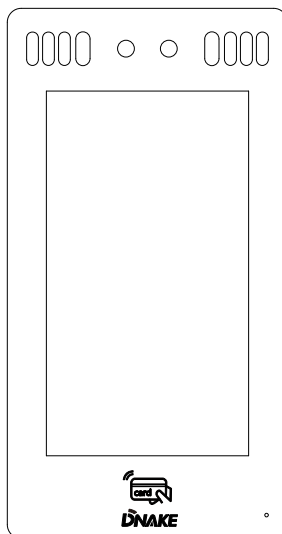DNAKE

DOOR STATION

MODEL：

905D-Y4 Pro

USER MANUAL

REMARK

Please follow the user manual for correct installation and testing. If there is any doubt please call our tech-supporting and customer center.

Our company applies ourselves to reformation and innovation of our products. No extra notice for any change. The illustration shown here is only for reference. If there is any difference, please take the actual product as the standard.

The product and batteries must be handled separately from household waste. When the product reaches the end of service life and needs to be discarded, please contact the local administrative department and put it in the designated collection points in order to avoid the damage to the environment and human health caused by any disposal. We encourage recycling and reusing the material resources.
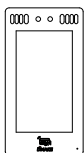
CATALOG

TECHNICAL PARAMETERS

1. Working voltage: DC12V
2. Rated power: 25W
3. Standby power： 5W
4. Working temperature: -40℃～+55℃
5. Storage temperature： -40℃～+70℃
6. Working Humidity: 10% to 90% (noncondensing)
8. RAM: 2GB
9. ROM: 8GB
10. Camera: 1920*1080CMOS

PACKAGE CONTENTS

Please make sure the package contains the following items：

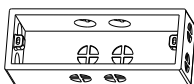|			
Door Station	Screw	PoE Splitter	Screw Wrench

|		
Bracket	Flush Mounting Box	Quick Start Guide

BASIC FUNCTION

1. Video intercom with indoor monitor and master station;
2. Support unlocking by IC card;
3. It can register IC card information on the door station and store up to 100,000 IC cards;
4. Support password unlocking and exit button unlocking;
5. Support face recognition function;

PICTURES

LED Light

Camera

Display

Card reader area

Microphone

Speaker
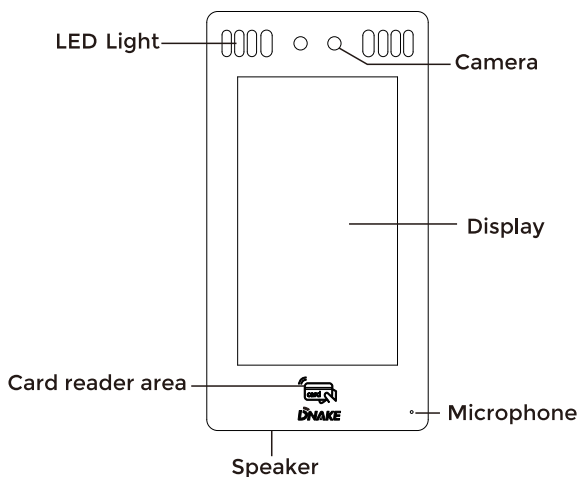
BASIC OPERATIONS

After the door station is powered on, the LCD display is shown as below:
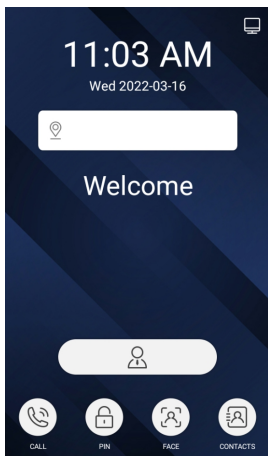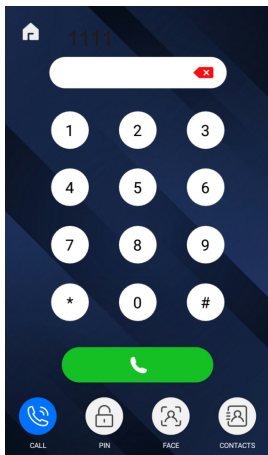

Main menu: CALL, PIN, FACE and CONTACTS.

🔲: one key to call master station.

1. CALL

In a standby mode, input room number on door station. For example, input "1111" on door station, then press "📞" to call.

Note: During communication, pressing "📞" on the door station, the call will be cut off.

2. PIN

In a standby mode, input the PIN number(default is 0000). Then press "▭" key to confirm. If the PIN number is correct, the door will be unlocked; if not, it will make a sound like "clatter clatter".
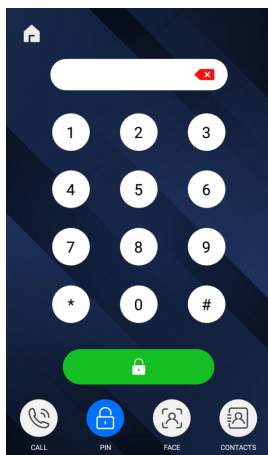
3. FACE

When someone looks at the LCD screen, door station will automatically start the face recognition. If the face ID has been registered, the door will be unlocked. In the state of face recognition, click "▭" to call master station.
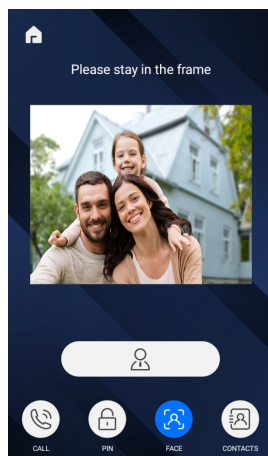
4. CONTACTS

In this interface, you can search the contact by name or apartment number, click " " icon to contact.
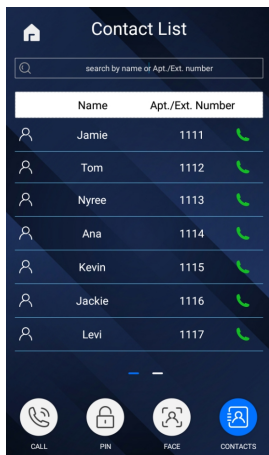
BASIC SETTINGS

Click "PIN" icon and press six-digit admin password(default password: 123456), then press "#" to enter the system settings.
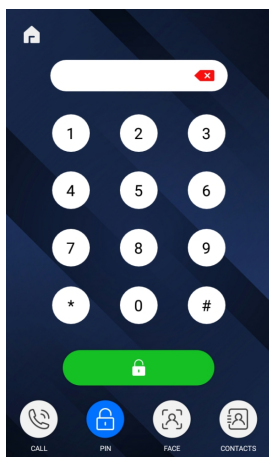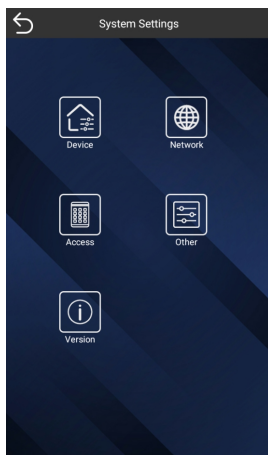
In System Settings page, you can set the following items:

1. Device

Press "Device" icon to enter the following setting interface:

1.1 Building No., Unit No., Index and Password

Select the item to set⇨Input the number to change ⇨ Press "Save" to confirm. When the door station gives an indication tone, it means that it is changed successfully.

Note：Please keep the admin password confidential. If the password is forgotten, the user will not be able to log into the system. The password can only be recovered by resetting to factory default.

1.2 Mode

The device can be used as unit door station or wall door station. The device mode can be set through the item "Mode".

Press "Save" to confirm after inputting. When the door station gives an indication tone, it means that it is changed successfully. If the device is used as unit door station, it can only call the indoor monitors in this unit. If the device is used as wall door station, it can call all the indoor monitors in the whole community.

1.3 Language, Volume and Size

The language, volume and size (resolution) are set in the same way as the settings of device mode. "Language" is used to set the language to be shown on the door station, supporting English, traditional Chinese, Spanish and so on. "Volume" is used to set the prompt tone of door station, including 1-6 volume levels selection. There is 320x240, 640x480, 1280x720 or 1920x1080 for the size.

2. Network

Press "Network" icon to enter the following setting interface：

2.1 DHCP

Select this item to go to settings. Press "Save" to confirm after inputting. When the door station gives an indication tone, it means that it is changed successfully. The user can enable or disable the function.

2.2 IP

The default IP address of the system is 192.168.68.90. As for the devices which are connected on the same LAN (the same subnet of network segment), their IP addresses cannot be the same.

2.3 Mask

The system default is 255.255.255.0.

2.4 Gateway

It refers to the gateway address for network segment of device's IP address. The system default is 192.168.68.1.

2.5 DNS

The system default is 8.8.8.8.

2.6 CMS IP

The CMS IP address refers to the IP address of computer with management software. In case that management software isn't required for managing the intercom devices, this setting is invalid. The default IP address of server is 192.168.12.40.

3. Access

Press "Access" icon to enter the following setting interface：
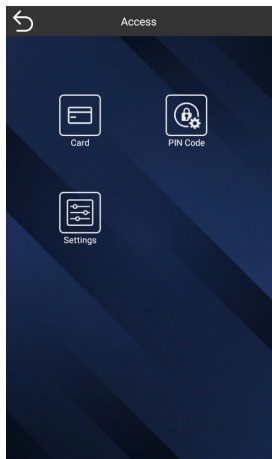
3.1 Card

Press "Card" icon to enter the following setting interface：
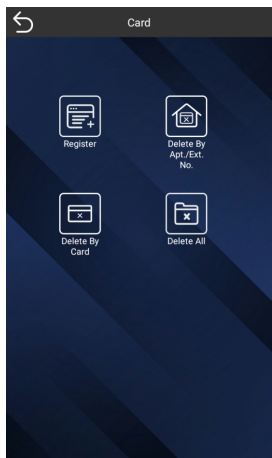
3.1.1 Register

Enter Name and Apartment No., click "Next" icon, and then swipe the card on the card reader area of the door station to complete the card registration.

3.1.2 Delete By Apt./Ext.No.

Enter Apt./Ext.No., click "Next" icon, select the card to be deleted, and click "Confirm" to delete it successfully.

3.1.3 Delete By Card

Press "Delete By Card" icon, swipe the card on the card reader area of the door station to delete the card.

3.1.4 Delete All

Press "Delete All" icon, and click "Confirm" to delete all card.

3.2 PIN Code

Press "PIN Code" icon to enter the following setting interface：

The page is used for setting the PIN Code to unlock the door. The system default password is 0000. Eight unlocking passwords can be added.

3.3 Settings

Press "Settings" to enter the following setting interface：

3.3.1 Open Time

The item is used for setting door opening time length.

Select this item to go to settings. Input any number from 1 to 9. If the user enters the number 3, it means the opening time is set to 3 seconds. Press "Save" to confirm after inputting. When the door station gives an indication tone, it means that the time is changed successfully.

3.3.2 Open Delay

The item refers to delay duration of opening, meaning how long it will delay opening the door after the user presses the unlock button on the indoor monitor.

Select this item to go to settings. Input any number from 1 to 9. If the user enters the number 5, it means the delayed opening time is set to 5 seconds. Press "Save" to confirm after inputting. When the door station gives an indication tone, it means that the time is changed successfully.

3.3.3 Elev Refer (This item can only be used after connecting to Elevator Control Module.)

The item is used for setting the floor No. of door station.

Select this item to go to settings. Set the floor No. of door station ranging from 01 to 99. After the door is unlocked, the elevator will reach the floor of door station. Press "Save" to confirm after inputting. When the door station gives an indication tone, it means that it is changed successfully.

3.3.4 Encrypt

This item is used for IC card encryption. Press "Save" to confirm after inputting. When the door station gives an indication tone, it means that it is changed successfully. The user can enable or disable the function.

3.3.5 Face

This item is used for enabling or disabling face recognition.

3.3.5 Similarity

The item "Similarity" is used for setting the face similarity. There are 3 levels to choose.

3.3.5 Live Detect

The item "Live Detect" is used for detecting human face in case some might use photo or video to break in.

4. Other

Press "Other" icon to enter the following setting interface:
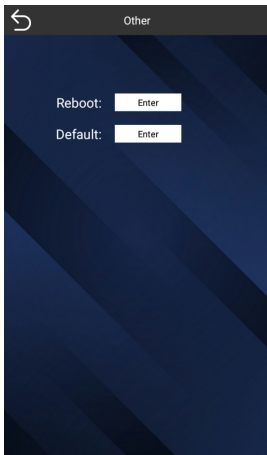
Others page is used for reboot.
Reboot: click to reboot the device.
Default: click to reset to factory default.

5. Version

Press "Version" icon to enter the following setting interface:
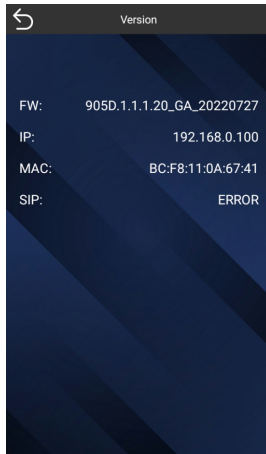
You can look over the relevant information.

WEB SETTINGS

Connect door station and PC to the network switch on the same LAN. Input IP address of door station in the web browser of PC, then input the user name and password(the default name is admin, the password is 123456) to enter into the following interface:

Main page is used for showing firmware version and the status of SIP registration.

1. Network:

Network page is used for setting up network of device here.

DHCP: obtain IP address via DHCP;

IP: static IP address.

Mask: subnet mask.

Gateway: it depends on IP address.

DNS: Domain Name Server;

Server IP & Password: server is the IP of CMS and password is the admin's password of device.

2. Device:

Device is used for setting up connection with other devices.

BuildNo: number of the building;

UnitNo: number of the unit;

No: number of the room;

Sys Passwd: admin password;

Panel mode: unit-Door Station used in the building entrance; wall-Door Station used in the community entrance; person-Door Station used in the villa entrance;

Language: various types of language;

Volume: adjust the volume;

Video: resolution of the device;

Forward: the call can be made one by one or simultaneously;

Dial Mode: the call mode can be set to normal or repeated;

3. Time:

NTP: Network Time Protocol (NTP) is a protocol used to synchronize computer time. Enable NTP and fill in NTP Server and NTP Port to synchronize computer time;

24-Hour: enable to use 24H format;

Time Zone: A time zone is a region that observes a uniform standard time for legal, commercial, and social purposes;

Set Time: enable to set time;

Time/Date: Defining time or date can be set.

4. Access:

Access is used for setting up unlock time, elevator and unlock password.

Unlock Timeout: door opening time length;

Unlock Delay: delay duration of unlock;

Elev refer: used for setting the floor of Door Station ranging from 01 to 99;

Security ON/OFF: alarm switch;

Unlock Passwd: used for unlocking the door. The system default password is 0000. Eight unlocking passwords can be added.

Card Registration:

The Admin Card is used for registering user card. There are two ways to register the admin card:

1. The user enters card No. of the admin card in the box after "Admin Card" and then clicks "Submit" to finish the registration of the admin card.

2. If the user isn't aware of admin card No., please enter 0 in the box first and click "Submit". Then place the admin card close to the card reader area. When the system gives an indication tone, it means that the card is registered successfully.

When registering the user card, the user should swipe the admin card first. The system emits a beep. Then place the card to be registered near the card reader area within 10 seconds. If the system gives an indication tone, it means that the user card is registered successfully. When registering the user card, the card to be registered should be swiped 10 seconds after the admin card is swiped. Once a user card is registered, it will postpone for 10 seconds.

5. VOIP:

The page is used for setting up SIP.

SIP Enabled: switch to enable or disable SIP;

Proxy: fill server address and port, the format: sip:server address:port;

Realm: fill server address and port, the format: server address:port;

Outbound: if you don't have outbound server, leave it blank;

STUN IP & STUN Port: fill your STUN IP server and port if needed;

H.264: advanced Video Coding;

User & Password: user and password of SIP;

Timeout: maximum call duration;

Ringing: ringing time of indoor monitor when it's called. The time can be set at 35 seconds, 45 seconds, 60 seconds, 90 seconds or 120 seconds.

6. Forward (Call transfer):

This setting is used for make the call from Door Station to other SIP device, such as IP phones. For example, the SIP account of IP phone is 2008, and the sip server is 192.168.0.96, fill sip:2008@192.168.0.96 in Account. And if you want to press 1 on the Door Station to make the call to this IP device, fill 1 in RoomNo.

Room/Ext.No. & Account: the forwarding target;

Delete: delete the corresponding account.

7. Card Manage:
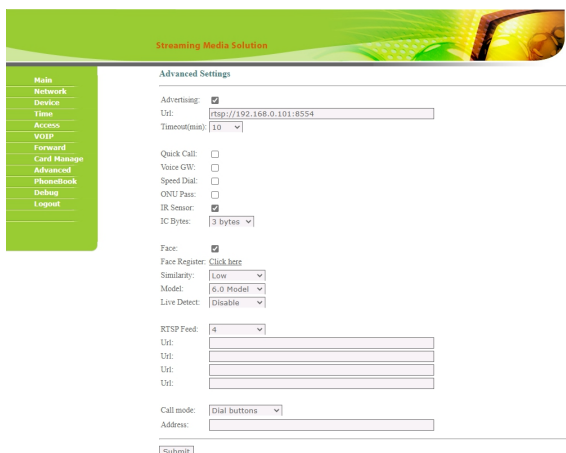
Card is used for adding cards.

Card & Apt/Ext.No. & Name: register or delete cards;

Export file & Upload: export file all cards info or upload a file to register cards in bulk.

8. Advanced

Advanced page is used for setting up accessibility features.

Advertising: check the box to enable this function. Enter the specified advertisement URL in the box. The door station will play the online advertisement automatically.

Quick Call: call the corresponding URL by management-center button or icon;

Voice GW: Voice Gateway, used to connect devices support Voice gateway;

Speed Dial: press random number to call out automatically;

ONU Pass: if using optical cable but not network cable in the building, it should be enabled;

IR Sensor: enable to sense human activity to trigger face recognition;

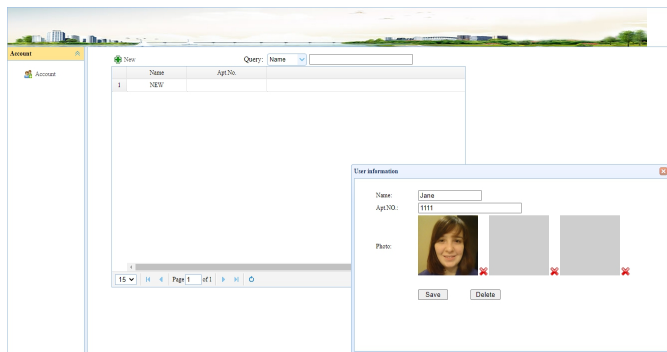IC Bytes: IC card sectors (3 & 4 bytes)for users to choose

Face: this item is used for face. The user can enable or disable the function.

Face Register: click "Click here", The system will jump to the following interface:

Click "New", customize your name and fill in Apt. NO., click Photo to upload your picture and save settings.

Similarity: the item "Similarity" is used for setting the face similarity. There are 3 levels to choose.

Live Detect: the item "Live Detect" is used for detecting human face in case some might use photo or video to break in.

RTSP Feed: add IPC to Door Station to allow Indoor Monitor switch among Door Station and IPCs while calling.

Call mode: two modes of CALL, Dial buttons & Call buttons. In call buttons mode, Apt./Ext. No. will display on CALL page of Door Station. In dial buttons mode, dial plate will display on CALL page of Door Station.

Address: fill in address which will display on the homepage of Door Station as a location.

9. Phonebook:

This interface is used to manage Phonebook.

Apt/Ext. Name: name can be customized;

Apt/Ext. No.: fill in No. address of device;

Apt/Ext. IP: fill in IP address of device;

Delete/Delete All: delete one or all listed devices below.

Export file/Upload: export a phonebook file to add devices and upload it to the list below.

10. Debug

Debug page is used for problem solving.

Tcpdump: click start to use packet analyzer and export to download file;

Logcat: click start to record the logs of device and export to download file.

Backup: click backup to export file which contains all your settings including face info. Select file and click restore to restore settings.

11. Logout
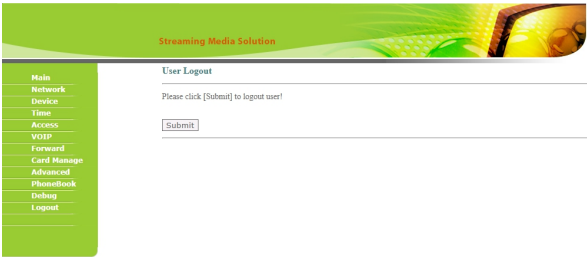
Logout page is used for signing off.

User Logout: click to logout the webpage. After that, you can use other accounts to login.

SYSTEM CONFIGURATION

SYSTEM DIAGRAM

Network

Wiegand

1	2	3	4
+5V	GND	WD0	WD1

Power/Switching Value Output

1	2	3	4	5
+12V	GND	NC	COM	NO

RS485/Exit/Door-detector

1	2	3	4	5	6	7	8
+12V	GND	485+	485-	EXIT	DS	XF	DIN

USB

1	2	3	4
VBUS	DM	DP	GND

905D-Y4 Pro
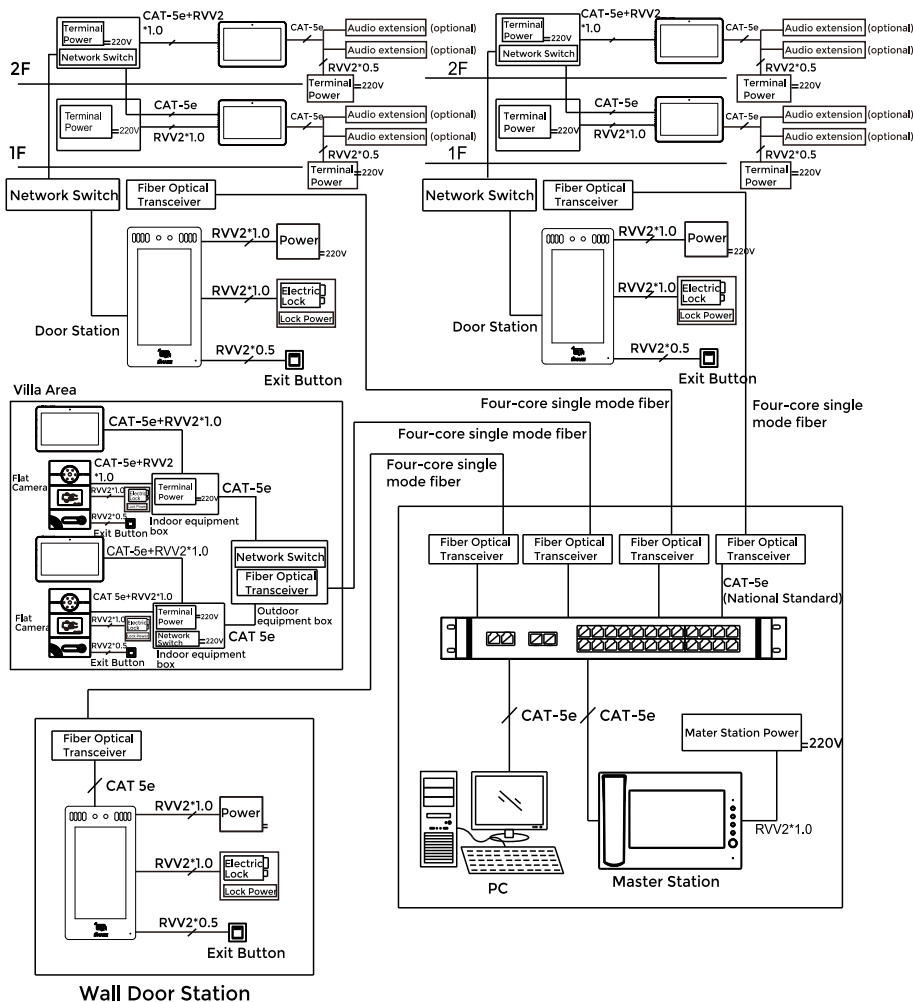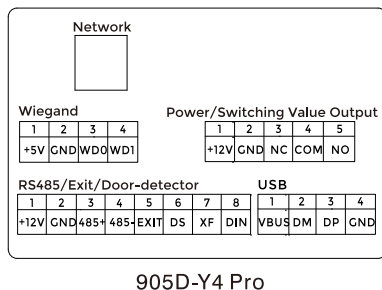
1. Network

Connect with master station, indoor monitor or other network equipment by network switch.

CAT-5e

Network
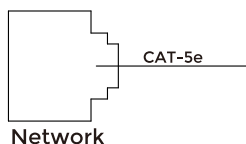
2. Power/Switching Value Output

Power interface of door station connects with 12V DC power. Switching value output connects with electric lock. Independent power supply is required for the lock.

+12V
GND
NC
COM
NO

● +12V
● GND

12V DC power supply
Normally-closed connection of relay
Common end of relay
Normally-open connection of relay
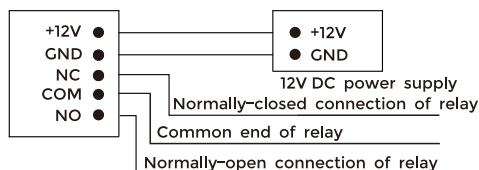
3. RS485 Interface/Exit Button/Door-detector Switch/Fire Fighting Linkage

RS485 interface can connect to the equipment with RS485 interface, and output 12V/100mA power. DIN is reserved terminal, please don't connect it.
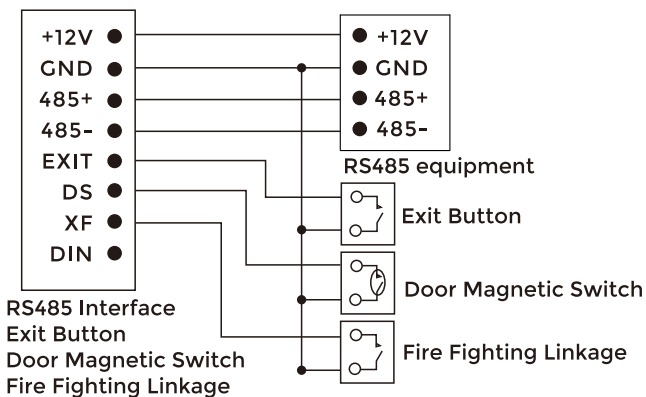
4. USB Interface

It is used to connect USB peripherals and supports connection with USB2.0 device.
It can output 5V / 50mA power supply.
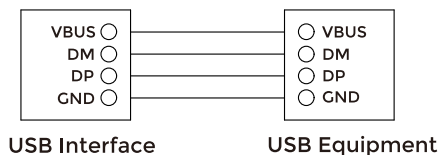
5. Wiegand Interface

The interface can be connected to one IC card reader or be used for reading the information of built-in card reader. It can output the power 5V/100mA. When the card reader doesn't need the power from the interface, connection of +5V isn't required.

+5V ○	○ +5V
GND ○	○ GND
WD0 ○	○ WD0
WD1 ○	○ WD1

Wiegand Interface   IC Card Reader or Management Device
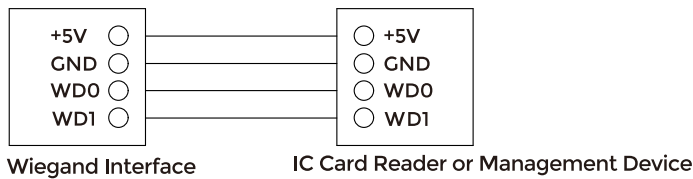
Note: Only one card reader can be connected to door station. When there is built-in card reader, the interface can only be used for reading the information of built-in card reader.

6. PoE Splitter

Network OUT
To 905D-Y4 pro Network

Network(PoE) IN

To 905D-Y4 pro Power/
Switch Value Output

INSTALLATION

Screws

PoE Splitter

Flush Mounting Box

Bracket

Screw
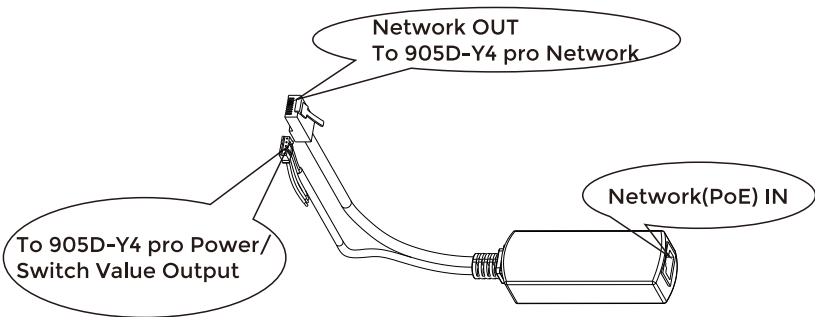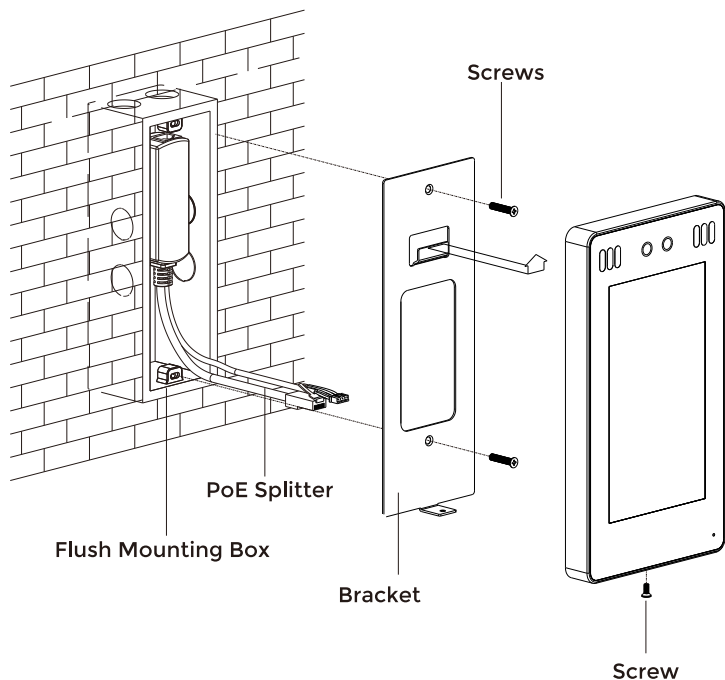
Product size：227x122x39.2mm
Flush mounting box size：69x182.2x53mm
Installation size：70x183x54mm

Installation method:

1. According to the installation dimension of door station, dig a square groove at the appropriate position in the wall or door, and dig a hole (drainage hole) at the bottom;

2. Drill the threading holes at the bottom of the built-in box to facilitate drainage. Upward arrow is on the front of the built-in box. Embed the built-in box into the wall, then put the built-in box into the groove of the wall, and tighten four screws from top to bottom of the built-in box, or fix the built-in box in the wall with concrete;

3. Assemble the door station into the built-in box, align the groove and the built-in box, tighten the screws, and finally inject the glass glue into the top, left and right sides of the door station(note: the glass glue cannot be injected into bottom part that is reserved for the drainage hole at the bottom of door station).

Installation Instructions:
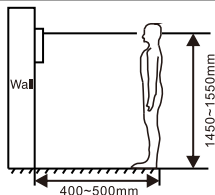
[Suggestion]: The camera should be 1450∼1550mm above the ground. The camera at this height can capture human face perfectly.

TROUBLESHOOTING

Some common failures and troubleshooting methods are listed for your reference. In case of failure which cannot be repaired, do not disassemble or repair the product by yourself. Please contact the after-sales service department.

When unit door station or wall door station fails to call indoor monitor：

When setting door station, please make sure building No. and unit No. of door station are the same as the ones of indoor monitor；

Please check whether the network is connected；

Please check if there are any security settings for the network, such as VLAN configuration；

When unit door station, wall door station or indoor monitor fails to call master station：

Please check whether the network is connected；

Please check if there are any security settings for the network, such as VLAN configuration；

SAFETY INSTRUCTIONS

In order to protect you and others from harm or your device from damage, please read the following information before using the device.

Do not install the device in the following places:
■ Do not install the device in high-temperature and moist environment or the area close to magnetic field, such as the electric generator, transformer or magnet.
■ Do not place the device near the heating products such as electric heater or the fluid container.
■ Do not place the device in the sun or near the heat source, which might cause discoloration or deformation of the device.
■ Do not install the device in an unstable position to avoid the property losses or personal injury caused by the falling of device.

Guard against electric shock, fire and explosion:
■ Do not use damaged power cord, plug or loose outlet.
■ Do not touch the power cord with wet hand or unplug the power cord by pulling.
■ Do not bend or damage the power cord.
■ Do not touch the device with wet hand.
■ Do not make the power supply slip or cause the impact.
■ Do not use the power supply without the manufacturer's approval.
■ Do not have the liquids such as water go into the device.

Clean Device Surface
■ Clean the device surfaces with soft cloth dipped in some water, and then rub the surface with dry cloth.

Other Tips
■ In order to prevent damage to the paint layer or the case, please do not expose the device to chemical products, such as the diluent, gasoline, alcohol, insect-resist agents, opacifying agent and insecticide.
■ Do not knock on the device with hard objects.
■ Do not press the screen surface. Overexertion might cause flopover or damage to the device.
■ Please be careful when standing up from the area under the device.
■ Do not disassemble, repair or modify the device at your own discretion.
■ The arbitrary modification is not covered under warranty. When any repair required, please contact the customer service center.
■ If there is abnormal sound, smell or fume in the device, please unplug the power cord immediately and contact the customer service center.
■ When the device isn't used for a long time, the adaptor and memory card can be removed and placed in dry environment.
■ When moving, please hand over the manual to new tenant for proper usage of the device.

EASY & SMART
INTERCOM SOLUTIONS

DNAKE