

Unit Door Station User's Manual

IHX-C1201 Series

Welcome

Thank you for purchasing our product!

This quick start guide is designed to be a reference tool for your system. Please keep it well for future reference!

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1 Overview

Connect the device to the power, the system boots up properly. After one minute, the screen turns on and the boot-up completes, system goes to the normal working interface. The front panel is shown as in Figure 1- 1 and Figure 1- 2.



Figure 1- 1

Please refer to the following sheet for detailed information.

SN	Name	Function
1	Logo	Decoration logo.
2	Photo Sensor	It can detect the environment light. It is a compensation light option.
3	Compensation Light	It can compensate the camera light in the low illumination environments.
4	Microphone	Audio input

5	Key Panel	1.  Button. a) Backspace function. It is to delete the previous symbol. b) Hang up function. It is to hang up the call. 2. Number button. Input the number 0 to 9. 3.  button. When you are using the password to open the door. Press this button once to begin input. After you input the password, please press it again to complete the operation. 4.  Call button. After you input the room number, press it to begin a dial up. 5.  Call management (MGT) center button. Press it to call the MGT center directly.
6	Speaker	Output audio
7	Card Induction zone	Use the card to open the door.
8	LCD	Here you can view prompt information, date, time and etc. Note: 1. "Call: Room No. +  ". Please input the room number first and then press the button  to dial; 2. "Center: Press  button". Please press the button  to call the MGT center. 3. "Unlock:  + password +  ", If you want to open the door via the password, please press the button  and then input the room number and password. Please press the button 

		to confirm.
9	Camera	It is to monitor the video of the door.

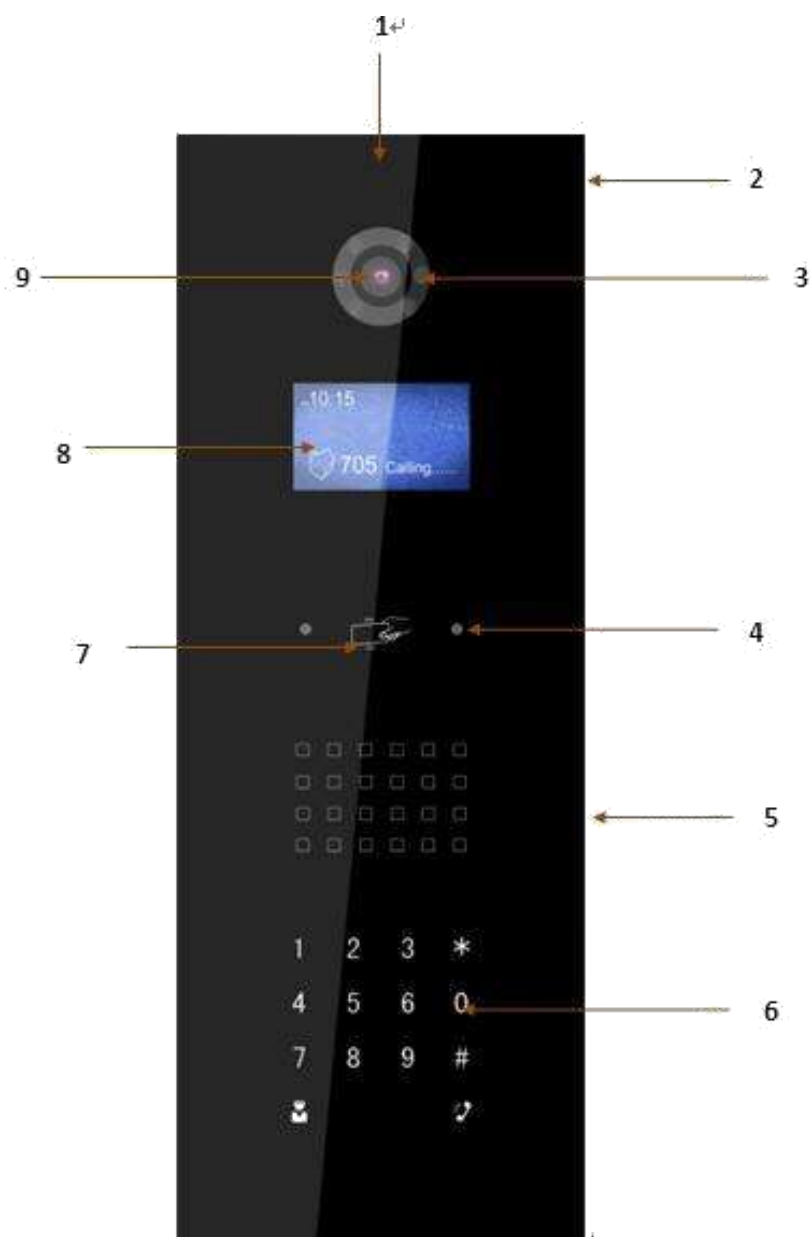


Figure 1- 2

Please refer to the following sheet for detailed information.

SN	Name	Function
1	Logo	Printed logo.
2	Microphone	Audio input
3	Compensation Light	It can compensate the camera light in the low illumination environments.
4	Approaching Induction	It can detect approaching body.
5	Speaker	Output audio

6	Key Panel	1. * Button. a) Backspace function. It is to delete the previous symbol. b) Hang up function. It is to hang up the call. 2. Number button. Input the number 0 to 9. 3. # button. When you are using the password to open the door. Press this button once to begin input. After you input the password, please press it again to complete the operation. 4.  Call button. After you input the room number, press it to begin a dial up. 5.  Call MGT center button. Press it to call the MGT center directly.
7	Card Induction Zone	Use the card to open the door.
8	LCD	Here you can view prompt information, date, time and etc. Note: 1. "Call: Room No. + 
9	Camera	It is to monitor the video of the door.

2 Basic Functions

2.1 Call MGT center

In the standby status (Figure 1- 1, Figure 1- 2), press  or  button, this IHX will call the MGT center. The video door phone begins when the MGT Port picks up.

During the whole process, you can press the button  or  to end current dialogue and return to the standby interface.

2.2 Call Users

2.2.1 Call Status

In the standby status, input the room number and then press the button  or  , you can generate a call to the IHD of the user. During the process, you can press the button  or  to end current dialogue and return to the standby interface.

2.2.2 Communication status

After you generated a call to the IHD, if there is response, you can enter communication status. It can realize the dual-way video phone. During the process, you can press the button  or  to end current dialogue and return to the standby interface.

2.3 Monitor Function

The MGT Port and the IHD can both enable the monitor function which turns on the camera and monitors the device video.

2.4 Unlock Function

2.4.1 Unlock During the Dial Process

During the dial process, the MGT Port or the IHD can open the door lock of the device remotely. System returns to the standby interface after phone hangs up or the countdown is complete.

2.4.2 Unlock During the Communication

During the communication process, the MGT Port or the IHD can open the door lock of the device remotely. System returns to the standby interface after phone hangs up or the countdown is complete.

2.4.3 Unlock During the MON

During the MON, the MGT Port or the IHD can open the door lock of the device remotely. System returns to the standby interface after phone hangs up or the countdown is complete.

2.4.4 Unlock via the Password

In the standby status, press the button  or  and then input the room number and password. Press the button  or  to confirm the operation. The door is open if the password authentication is OK.

2.4.5 Unlock via IC card

The door is open after you swipe IC card and the card passed the authentication and station verification.

2.5 Environment Light Compensation Function

This device has the light compensation function when it is in the low illumination environments or it is at night. It includes the LCD backlight and the camera compensation light.

2.6 Access Control (A&C) Function

The device can connect 1-channel door sensor input. It can be used to detect door status. There is 1-channel door on-off button to open/close the door.

It has 2-channel control output. There are two modes: NO/NC. It can also be used for other general controls. Please refer to later sections for detailed information.

2.7 Vandal Proof Function

There is 1-channel vandal proof button. System can generate an alarm once it is removed from the wall. At the same time, it can upload the alarm information to the MGT center.

2.8 Approaching Induction

Only IHX-C1202B have this function. When there is any body approaching the IHX at a distance about 1 meter, screen backlight will be ON.

3 Web Function

3.1 Overview

The web-based interface is shown in Figure 3- 1.

Web function supports IHX-C1201 and IHX-C1202B. Here makes IHX-C1202B an example:

Figure 3- 1

Please refer to the following sheet for detailed information.

SN	Name	Function
1	System Settings	You can set IHX-C1202B device parameter and network info.
2	Info Search	You can search IHX-C1202B call history.
3	Status Statistics	You can perform statistics of IHD status under IHX-C1202B.
4	Logout	You can control reboot of IHX-C1202B and shutdown of WEB server.

3.2 Basic Functions

3.2.1 Login Interface

Input IHX IP address in address field of IE Explorer as in Figure 3- 2.



Figure 3- 2

You must input username and password in order to login WEB main interface. Default username: admin

Default password: admin.

After you login, you will see 4 major settings: system, info search, status statistics, and Logout.

3.2.2 System Settings

System settings includes: local, IHD management, networking, network and password change.

3.2.2.1 Local Setting

The following is the instruction for major settings:

1. Frame: For NTSC standard, please select 30 frame/s. For Pal standard, please select 25 frame/s.
 2. One-key clear: You may restore all settings on IHX to default after pressing this button and confirm. **Be careful!**
 3. Video format has two types of resolution:
 - D1: 704x576
 - WVGA: 800x480
- Please see Figure 3- 3.

The screenshot displays the 'IP VDP Door Station Web Server V1.0' interface. On the left is a dark sidebar with a menu under 'System Setting' including 'Local Setting' (highlighted), 'VTH Management', 'LAN Setting', 'Network Setting', 'Change Password', 'Info Search', 'Status Statistics', and 'Logout'. The main area has three tabs: 'Local Setting', 'A&C Management', and 'System Time'. The 'Local Setting' tab is active, showing a list of configuration parameters with input fields or dropdowns. At the bottom of this tab are four buttons: 'Default', 'Delete All', 'Refresh', and 'OK'.

Parameter	Value
Term No.	1
Section No.	1
Building No.	101
Building Unit No.	1
District Unit SN	101
Floor Total	30
Room Total	8
System Type	Tcp/IP
Device Type	Unit Door Station
Video Format	D1
Boot up Audio	N/A
Reboot Date	Tuesday
Frame Rate	25
Version Info	2012-11-08 V4.000.0.0

Figure 3- 3

3.2.2.2 Access Control Management

Click on *local setting* and then click on *access control management*. You may change password here and please keep in mind that the initial password is 123456. To unlock door, please input #123456#. You also can set unlock interval and duration.

FTP address: FTP address is used to store snapshot taken at IHX when someone swipes card. User can login FTP to view those photos.

IP VDP Door Station Web Server V1.0

▼ **System Setting**

- > **Local Setting**
- > VTH Management
- > LAN Setting
- > Network Setting
- > Change Password
- ▶ Info Search
- ▶ Status Statistics
- ▶ Logout

Local Setting | A&C Management | System Time

Old Password:

New Password:

Confirm:

Unlock Responding Interval:

Unlock Period:

Check Door Sensor Signal Before Lock: ☐

FTP IP:

FTP Port:

FTP User:

FTP Password:

Default Refresh OK

Figure 3- 4

3.2.2.3 System Time

Click on *local setting* and then click on *system time*. You may set time in the following interface as in Figure 3- 5. You may also synchronize system time with your local PC.

IP VDP Door Station Web Server V1.0

▼ **System Setting**

- > Local Setting
- > VTH Management
- > LAN Setting
- > Network Setting
- > Change Password
- ▶ Info Search
- ▶ Status Statistics
- ▶ Logout

Local Setting | A&C Management | **System Time**

Date Format:

Time Format:

Time Zone:

System Time:

Refresh OK Sync PC

Figure 3- 5

3.2.3 IHD Management

IHD management mainly includes add digital/analog IHD, delete IHD and edit IHD user.

3.2.3.1 Digital IHD Management

In digital IHD management interface, check box *display resident info enable* to display successfully configured IHD info as shown in Figure 3- 6. Click on *add* button at the left lower corner, and input user name and IHD number. Please be notified that only IHD number is required for operation as default.

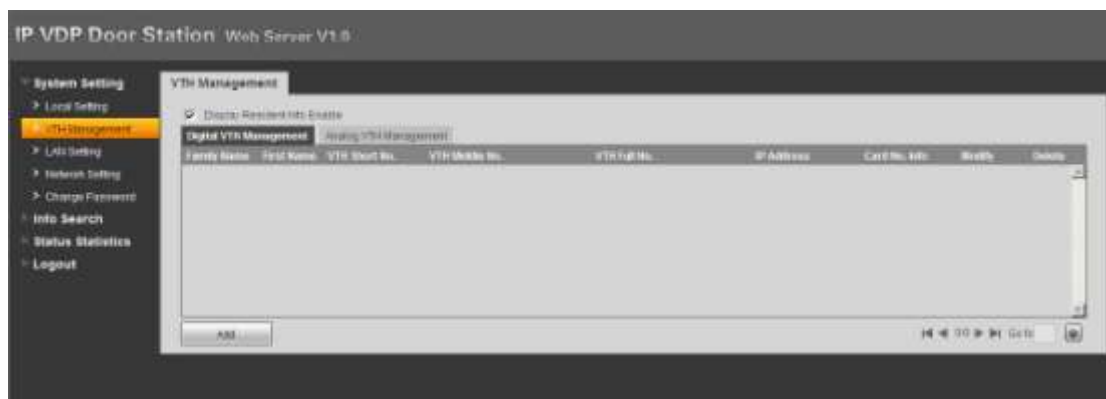


Figure 3- 6

3.2.3.2 Analog IHD Management

In analog IHD management interface, check box *display resident info enable* to display successfully configured IHD info as shown in Figure 3- 7. Click on *add* button at the left lower corner, and input IHD number, distributor address and distributor port. IHD number is the room number where analog IHD locates; distributor address is its dialup IP which ranges from 1 to 99. It originally could be manually adjusted, but now it has been burned into program. Port is the corresponding port number in distributor which normally is either 1~4 or 1~8, depending on number of distributor channel. For example, room number is 1502, distributor address is 15, and port NO. is 2.

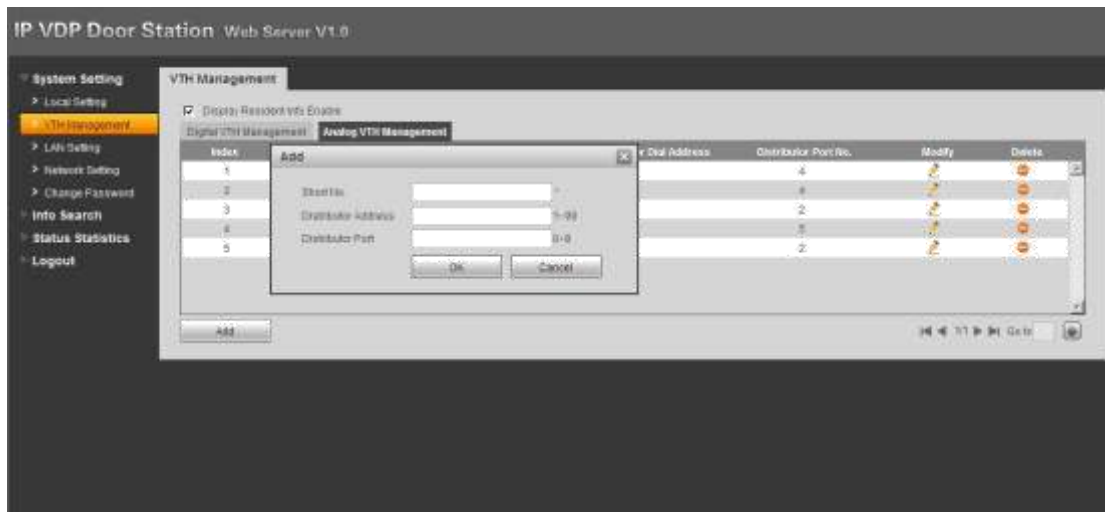


Figure 3- 7

LAN Setting

Default setting is enough if you just want networking between IHX and IHD, but if you want to set MGT center, you need to change default settings to be identical with MGT center info. You also need to check box *register to the MGT center*.

If you successfully set MGT center, you may call MGT center by pressing *call MGT center* button at lower left corner on IHX. Please see Figure 3- 8.

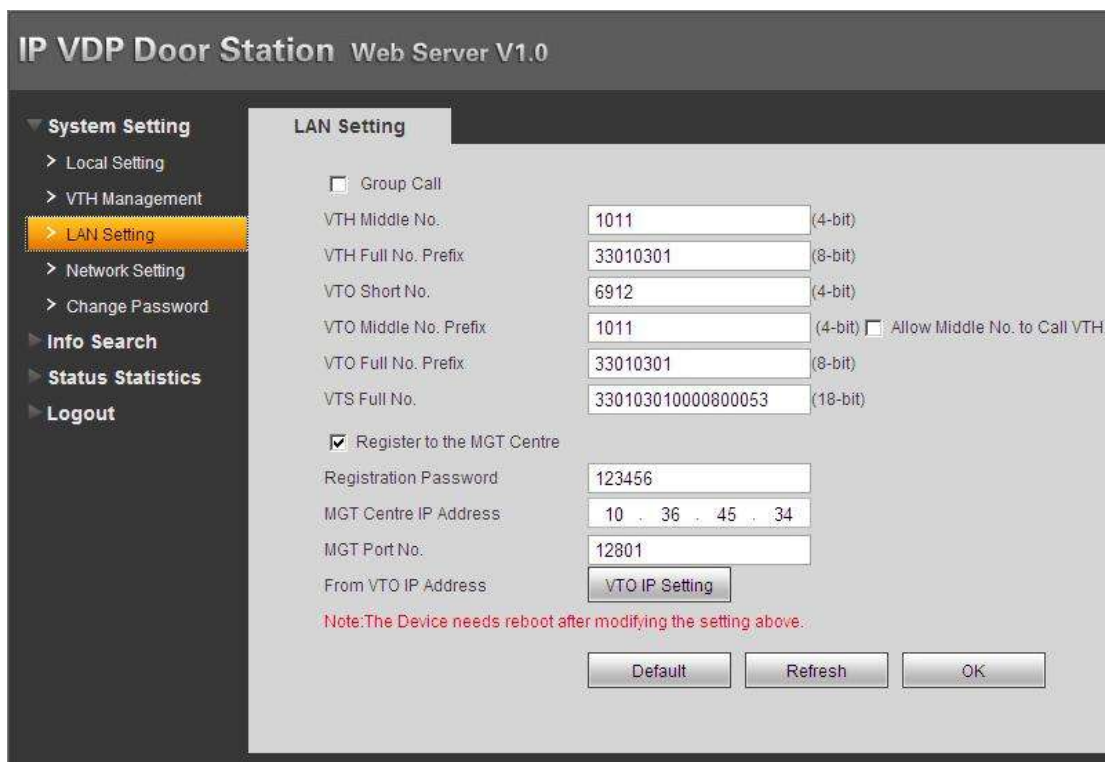


Figure 3- 8

Network Setting

In network setup interface, you can set IP parameter, IP address, subnet mask and default gateway of IHX as shown in Figure 3- 9. After you change IP address, WEB interface will reboot and you will see a new IP address interface.

The screenshot shows the 'IP VDP Door Station Web Server V1.0' interface. On the left is a sidebar menu under 'System Setting' with options: Local Setting, VTH Management, LAN Setting, Network Setting (highlighted), Change Password, Info Search, Status Statistics, and Logout. The main area is titled 'Network Setting' and contains four input fields: IP Address (10.45.1.37), Subnet Mask (255.255.0.0), Default Gateway (10.45.0.1), and MAC Address (90-02-a9-94-44-51). Below these fields are three buttons: Default, Refresh, and OK.

Figure 3- 9

Change Password

In password change interface, you can change WEB login password of IHX. You must input old password, new password and confirm new password. Click on OK button to save as shown in Figure 3- 10.

The screenshot shows the 'IP VDP Door Station Web Server V1.0' interface. The sidebar menu is the same as in Figure 3-9, but 'Change Password' is highlighted. The main area is titled 'Change Password' and contains three input fields: Old Password, New Password, and Confirm. Below these fields are two buttons: OK and Cancel.

Figure 3- 10

Info Search

Click on *info search* and then click on *card history*. Here you may search local call histories and device can store up to 1124 records. Please see Figure 3- 11



Figure 3- 13

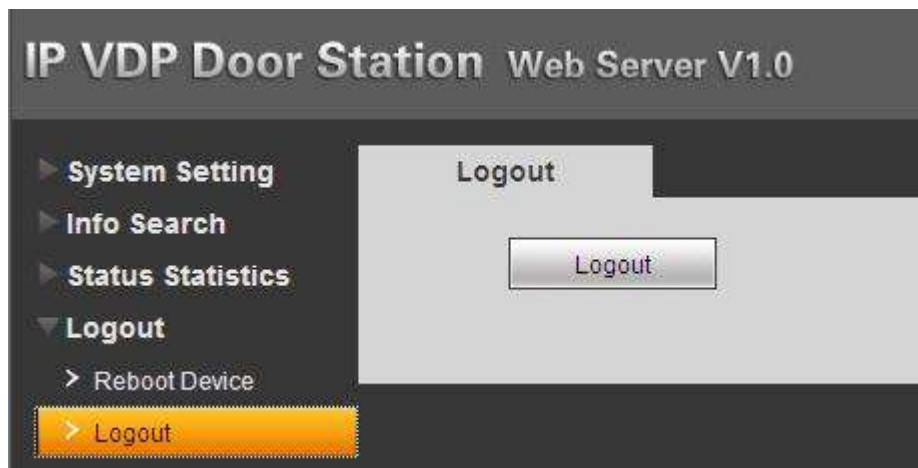


Figure 3- 14

4 Specifications

Model	IHX-C1201	IHX-C1202B
OS		
Main Processor	Embedded micro processor	
OS	Embedded LINUX OS	
Video		
Video Compression Standard	H.264	
Input/Approaching Induction	1.3 megapixel CMOS camera	
Back Light	Support	
Auto Light Compensation	Support	
Audio		
Input	Microphone	

Output	Built-in speaker	
Bidirectional Talk	Support dual-way bidirectional talk	
Display		
LCD Dimensions	3-inch STN screen	3-inch STN screen
Resolution	128*64	128*64
Operation Mode		
Input	Digital keyboard	Touch keyboard
Card	Built-in IC card induction reader	
Approaching Induction		
Body Approaching	Not applicable	1 meter
Alarm		
Vandal proof	Support	
Access Control		
NO Output	Support	
NC Output	Support	
Door on/off Button	Support	
Door Status Detect	Support	
Network		
Ethernet	10M/100Mbps Self-adaptive	
Network Protocol	TCP/IP	
Storage		
Memory	128MB	
Others		
Power	DC 10~15V	
Power Consumption	Standby≤1W ;work≤10W	
Working Environments	-10℃~-+60℃	-40℃~-+60℃
	10~95%RH	
Water Proof	IHx1212B-X Water proof level:IP65	
Dimensions	376mm*151mm*60mm (L*W*H)	
Weight	1.6kg	

5 Device Port

The device rear panels are shown as in 5 - 1。 and Figure 5 - 2.

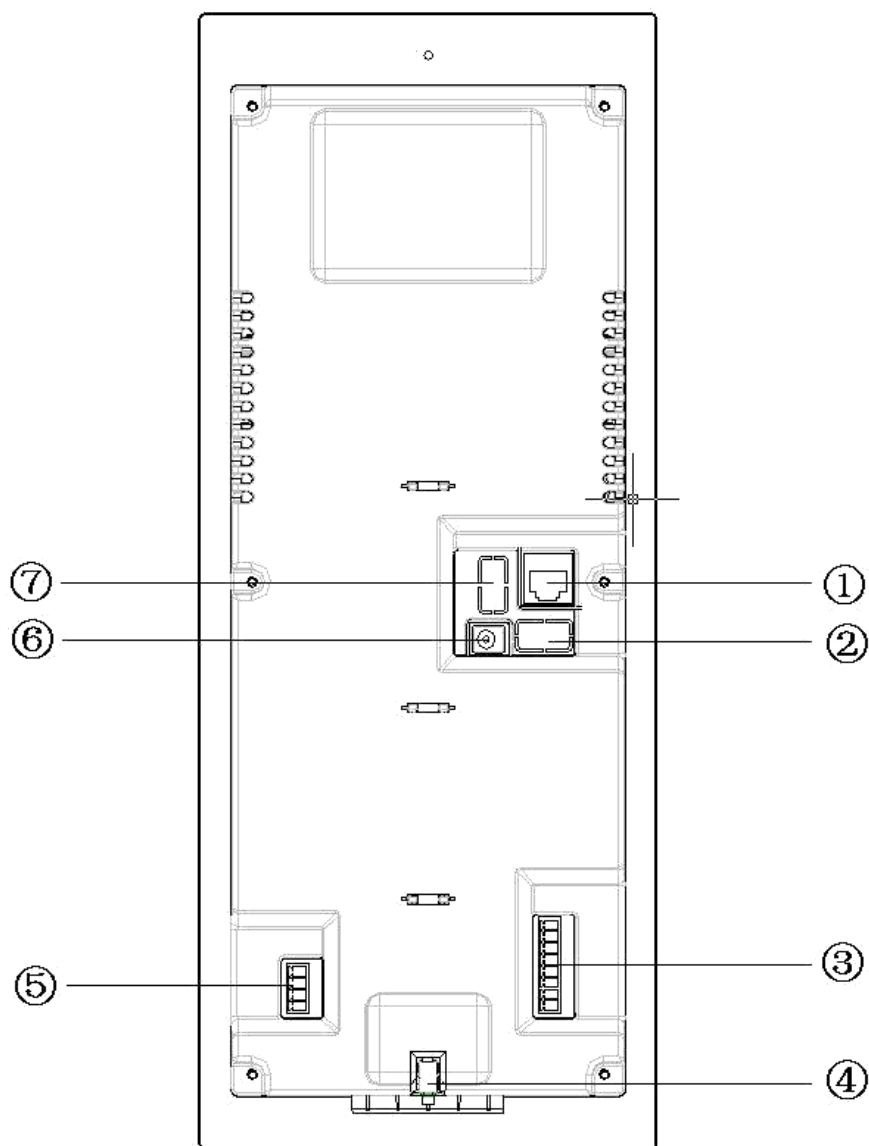
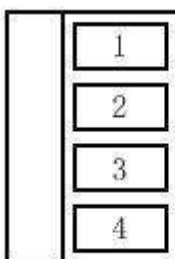
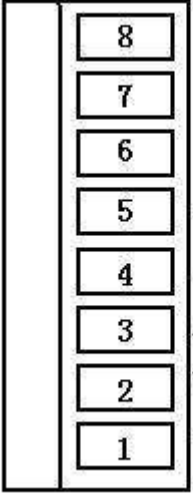
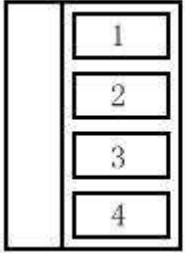
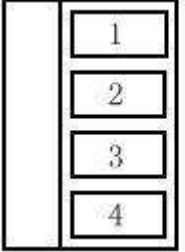


Figure 5- 1 IHX-C1201 rear structure

Please refer to the following sheet for detailed information.

SN	Port Name	Function
1	Network Port	Connect to the RJ45 port.
2	Access Control Input Port	Connect to signal from the door sensor, door on/off signal. 
3	Analog Signal Port (IHX-C1201 only)	Connect to the analog signal of the distributor.

		
4	Vandal Proof Alarm Button	It can generate an alarm when there is a vandal operation.
5	RS422 Port (Reserved)	Connect to RS422 or RS485 Communication Device. 
6	Power Port	Connect to 12V DC.
7	Access Control Output Port	Control NO/NC of door lock. 

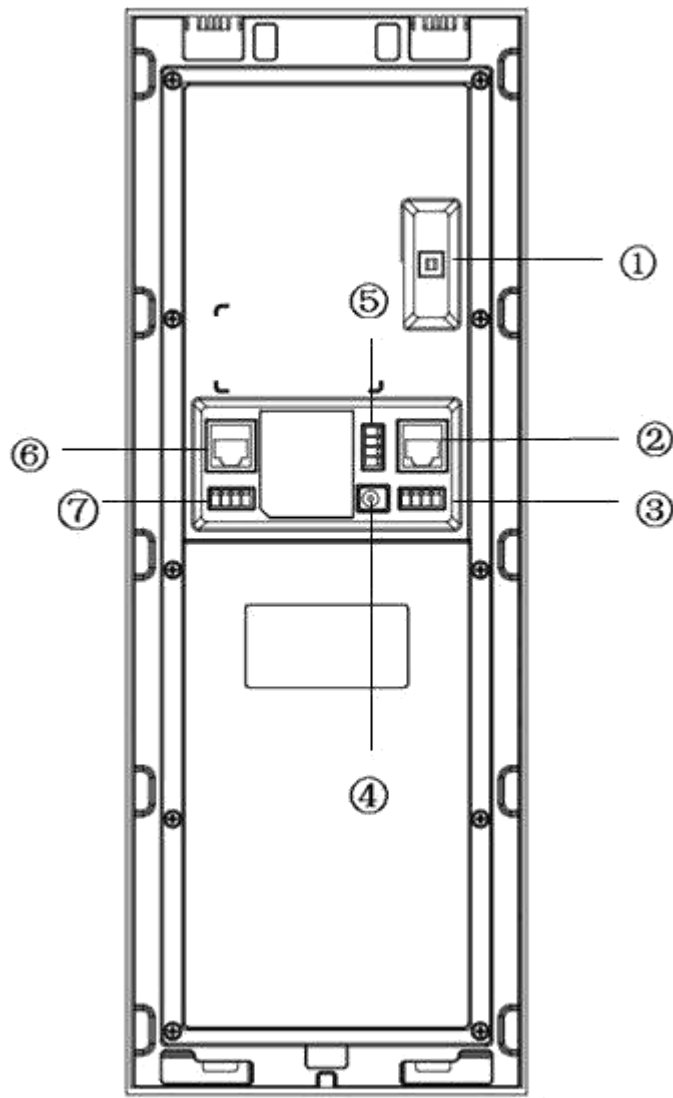
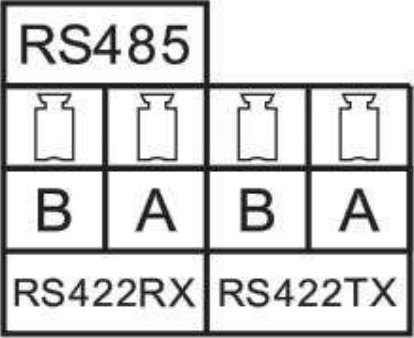
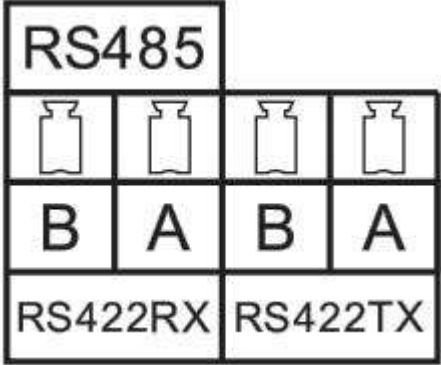


Figure 5- 2 IHX-C1202B rear structure

Please refer to the following sheet for detailed information.

SN	Port Name	Function
1	Vandal Proof Alarm Button	It can generate an alarm when there is a vandal operation.
2	Network Port	Connect to the RJ45 port.
3	Access Control Input Port	Connect to signal from the door sensor, door on/off signal.

		
4	Power Port	Connect to 12V DC power.
5	Access Control Output Port	Open or close the NO/NC lock. 
6	Analog Signal Port	Connect to the analog signal of the distributor.
7	RS485 Port	Connect to RS422 or RS484 communication device. 

6 Installation

Please refer to the following sheet for detailed installation information. Please see Figure 6- 1 and Figure 6- 2 IHX-C1202B installation guide.

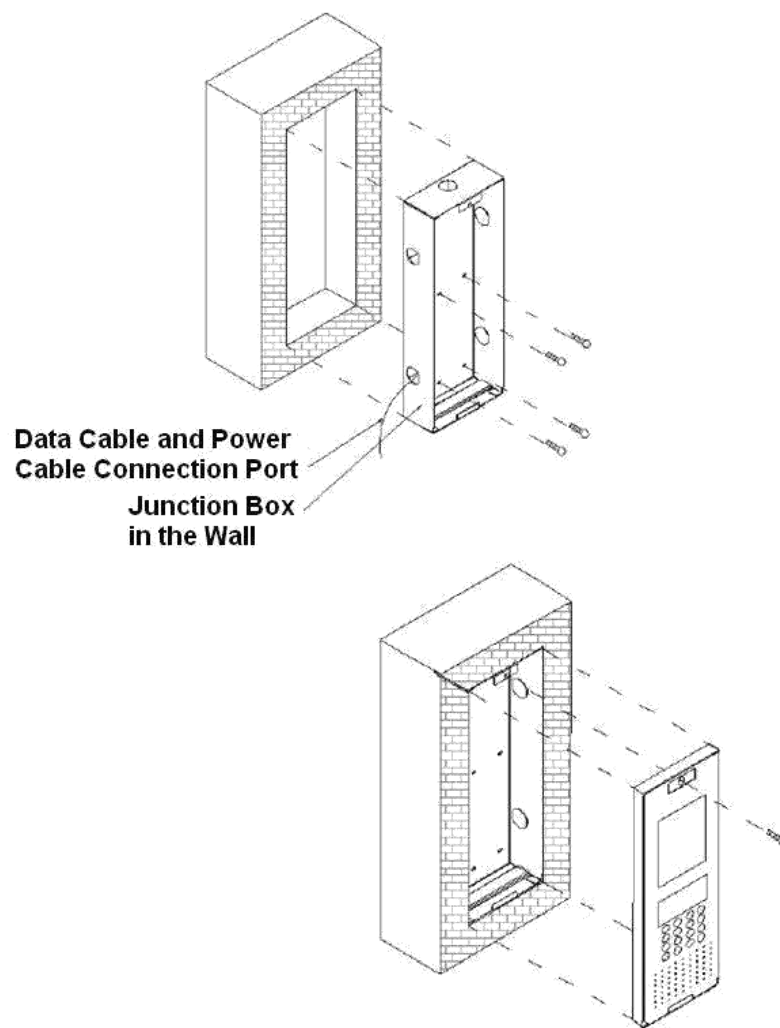


Figure 6- 1 IHX-C1201 installation guide

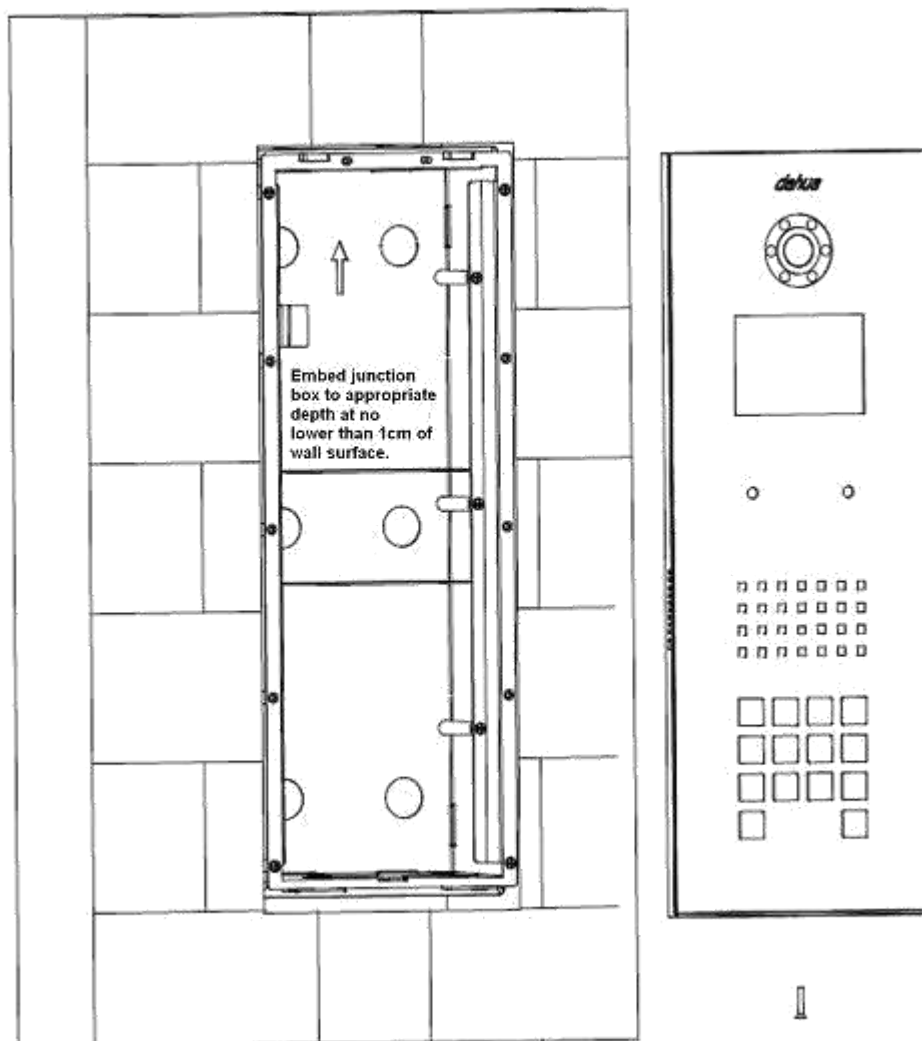


Figure 6- 2 IHX-C1202B installation guide

7 FAQ

Q: I cannot boot up the device, or I can see the LCD is black.

A: Please check your power cable connection. Please reboot it again.

Q: I cannot call.

A: Please check your network connection.

Q: I cannot reach the person I want to contact. What shall I do?

A: It may be the network error. Please check the network cable connection between the host and the extension device.

Q: The number I dial does not exist.

A: Please make sure you have dialed the proper number.

Q: System says the IC card number is invalid when I swipe the card. What shall I do?

A: The card status is abnormal. Please contact your administrator for help.

Q: System says the IC card number is wrong. What shall I do?

A: It means current card does not have the authority. Please contact your administrator for help.

Q: I have some problems, I am not so sure or I can not fix.

A: Please contact your local retailer for help.

Note:

This manual is for reference only. Slight difference may be found in user interface.

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If there is any uncertainty or controversy, please refer to the final explanation of us.
Please visit our website or contact your local service engineer for more information.