

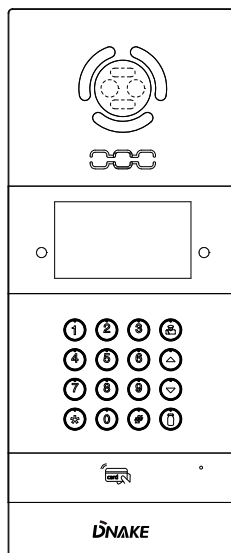


DOOR
STATION

MODEL:

280D-B9

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

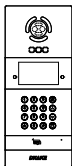
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TECHNICAL PARAMETERS

1. Working voltage: DC12V
PoE
2. Rated power: 9W
3. Standby power: 1.5W
4. Working temperature: $-40^{\circ}\text{C}\sim+55^{\circ}\text{C}$
5. Storage temperature: $-40^{\circ}\text{C}\sim+70^{\circ}\text{C}$
6. Working Humidity: 10% to 90% (noncondensing)
8. RAM: 64MB
9. ROM: 128MB
10. Camera: 1920*1080CMOS

PACKAGE CONTENTS

Please make sure the package contains the following items:



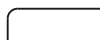
Door Station



Screw



Expansion Tube



Screw Wrench

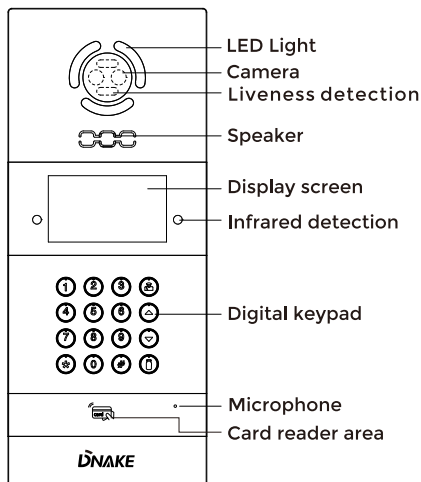


Quick Start Guide

BASIC FUNCTION

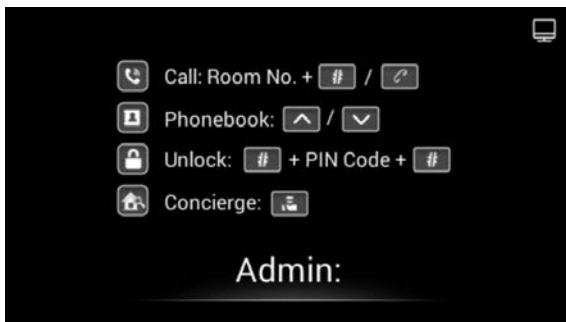
1. Video intercom with indoor monitor and master station;
2. Support unlocking by IC card;
3. It can register IC card information on the door station and store up to 20,000 IC cards;
4. Support password unlocking and exit button unlocking;

PICTURES



BASIC OPERATIONS

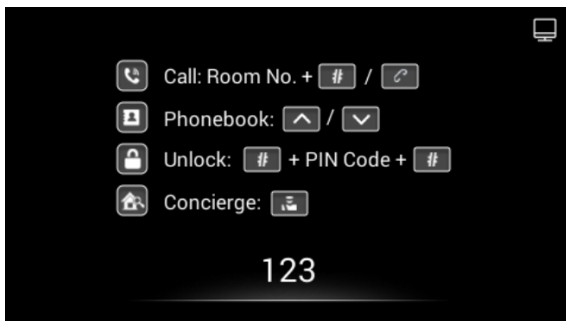
After the door station is powered on, the LCD display is shown as below:



1. Calling indoor monitor

In a standby mode, input room number on door station, for example, when inputting "123" on door station, the LCD display will show as below, then press “#” to enter the call state.

Note: During communication, pressing “*” on the door station, the call will be cut off.



2. Phonebook

In a standby mode, press “^” or “v” button on the keypad to open phonebook page. Select and press “#” or “☎” on the keypad to call.



3. Unlock the door

3.1. Unlocking by PIN Code

In a standby mode, press “#” key and enter the PIN Code(default is 0000). Then press “#” key to confirm. If the password is correct, the door will be unlocked; if not, it will make a sound like “clatter clatter”.














3.2. Unlocking by IC/ID card

Put the registered IC/ID card on card reader area of the door station. If successful, the door will be unlocked.

4. Calling concierge

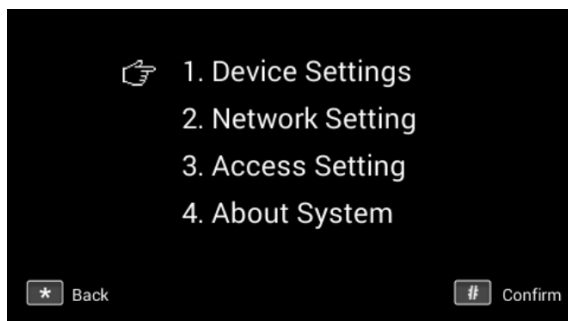
In a standby mode, press “ ” to call concierge directly. During ringing, press “*” key to cancel the call.

 Call: Room No. +  / 
 Phonebook:  / 
 Unlock:  + PIN Code + 
 Concierge: 

Calling

BASIC SETTINGS

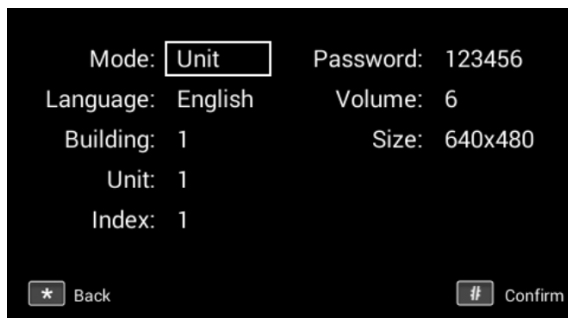
Press "#" key twice, LCD display will show as below. Enter six-digit admin password(default password: 123456) and go to settings.



In System Settings page, you can set the following items.

1. Device Settings

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



1.1 Mode

The device can be used as unit door station or wall door station.

Press “#” 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.

1.2 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 simplified Chinese, English, traditional Chinese and Spanish. "Volume" is used to set the prompt tone of door station, including 1-6 volume levels selection. There is 320x240, 640x480 or 1280x720 for the size.

1.3 Building, Unit, Index and Password

Select the item to set ⇒ Input the number to change ⇒ Press “#” 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.

2. Network Setting

Press “Network Setting” to enter the following setting interface:

DHCP: **Enable**

IP: 192.168.1.90

Mask: 255.255.255.0

Gateway: 192.168.1.1

DNS: 8.8.8.8

Server: 127.0.0.1

Back Confirm

2.1 DHCP

Select this item to go to settings. Press “#” 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 to 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 Server

The server 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 Setting

Press “Access Setting” to enter the following setting interface:



The image shows a black screen with white text for the 'Access Setting' interface. The settings are as follows:

Setting	Value
Timeout:	3
Delay:	0
Elev Refer:	12
Password:	0000
Secret:	Disable

At the bottom left, there is a button with a star icon and the text 'Back'. At the bottom right, there is a button with a hash icon and the text 'Confirm'.

3.1 Timeout

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 8, it means the unlocking time is set to 8 seconds. Press “#” to confirm after inputting. When the door station gives an indication tone, it means that the time is changed successfully.

3.2 Delay

The item refers to delay duration of unlocking, meaning how long it will delay unlocking 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 “#” to confirm after inputting. When the door station gives an indication tone, it means that the time is changed successfully.

3.3 Elev Refer (This item can only be used after connection to elevator control devices)

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 “#” to confirm after inputting. When the door station gives an indication tone, it means that it is changed successfully.

3.4 Password

The item is used for setting the password to unlock the door. Press this item to go to settings. Press “#” to confirm after inputting. When the door station gives an indication tone, it means that it is changed successfully.

3.5 Secret

This item is used for IC card encryption. Press “#” 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.

4. About System

Press “About System” 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 Settings:



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;

NTP: fill in Network Terminal Protocol to synchronize the time;

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

2. Device:

Streaming Media Solution

Home
Network
Device
Access
VMS
Forward
Advanced
Others
Logout

Device Settings

BuildNo:
UnitNo:
No:
Password:
Mode:
Ringing:
Timeout:
Language:
Volume:
Video:
Forward:
Dial Mode:

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;

Password: admin password;

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;

Ringing: ring time

Timeout: maximum call duration;

Language: various types of language;

Volume: adjust the system volume with 6 levels for selection;

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. Access Settings:

Streaming Media Solution

Home
Network
Device
Access
VMS
Forward
Advanced
Others
Logout

Access Settings

Unlock Timeout:
Unlock Delay:
Bar code:
Admin Card:
Security ON/OFF:
Secret:
Unlock Password:

0000	1234
1234	5678
5678	9012
9012	3456

Access is used for setting up unlock time, elevator, admin card 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;

Admin Card: add admin card;

Del All Card: delete all registered cards;

Security ON/OFF: alarm switch;

Secret: used for cards encryption;

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.

4. VOIP:



The screenshot shows the 'SIP Settings' window of a 'Streaming Media Solution' application. The window has a green header with the title 'Streaming Media Solution' and a small image of a laptop. On the left is a green sidebar with a menu containing: Home, Network, Device, Access, SIP, Advanced, Others, and Logout. The main area is titled 'SIP Settings' and contains the following fields:

- Enable:** A checkbox that is currently checked.
- Proxy:** A text box containing 'sip:192.168.68.1'.
- Realm:** A text box containing '192.168.68.1'.
- User:** A text box containing '100'.
- Password:** A text box containing '0000'.
- W266:** A text box containing '100'.
- STUN IP:** A text box containing '192.168.68.1'.
- STUN Port:** A text box containing '5060'.

At the bottom left of the window is a back arrow icon, and at the bottom right is a 'Submit' button.

The page is used for setting up 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;

User & Password: user and password of SIP;

H.264: advanced Video Coding;

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

5. Forward (Call transfer):



The screenshot shows the 'Forward Account Settings' page. On the left is a green sidebar with a menu: Home, Network, Device, Account, SIP, Forward, Advanced, Others, Logout. The main content area has a title 'Forward Account Settings' and a sub-header 'Forward Account Settings'. It contains a 'RoomNo' input field with a dropdown arrow, an 'Account' input field, and a 'Delete' checkbox. Below these is a 'Submit' button. At the bottom, there is a table with columns 'RoomNo' and 'Account', containing three rows of data.

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.

RoomNo & Account: the forwarding target;

Delete: delete the corresponding account.

6. Advanced



The screenshot shows the 'Advanced Settings' page. On the left is a green sidebar with a menu: Home, Network, Device, Account, SIP, Forward, Advanced, Others, Logout. The main content area has a title 'Advanced Settings'. It contains several settings: 'Quick Call' with a checkbox, 'Uri' with a text input field containing 'sip:101@192.168.88.100', 'Voice Call' with a checkbox, 'Uri' with a text input field containing 'sip:101@192.168.88.100', 'Speed Dial' with a checkbox, 'ONC Pass' with a checkbox, '4G Degrade' with a checkbox, and 'RTSP Fwd' with a dropdown menu set to 'Disable'. At the bottom left is a back arrow, and at the bottom center is a 'Submit' button.

Advanced page is used for setting up accessibility features.

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

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

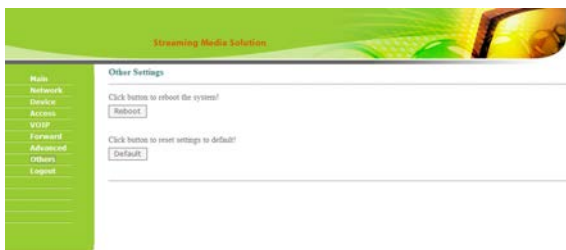
Speed Dial: press random number to call out automatically;

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

4G Dongle: check the box to enable 4G Internet.

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

7. Others



Others page is used for reboot.

Reboot: click to reboot the device.

Default: click to default the device.

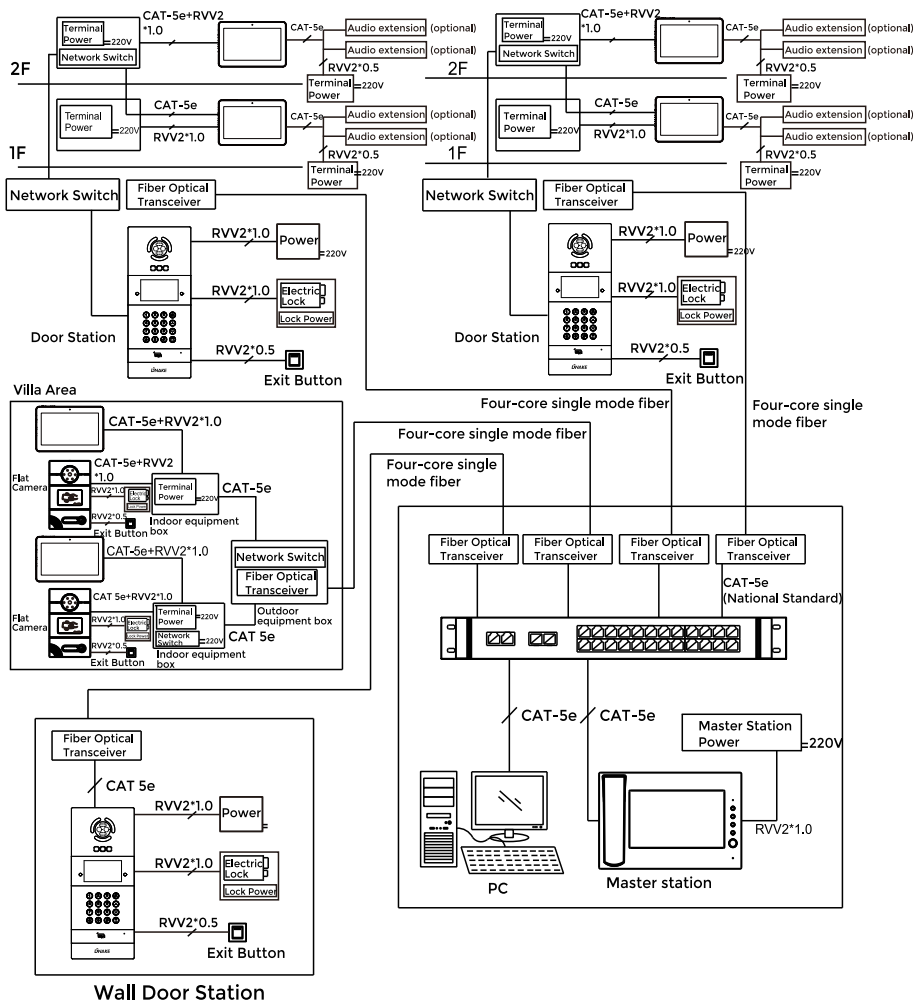
8. Logout



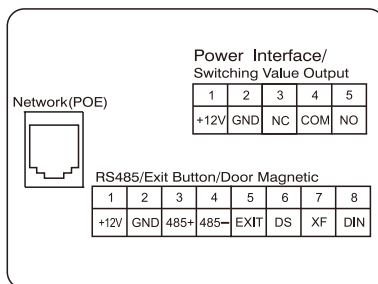
Logout page is used for signing off.

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

SYSTEM CONFIGURATION



SYSTEM DIAGRAM

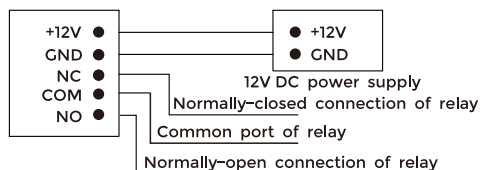


280D-B9

1. Power Interface/ Switching Value Output

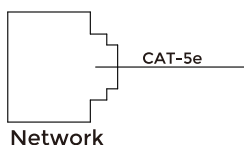
Power interface connects with 12V DC power.

Switching value output connects with electric lock. Relay terminal can withstand the lock current of max.3.5A. Independent power supply is required for the lock.



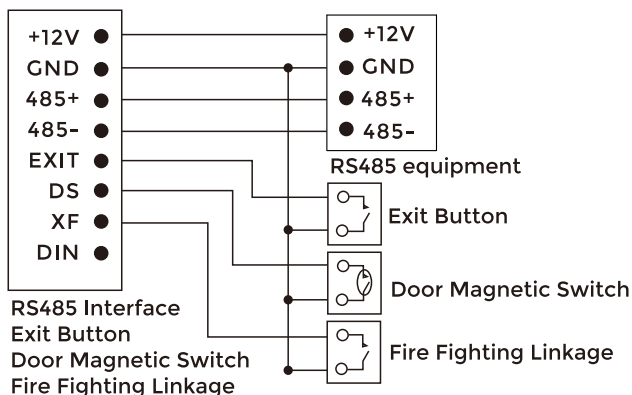
2. Network(PoE)

Connect to PC, master station, indoor monitor or other network device through network switch.

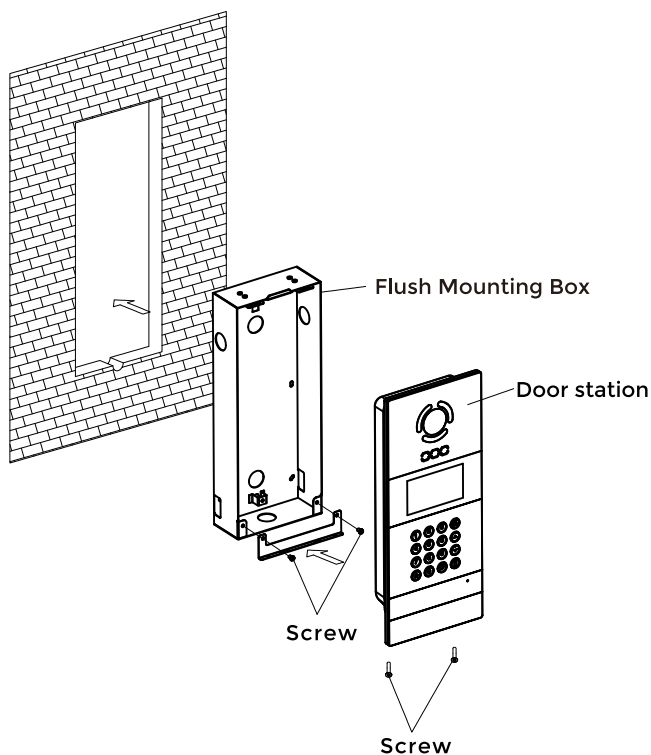


3. RS485 Interface/Exit Button/Door Magnetic Switch/Fire Fighting Linkage

RS485 interface can connect to the equipment with RS485 interface; DIN is reserved terminal, please don't connect it.



INSTALLATION



Product size: 158x380x55.7mm

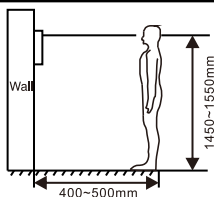
Flush mounting box size: 142x358x59.5mm

Installation size: 148x364x65mm

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