCard: Return Residents Card and Other Card, select door station and cancel cards



OPERATION

iVMS-4200 Client

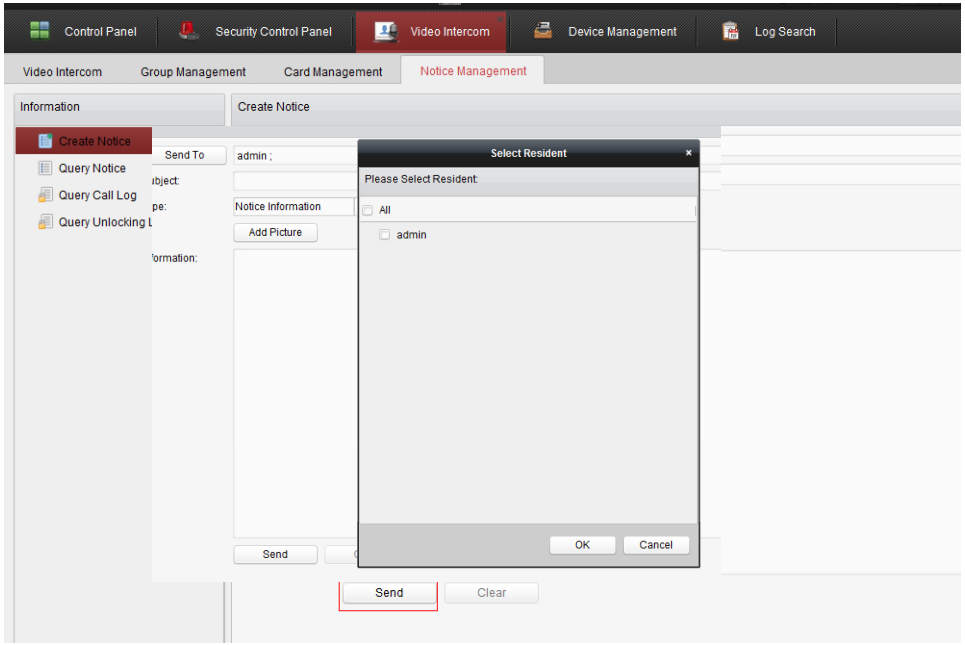
Notice Management：

Send message to indoor station, including advertising information/property information/notice information/alarm information

Subject: no more than 63 letters (including space);

Information: no more than 1023 letters(including space);

Picture: less than 512KB and jpg. Format, and no more than 6 pictures can be added to the same notice information;



OPERATION

iVMS-4200 Client

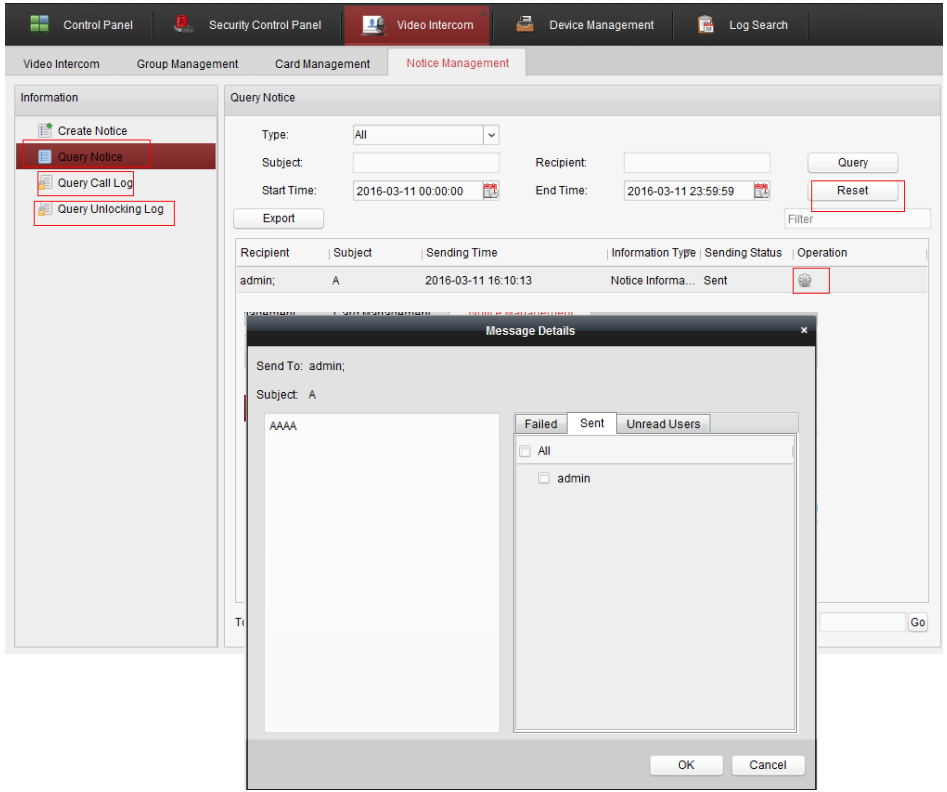
Query Notice:

Reset: reset start time and end time;

Click to check the notice details;

Query Call Log:

Query Unlocking Log:

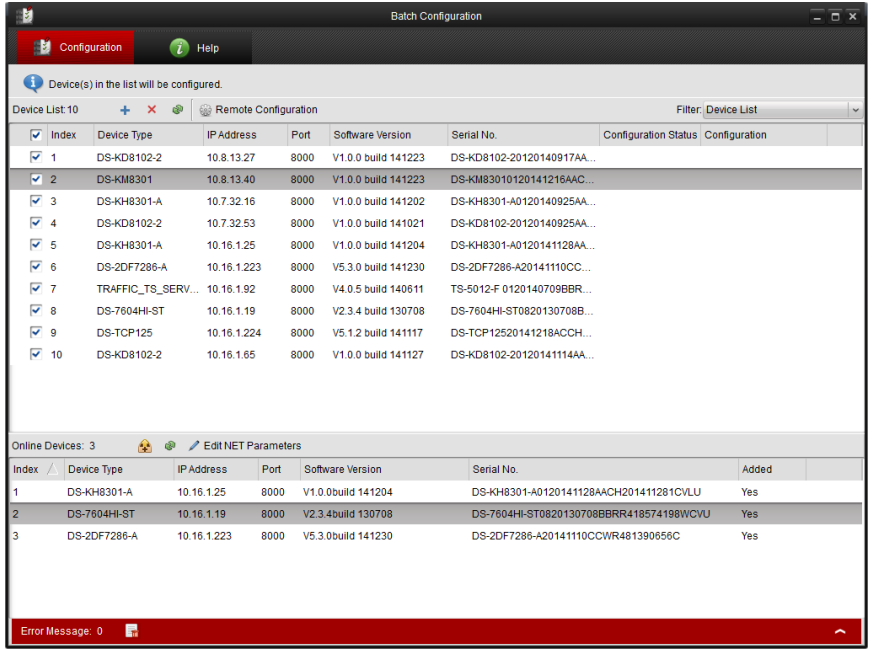


OPERATION

Batch Configuration Tool

FUNCTION:

- Activate Device & Reset Password
- Edit NET Parameters
- Remote Configuration



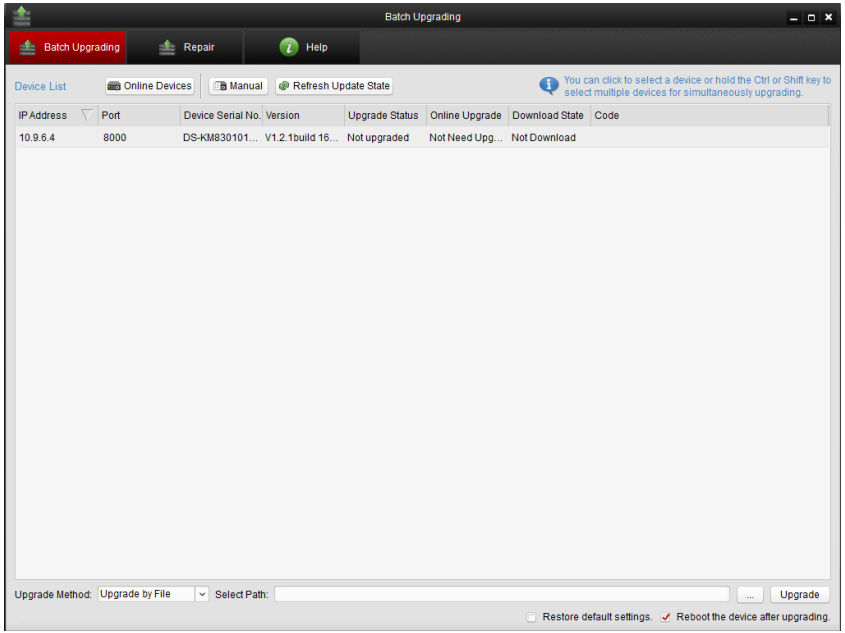
OPERATION

Batch Upgrading

Door Station/Villa Door Station/
Indoor Station/Master Station： ≤ 256

FUNCTION:

- Online Device – Login Device – Add Device
- Manual (BY IP or IP Segment)
- Batch Upgrading



Thanks

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