Yealink

Yealink VC Deployment and User Manual for Crestron 3-Series Control Systems

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About This Guide

The Yealink video conferencing systems provide an API interface for the Crestron® 3-Series control systems. The interface allows you to control the Yealink video conferencing system through the touch panels installed in the control device.

When you successfully deploy environment and configure the Crestron® 3-Series control systems, the Yealink video conferencing systems and the control devices, you can remotely manage certain features of your video conferencing system via the control device.

Crestron 3-Series Control Systems

The following table lists the products included in the Crestron® 3-Series control systems.

AV3	3-Series Control System®
CP3	3-Series Control System®
CP3N	3-Series Control System®
MC3	3-Series Control System® w/infiNET EX®
PRO3	3-Series Control System®
RMC3	3-Series® Room Media Controller

In This Guide

Topics provided in this guide include:

- Chapter 1 Deployment Environment
- Chapter 2 Debugging Process
- Chapter 3 Yealink VCS Panel Pages Overview
- Chapter 4 Frequently Asked Questions

Deployment Environment

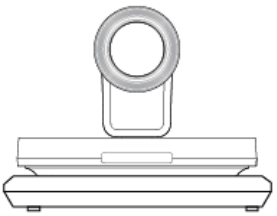
This chapter introduces the deployment environment, which instructs you to connect control and accessibility equipment. The Yealink video conferencing systems support TCP/IP connection and RS-232 connection. Note that if you connect the Crestron® 3-Series control system to the Yealink video conferencing system through TCP/IP connection, the Crestron® 3-Series control system, the Yealink video conferencing system and the control device should be in the same network segment. Topics include:

- Hardware Deployment
- Software Programs

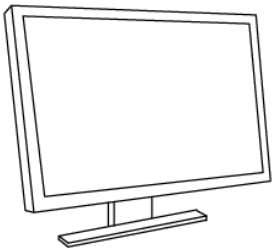
Hardware Deployment

Hardware Devices

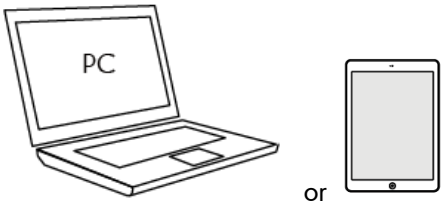
- **Yealink video conferencing systems (built-in API interface, firmware version X.21.0.10 or later)**



- **A display device**

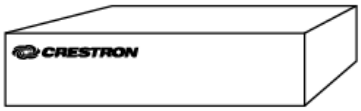


- **The control devices (PC, iPad, etc.)**



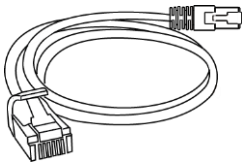
(Taking a PC and an iPad for example)

- **The Crestron® 3-Series control systems**

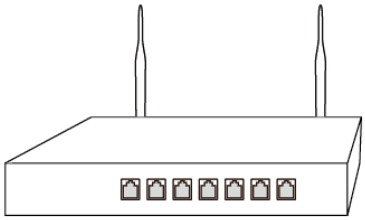


(Taking Crestron® MC3 for example)

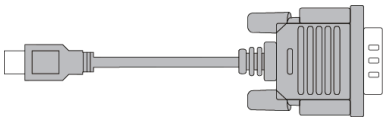
- **Ethernet cable**



- **A router (applying to TCP/IP connection)**



- **A USB to RS-232 cable (applying to RS-232 connection)**

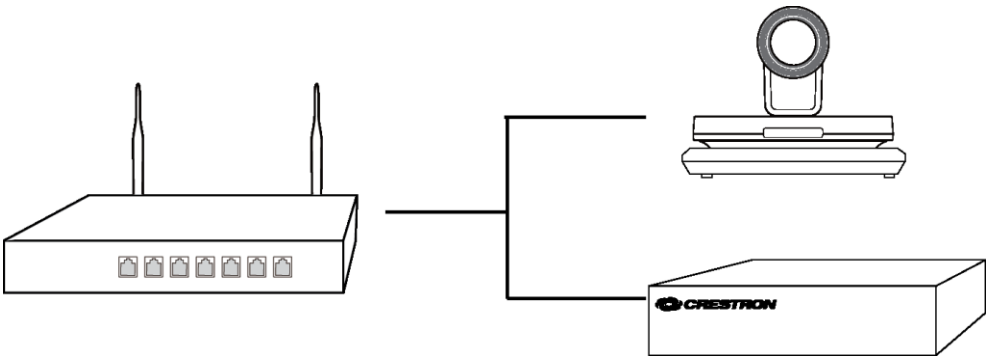


Hardware Connection

The Yealink video conferencing systems support TCP/IP connection and RS-232 connection.

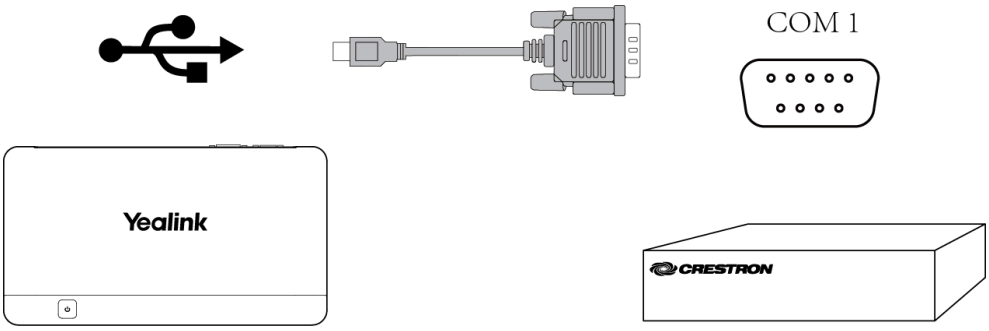
TCP/IP Connection

TCP/IP connection is displayed as below:



RS-232 Connection

RS-232 connection is displayed as below:

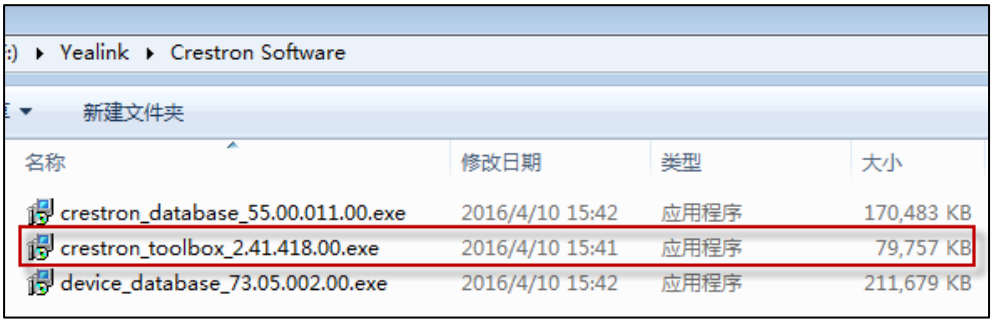


Software Programs

The software programs contain Crestron software, Crestron configuration programs and the control device configuration programs.

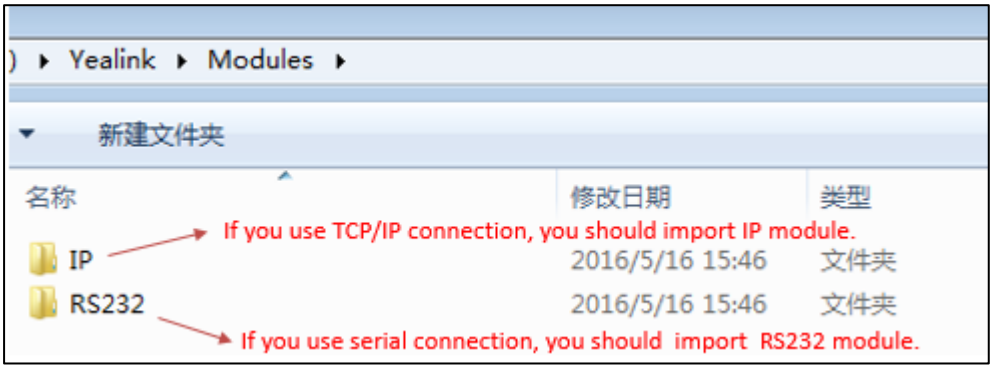
Crestron Software

Crestron software mainly refers to Crestron Toolbox. It is used to import the corresponding configuration program into the Crestron® 3-Series control system and the control device.



Crestron Configuration Programs

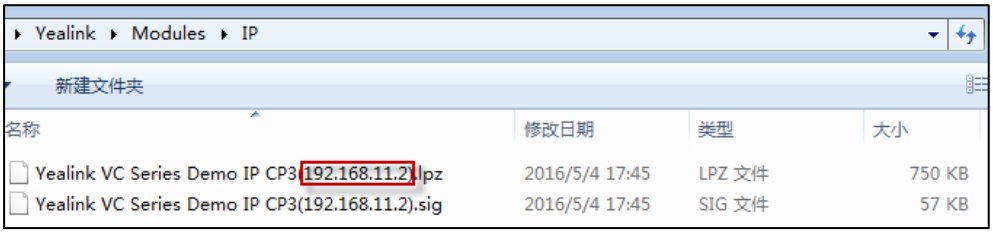
Crestron provides two kinds of modules as the configuration programs. The modules contain a TCP/IP module and a RS-232 module. The selection of modules is depending on connection methods you use.



Only one of these connection methods can be used at once.

TCP/IP Module

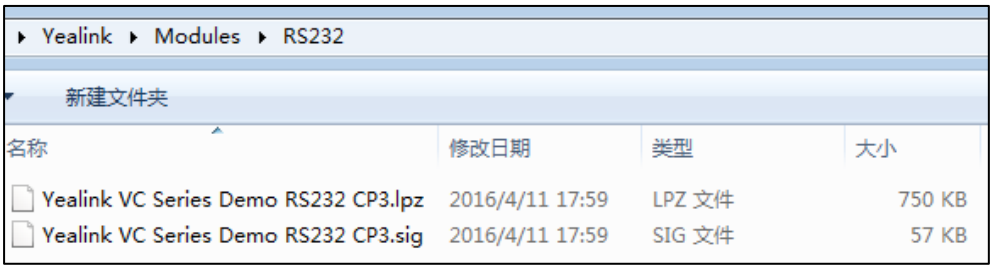
If you connect the Crestron® 3-Series control system to Yealink video conferencing system through TCP/IP connection, you should use TCP/IP module. And the IP address of Yealink video conferencing system should be written in the configuration file.



Only an .lpz file requires importing into the Crestron® 3-Series control system.

RS-232 Module

If you connect the Crestron® 3-Series control system to Yealink video conferencing system through the RS-232 connection, you should use RS-232 module and connect the RS-232 serial port in Crestron® 3-Series control system to the USB port in your video conferencing system codec through a USB to RS-232 cable. Only an .lpz file requires importing into Crestron® 3-Series control system.



RS-232 serial port in Crestron® MC3:

Control Device Configuration Programs

Control device configuration programs mainly refer to touch panels' configuration programs. The touch panels are installed in the control device.

The following table lists the configuration programs required in a PC and an iPad:

PC	Crestron XPanel application and .c3p file. For more information, please refer to Installing Touch Panels in a PC on page 13.
iPad	Crestron for iPad application and .xml file.

	For more information, please refer to Installing Touch Panels in an iPad on page 15.

For more information about the software programs required in other control devices, please contact Crestron.

Debugging Process

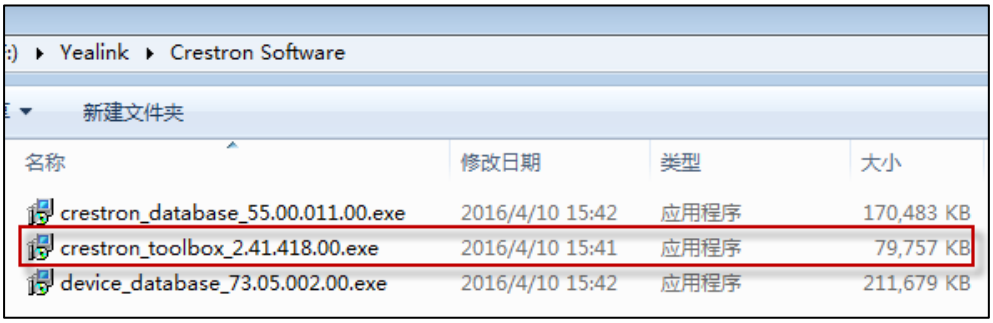
This chapter provides the debugging process. The TCP/IP connection is introduced for example. Topics include:

- Installing Crestron Toolbox
- Importing Crestron Modules
- Installing Touch Panels

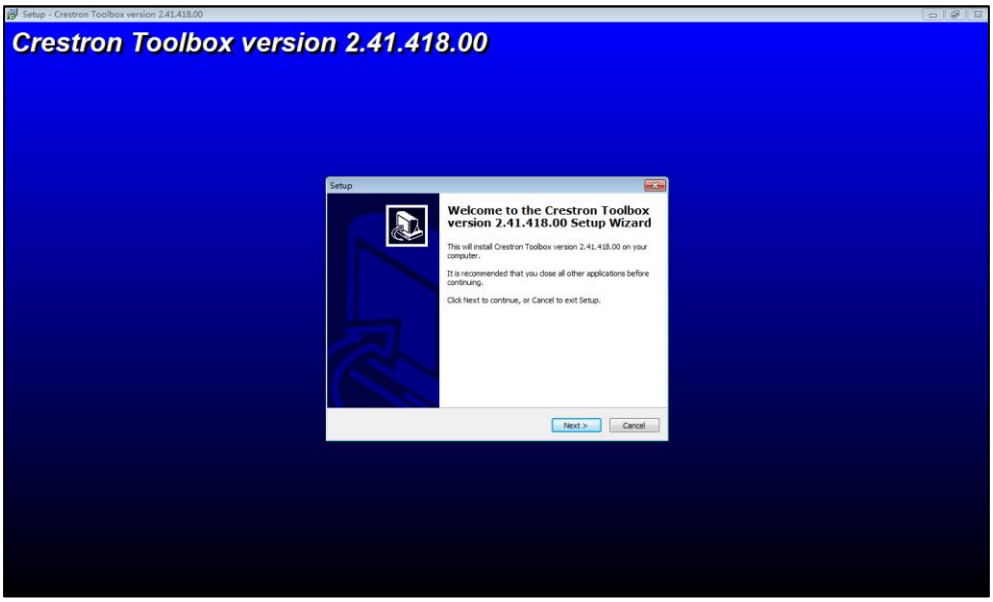
Installing Crestron Toolbox

To install Crestron toolbox in a PC:

1. Double-click Crestron toolbox application.



The Crestron Toolbox Setup Wizard is displayed as below:



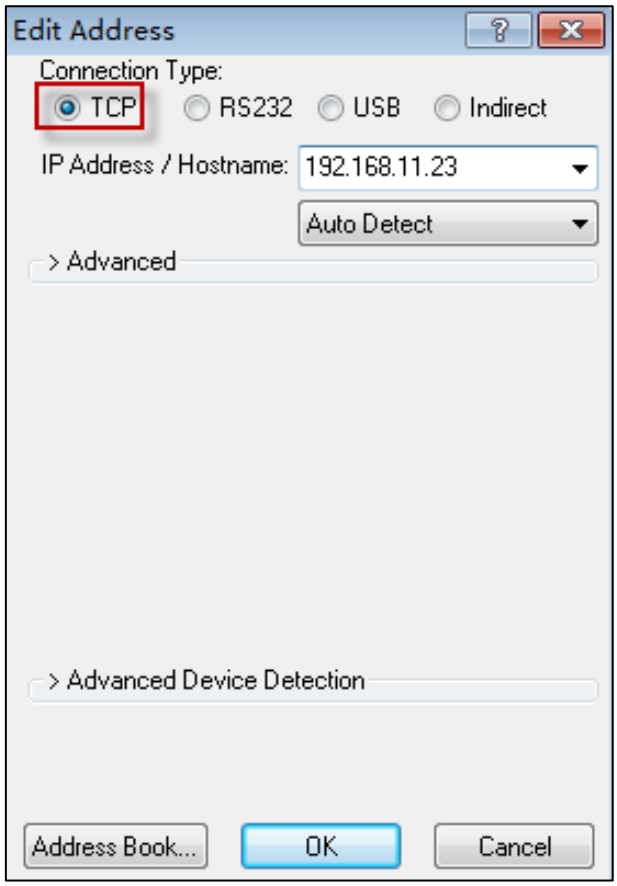
2. Follows the default installation process.

Importing Crestron Modules

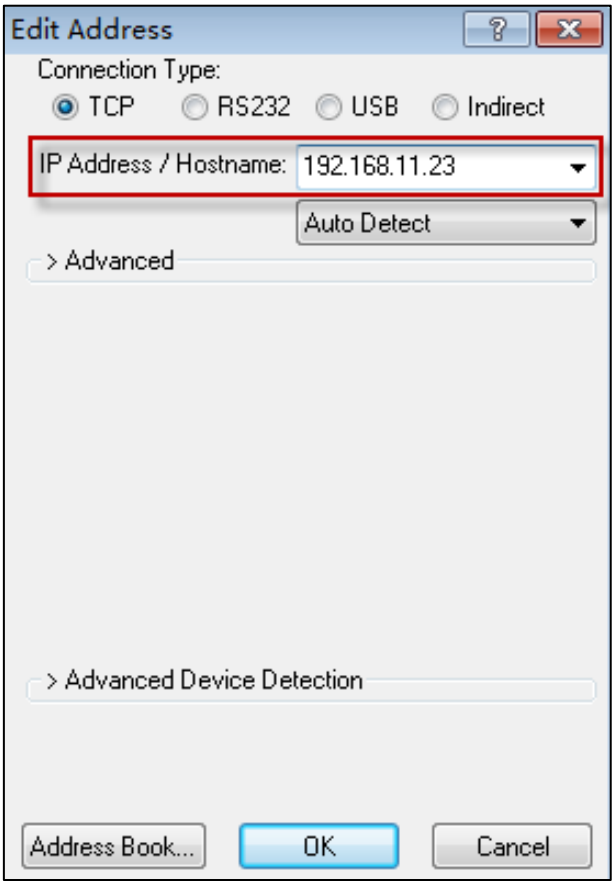
Importing a TCP/IP module into the Crestron® 3-Series control system is introduced for an example.

To import modules by Crestron toolbox:

1. Double-click Crestron toolbox application icon .
2. Click on **View->System Info**.
3. Click .
4. Mark the radio box of **TCP**.

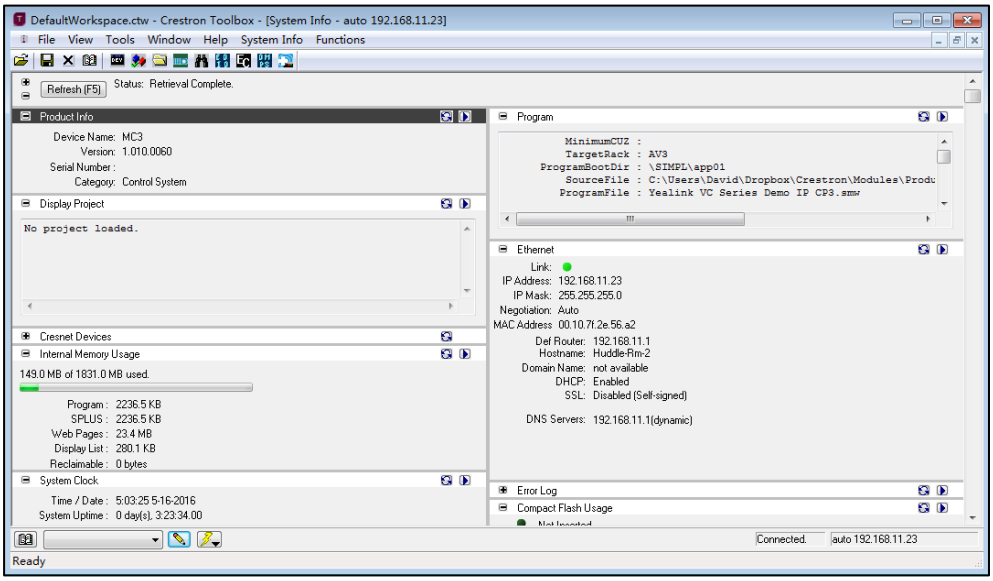


5. Enter the IP address of the Crestron® 3-Series control system in **IP Address/Hostname** field.

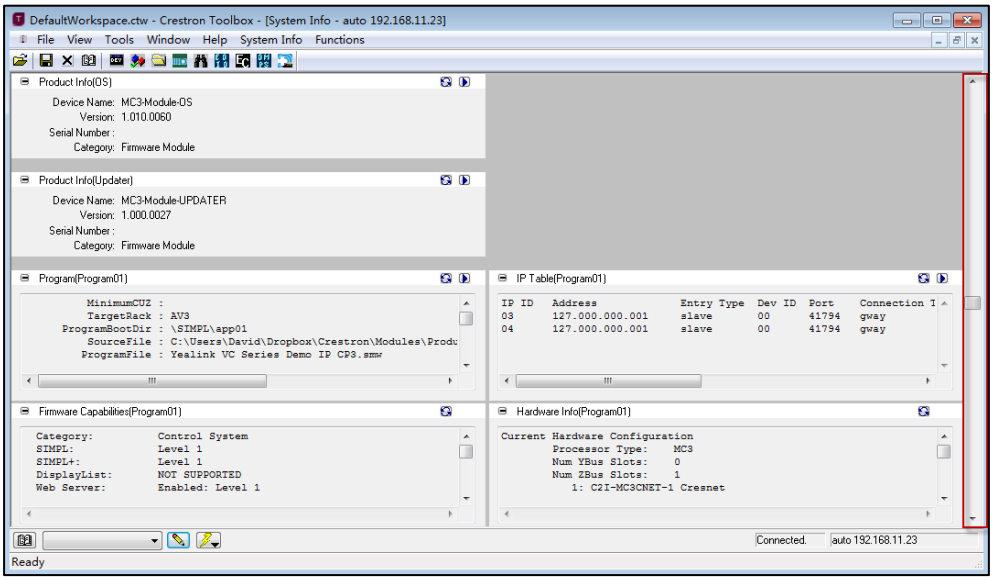


6. Click **OK**.

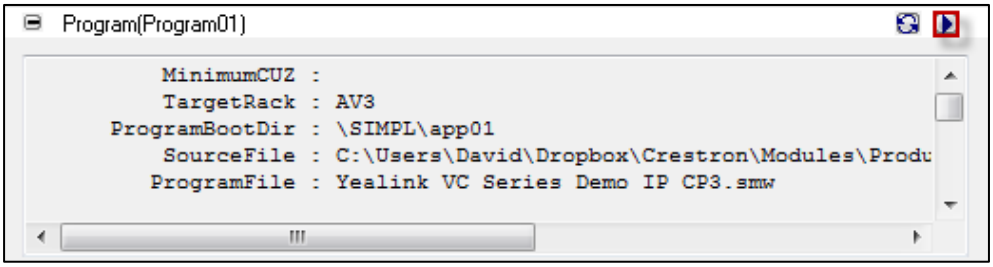
   If the Crestron toolbox connects to the Crestron® 3-Series control system successfully, the page will be shown as below:



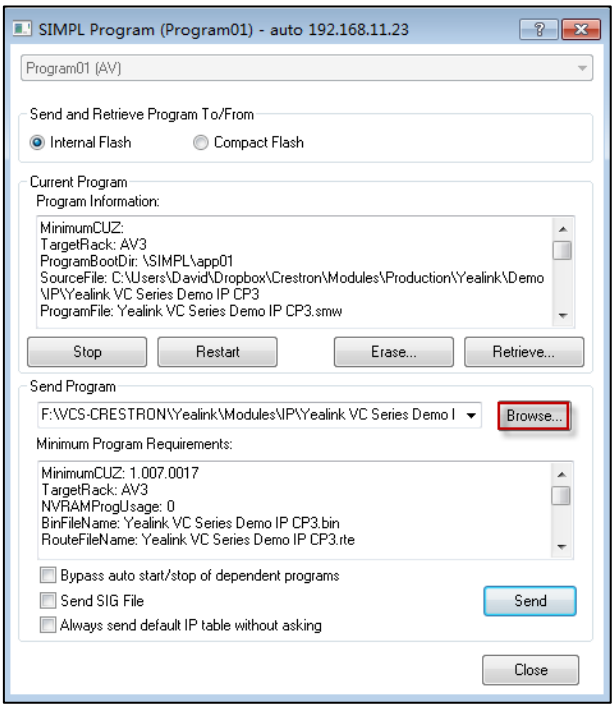
7. Drag the vertical scroll bar to the middle position.



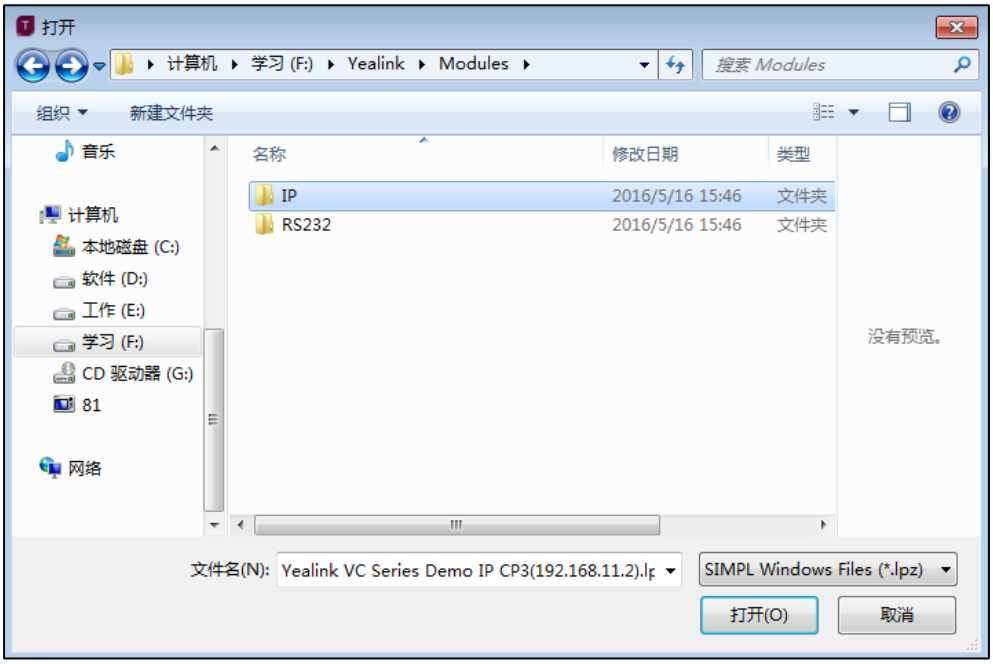
8. Click .



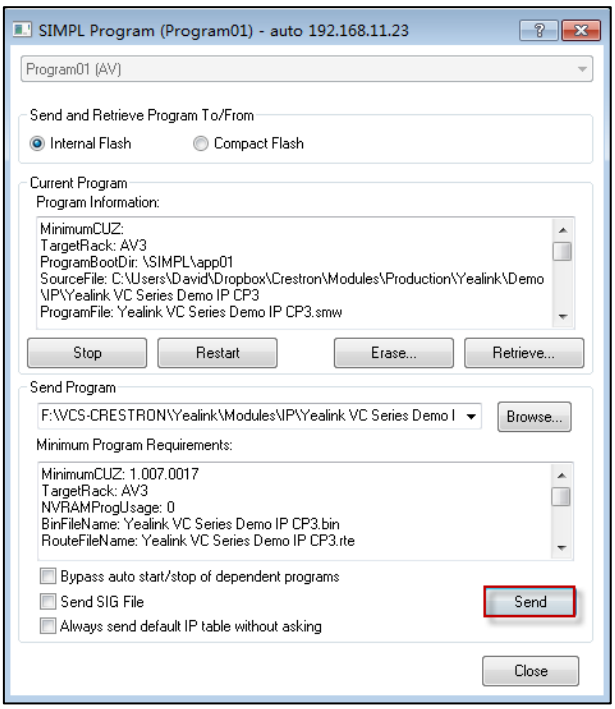
9. Click **Browse....**



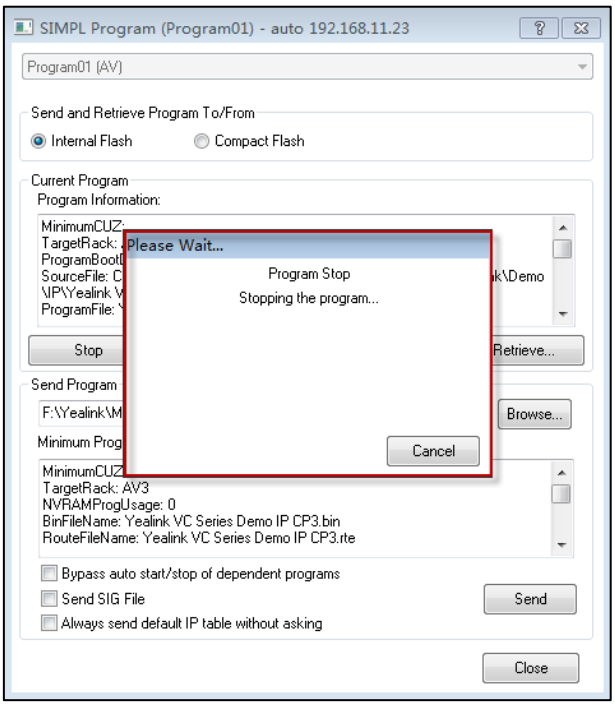
10. According to the TCP/IP connection method, select an .lpz file.



11. Click **Send**.



Please wait a few minutes. After the dialog box disappears, the send process is finished.



Installing Touch Panels

You can remotely control the Yealink video conferencing system through the touch panels installed in the control device (PC, iPad, etc.).

This section introduces the following:

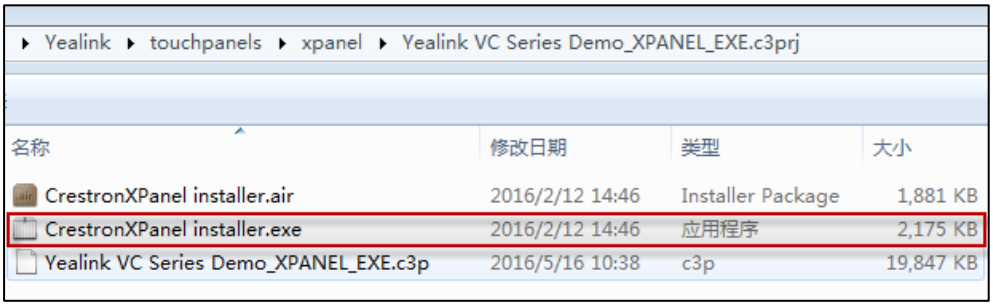
- Installing touch panels in a PC
- Installing touch panels in an iPad

If you open the touch panels in a PC and in an iPad synchronously, whatever operations you do on the touch panels in a PC or an iPad, their touch panels change synchronously.

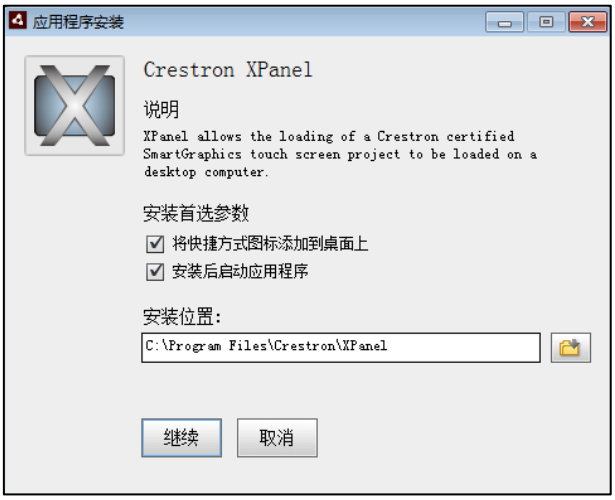
Installing Touch Panels in a PC

To install touch panels in a PC:

1. Double-click Crestron XPanel application.

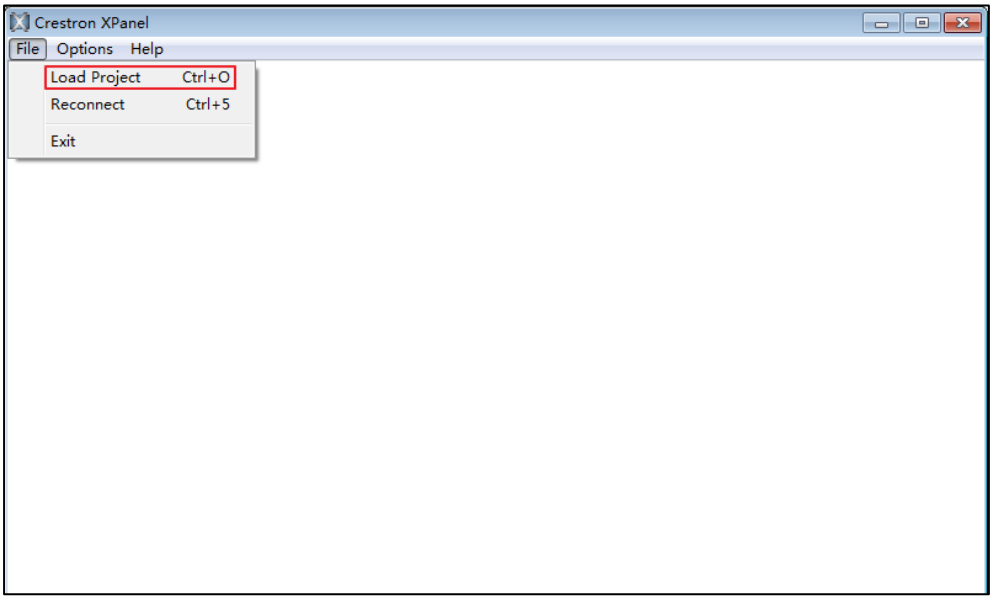


The Crestron XPanel Setup Wizard is displayed as below:

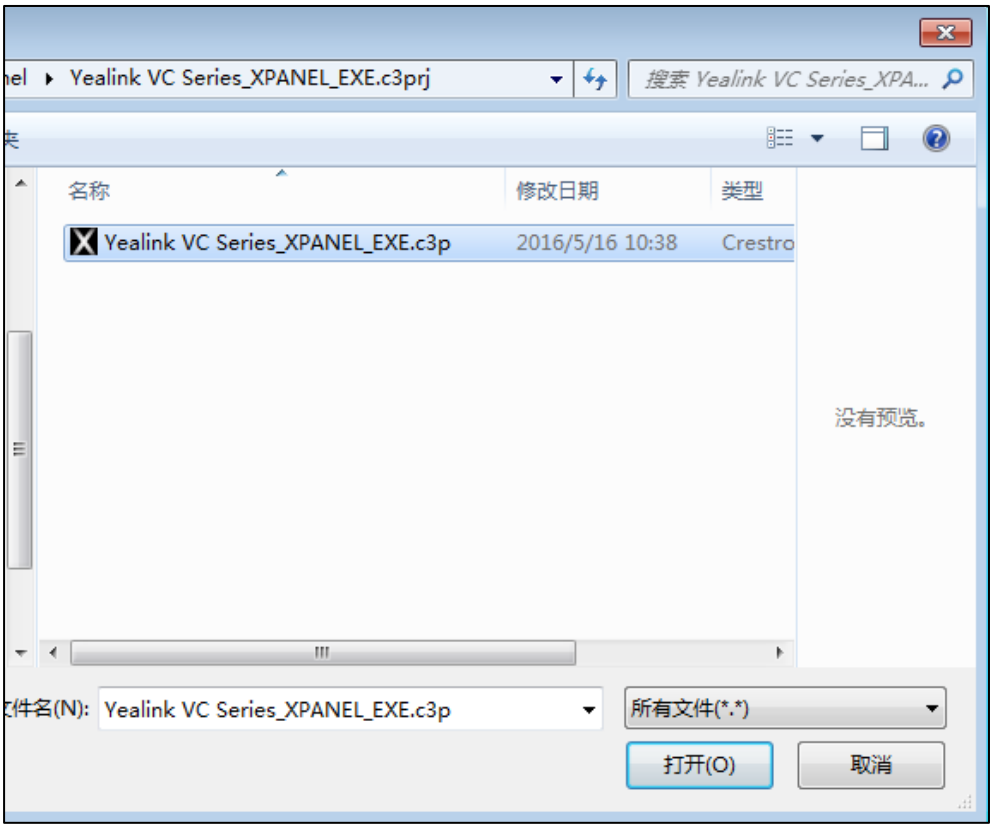


2. Follows the default installation process.
3. After installation, double-click Crestron XPanel icon .

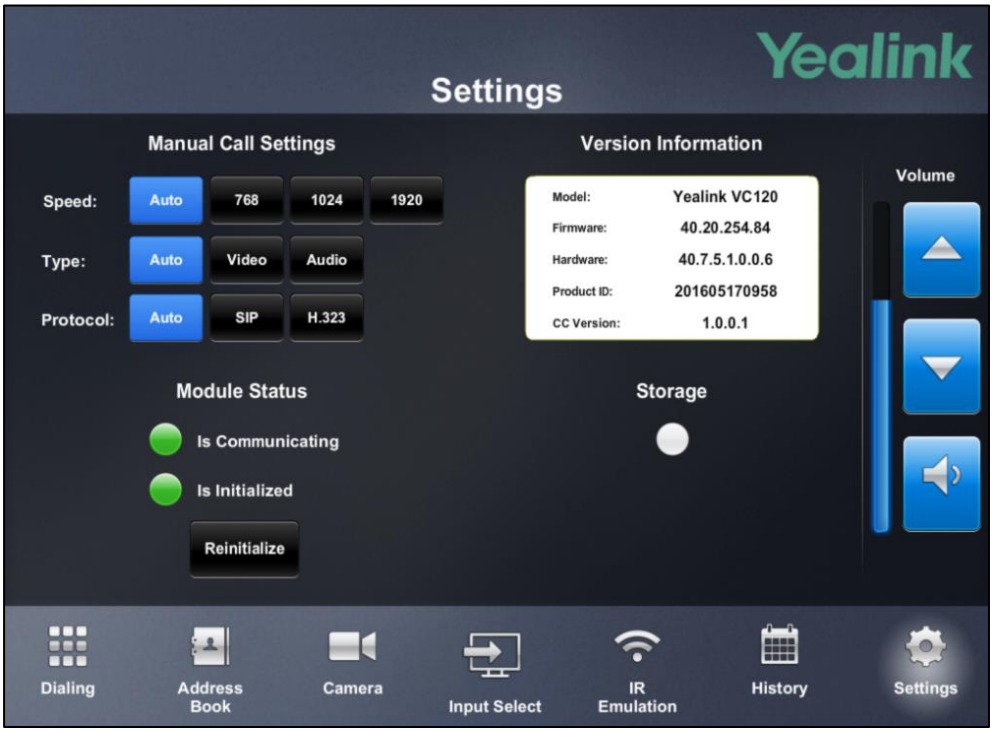
4. Click on **File->Load Project.**



5. Select .c3p file and click **Open**.



6. After you enter the touch panels in PC, touch **Settings** to navigate to the Settings page.



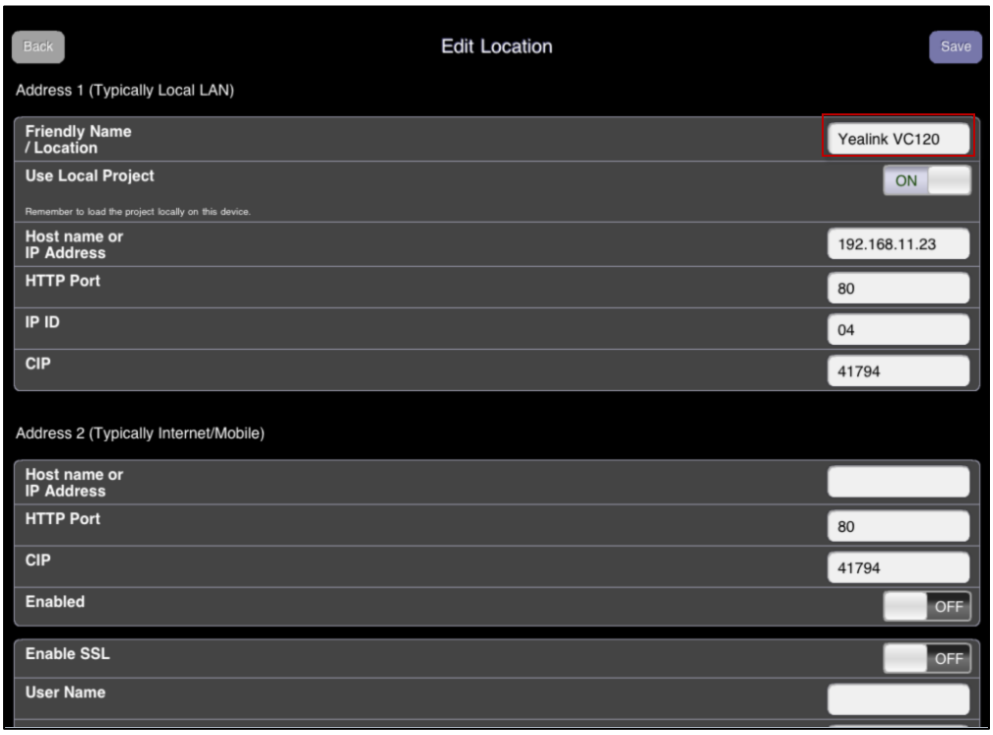
If You can view the version information normally, it means the touch panels in a PC are installed successfully.

Installing Touch Panels in an iPad

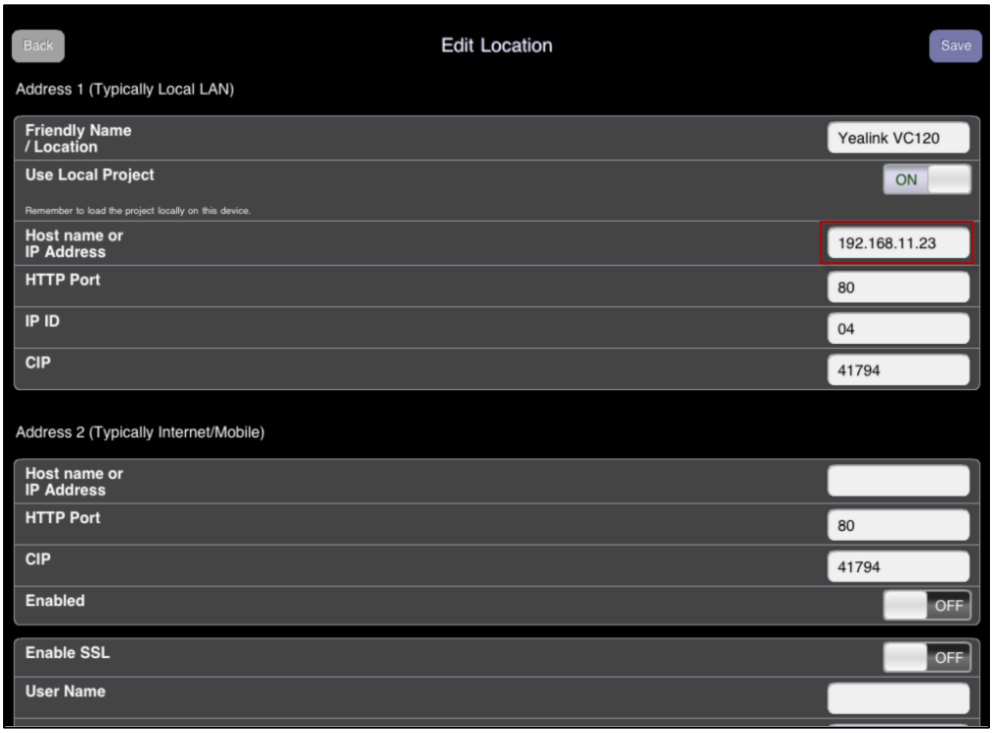
To install touch panels in an iPad:

1. From the Apple App Store, search for Crestron for iPad and download the application.
2. In an iPad, touch the icon to enter the Crestron for iPad.
3. Touch **UPGRADE** to buy the usage right of Crestron for iPad.
4. Touch .

5. You will enter the **Edit Location** screen, edit the name in the **Friendly Name/Location** filed.

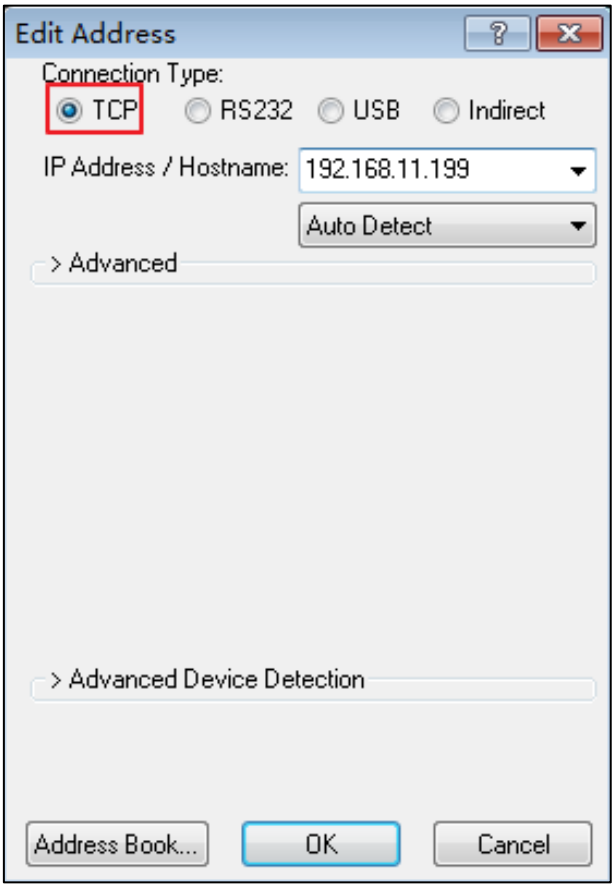


6. Swipe the **Use Local Project** switch right to **ON.**
7. Enter the IP address of the Crestron® 3-Series control system in **Hostname or IP Address** field.

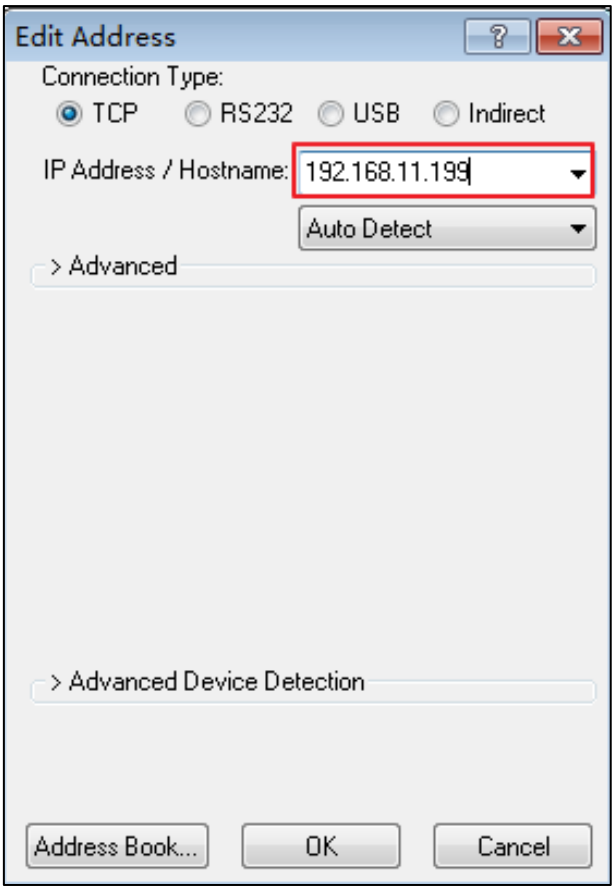


8. Enter **04** in **IP ID** filed.

9. Touch **Save**.
10. Double-click Crestron toolbox application icon in a PC.
11. Click on **View->System Info**.
12. Click .
13. Mark the radio box of **TCP**.

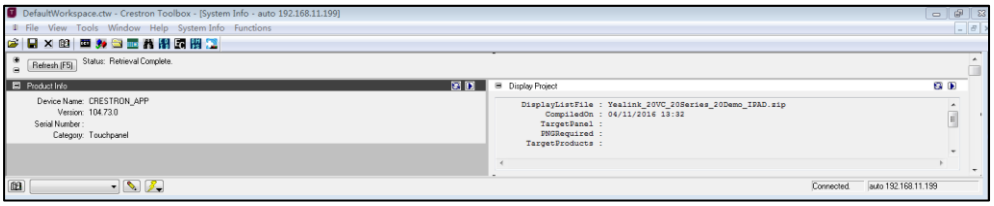


14. Enter the IP address of the iPad in **IP Address/Hostname** field.

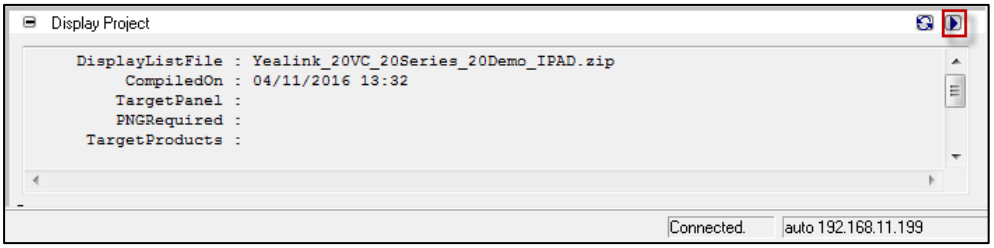


15. Click **OK**.

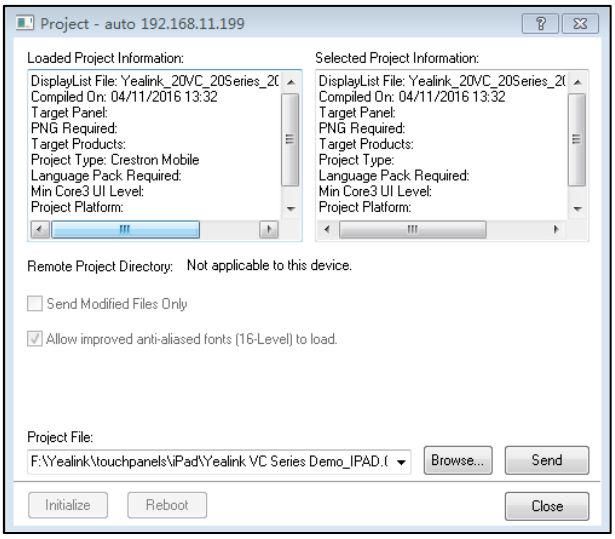
If the Crestron toolbox connects to iPad successfully, the page will be shown as below:



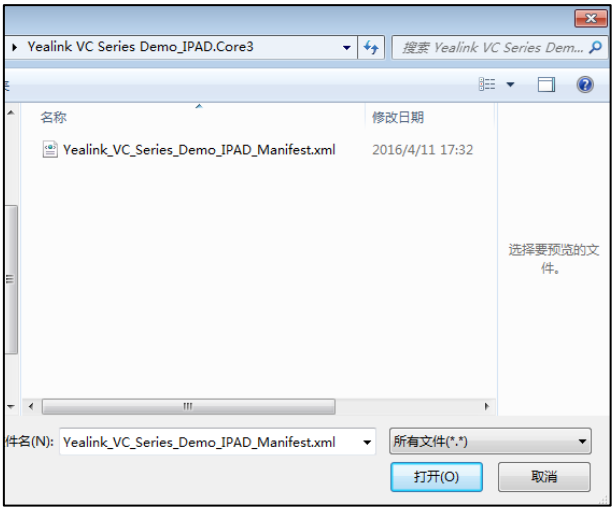
12. Click .



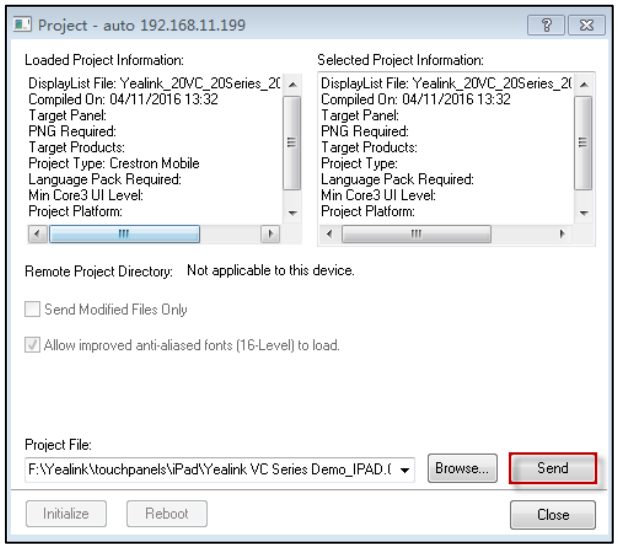
13. Click **Browse...**.



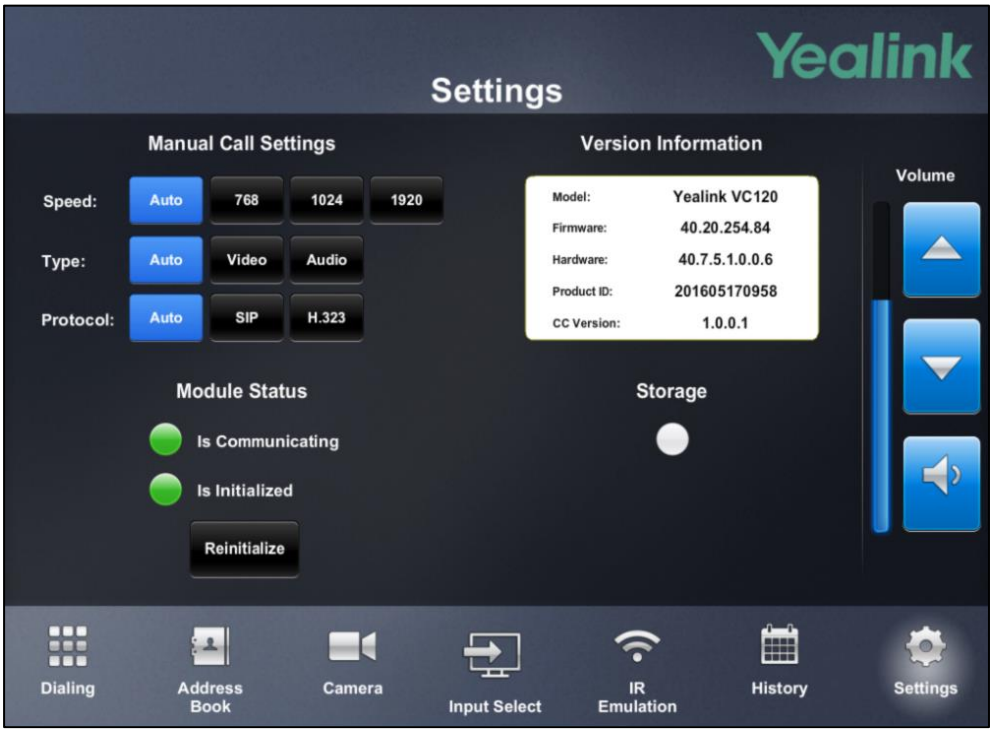
14. Select .xml file and click **Open**.



15. Click **Send**.



16. Touch the name you edit in the **Friendly Name/Location** filed in an iPad.
17. After you enter the touch panels, touch **Settings** to navigate to the Settings page.



If you can view the version information normally, it means the touch panels in an iPad are installed successfully.

Yealink VCS Panel Pages Overview

Every page in touch panels includes a menu for navigating to a different page. Many of the pages in touch panels also include buttons for increasing or decreasing the volume and muting the microphone. This chapter provides instructions for the Yealink VCS panel pages overview. The touch panels in an iPad are introduced for example. Topics include:

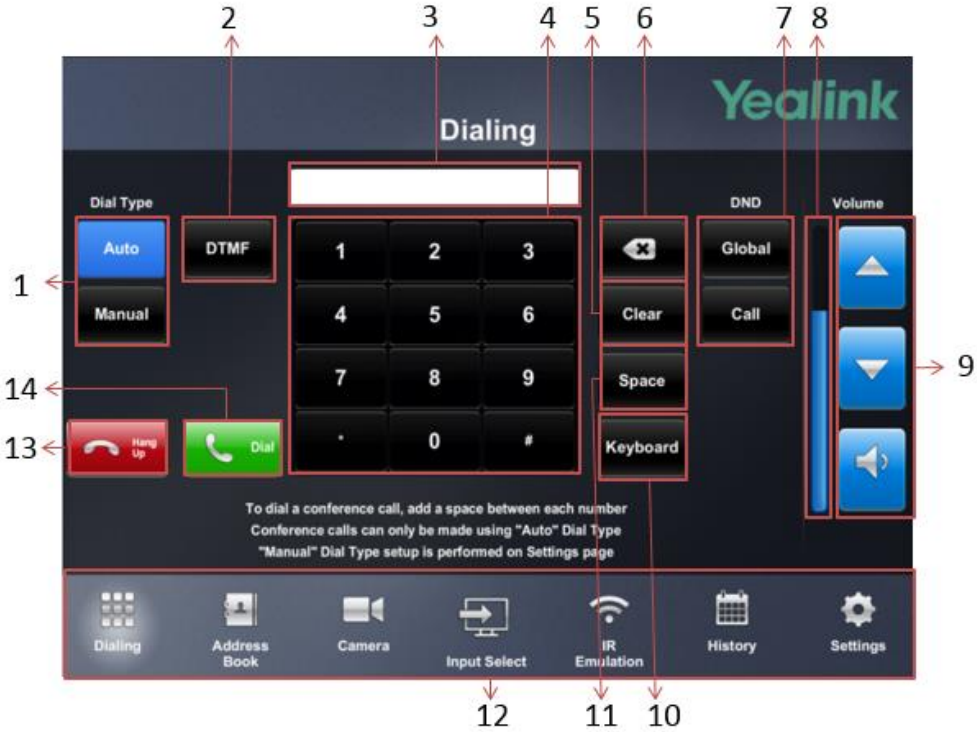
- Yealink Logo Page
- Dialing Page
- Address Book Page
- Camera Page
- Input Select Page
- IR Emulation Page
- History Page
- Settings Page

Yealink Logo Page

The Yealink Logo page is displayed after you have loaded the touch panels. Touch the Yealink Logo page to navigate to the **Dialing** page.

Dialing Page

On the **Dialing** page, you can manually dial and hang up a call.



No.	Name	Description
1	Dial type	Specifies the preferred call type for placing calls. • If you select **Auto**, the dial type is determined by the configurations on your video conferencing system. • If you select **Manual**, the dial type is determined by the configurations on your Settings page. For more information, please refer to Settings Page on page 34.
2	DTMF	Sends DTMF tones.
3	Input box	Displays the calling information you entered.
4	Keypad	Provides numbers, "#" and ".". If you want to dial a conference call, you should add a space between each phone number.
5	Clear	Clears all calling information you entered.
6	⌫	Deletes a character each time.

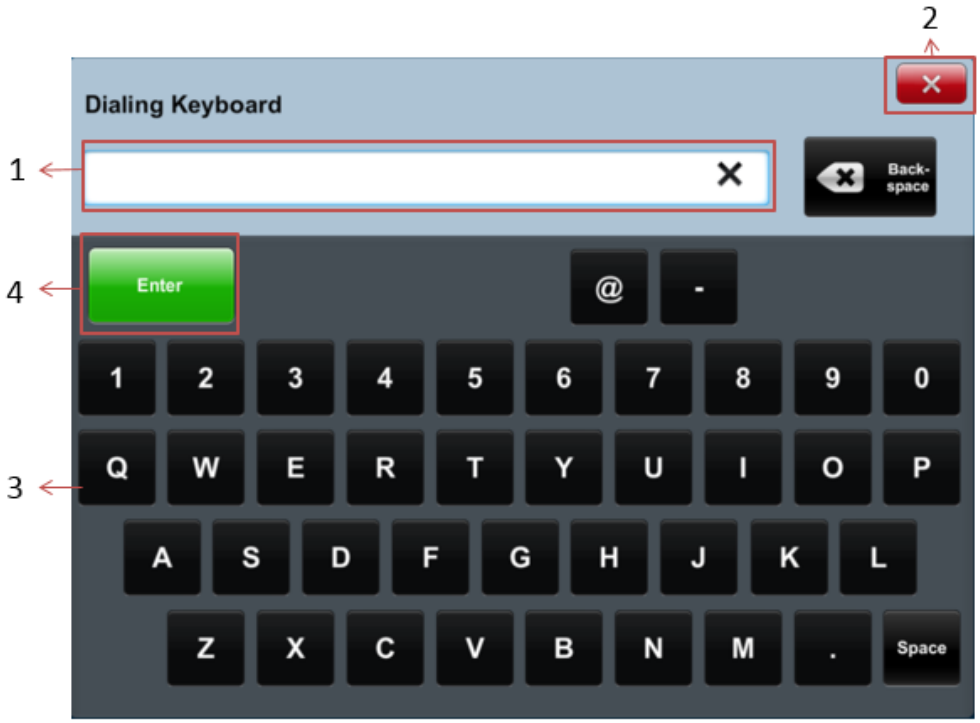
No.	Name	Description
7	DND	Configures the type of Do Not Disturb. • If you select **Global**, DND mode applies to global setting. • If you select **Call** during a call, DND mode applies to the current call.
8	Bar graph	Reflects the current volume level.
9	Volume	• Touches to increase the volume. • Touches to decrease the volume. • Touches to mute the microphone.
10	Keyboard	Opens the Dialing keyboard. For more information, please refer to Dialing Keyboard Page on page 24.
11	Space	Enters spaces.
12	Shortcut Keys	Navigates to the corresponding page.
13	Hang up	Hangs up the current call.
14	Dial	Places a call.

Dialing Keyboard Page

To enter the Dialing Keyboard page:

1. Touch **Dialing** to navigate to the Dialing page.

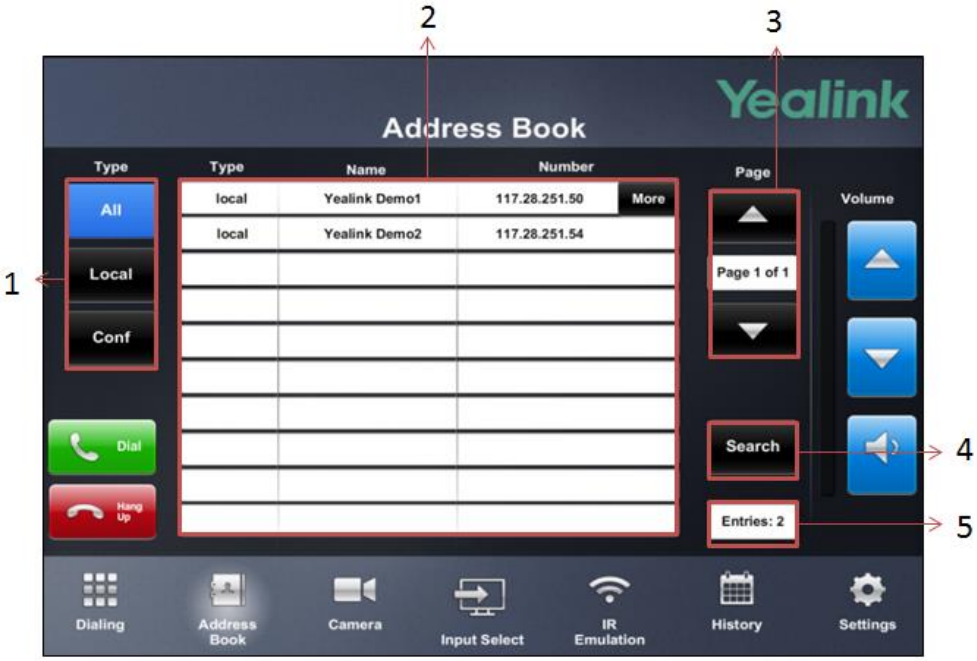
2. Touch **Keyboard** button to enter the Dialing Keyboard page.



No.	Name	Description
1	Input box	Displays the calling information you entered.
2		Closes the Dialing keyboard and return to the dialing page.
3	Keyboard	Provides the QWERTY keyboard to enter the calling information.
4	Enter	Finishes entering the calling information and returns to the Dialing page.

Address Book Page

Touch **Address Book** to navigate to the Address Book page.



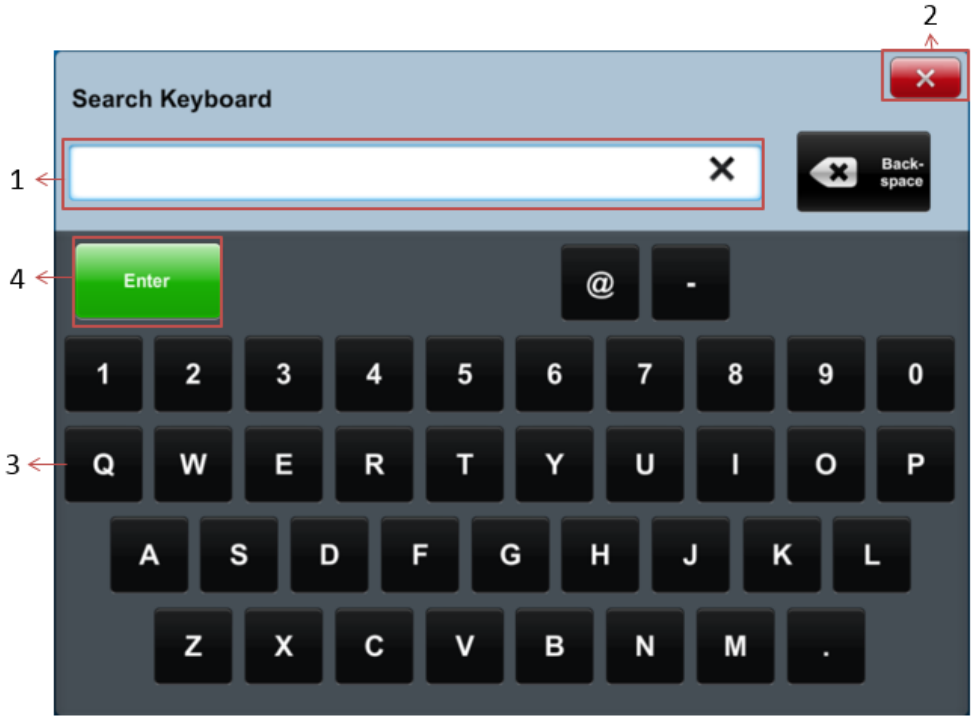
No.	Name	Description
1	Type	Provides the selection of address book type. • If you select **All**, you can view all contacts. • If you select **Local**, you can view the local contacts. • If you select **Conf**, you can view the conference contacts.
2	Contact Details	Display the information of the contacts in the selected address book. • If the contact has more than one number, the **More** button will be displayed, touch the **More** button to view additional numbers. • If the type of the contact is **Conf**, the **More** button will be hidden.
3	Page	Turns pages. If the number of contacts is more than one page, you can press ▲ or ▼ to turn pages. The center text indicates the current page and total pages.

No.	Name	Description
4	Search	Opens the Search Keyboard. For more information, please refer to Search Keyboard Page on page 27.
5	Text field	• Displays the total number of contacts in the current address book. • Displays the total number of the search results.

Search Keyboard Page

To enter the Search Keyboard page:

1. Touch **Address Book** to navigate to the Address Book page.
2. Touch **Search** button to enter the Search Keyboard page.



No.	Name	Description
1	Input box	Displays the search information you entered.
2		Closes the keyboard and return to the Address Book page.

No.	Name	Description
3	Keyboard	Provides the QWERTY keyboard to enter the search information.
4	Enter	Performs a search.

Contact Details Page

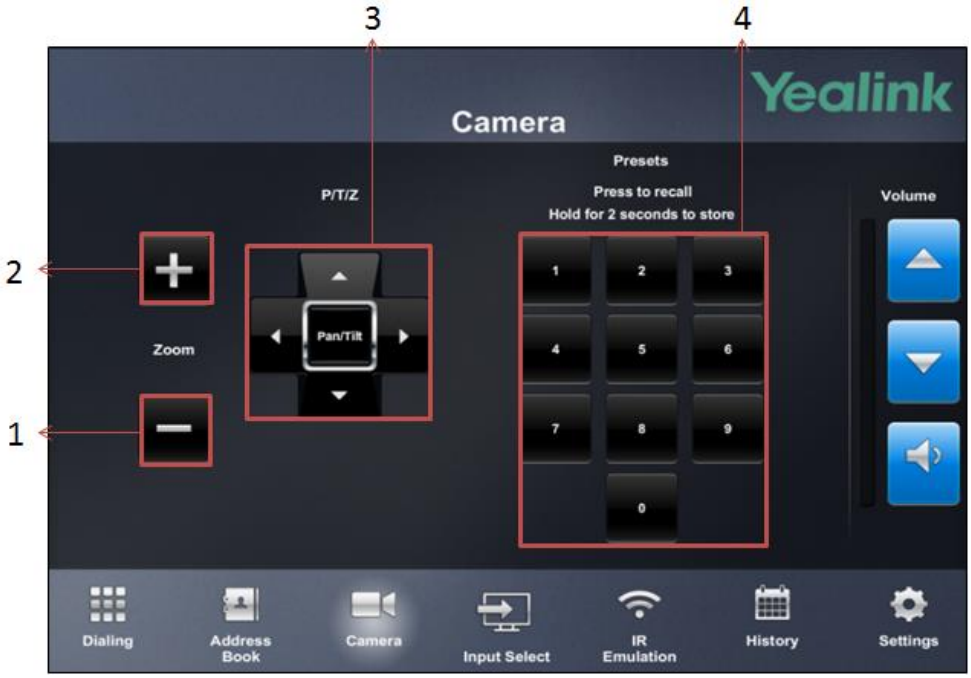
To enter the Contact Details page:

1. Touch **Address Book** to navigate to the Address Book page.
2. If a contact has more than one number, select a contact and touch the **More** button to view additional numbers.

No.	Name	Description
1	Number	Displays the phone numbers of the selected contact.
2	✕	Closes the current page and return to the Address Book page.
3	Text field	Displays the total amount of phone numbers.

Camera Page

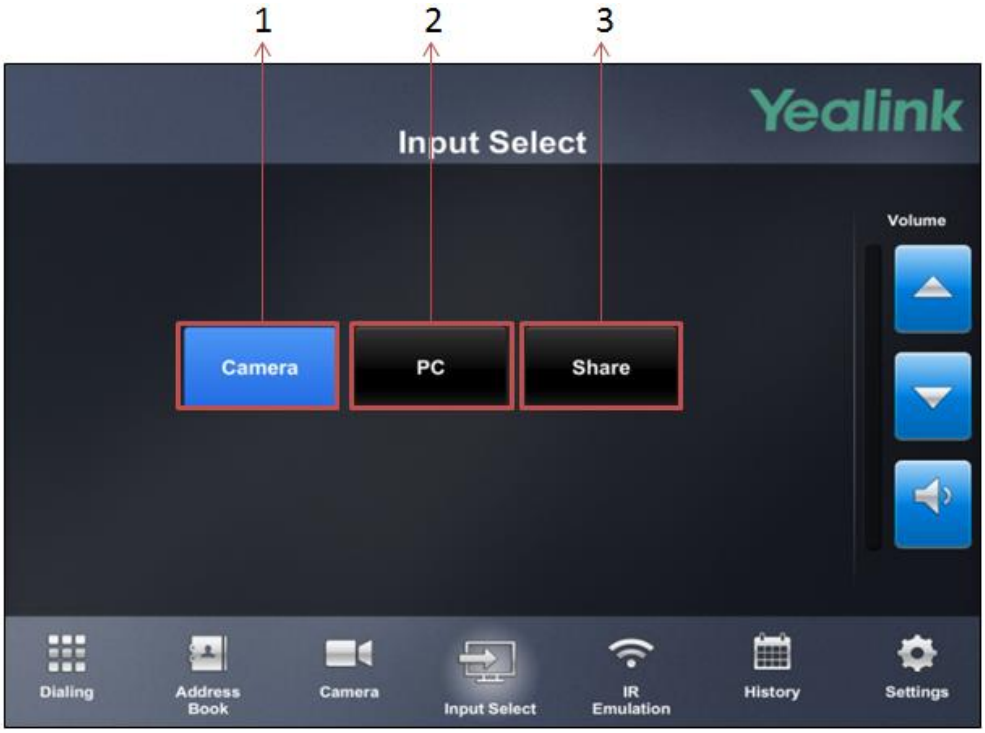
Touch **Camera** to navigate to the Camera page. On this page, you can move the camera, store the preset.



No.	Name	Description
1	Zoom out Key	• Decreases the camera zoom or the captured image magnifications. • Behaves as page down in a multiple page list.
2	Zoom in Key	• Increases the camera zoom or the captured image magnifications. • Behaves as page up in a multiple page list.
3	Navigation Key	In the idle screen, pan and tilt the camera to adjust the viewing angle.
4	Preset	Stores the preset position of the camera or adjust the camera to the preset. You can long touch any numeric key (0-9) to save the current preset position of the camera.

Input Select Page

Touch **Input Select** to navigate to the Input Select page.



No.	Name	Description
1	Camera	Displays **Camera** input source.
2	PC	Displays **PC** input source.
3	Share	Displays **Camera and PC** input source.

IR Emulation Page

Touch **IR Emulation** to navigate to the IR Emulation page. The IR Emulation page provides 3 shortcut keys (F1, F2, F3). They can help users organize conference easily with intuitive and efficient operation in all pages.

No.	Name	Description
1	Home	• Returns to the idle screen when in the menu screen. • Enters the pre-dialing screen during a call.
2	Show	Switches the input source between Camera, Camera and PC, or PC.
3	Volume	• Touches **Up** button to increase the volume. • Touches **Down** button to decrease the volume. • Touches **Mute** button to mute the microphone.
4	Zoom in Key	• Increases the camera zoom or the captured image magnifications. • Behaves as page up in a multiple page list.

No.	Name	Description
5	Record	Starts/Stops recording video.
6	Power	Puts the endpoint to sleep or wakes the endpoint up.
7	Zoom out Key	• Decreases the camera zoom or the captured image magnifications. • Behaves as page down in a multiple page list.
8	F3	Identifies context-sensitive features. In the idle screen, this is used to save and check the camera preset position, and corresponds to the Preset soft key.
9	F2	Identifies context-sensitive features. In the idle screen, this is used to enter the pre-dialing screen, and corresponds to the Call soft key.
10	F1	Identifies context-sensitive features. In the idle screen, this is used to enter main menu screen, corresponds to the Menu soft key.
11	Screenshot	Captures the image from the camera.
12	Delete	• Deletes the calling information you entered. • Long press to delete all characters in the input field.
13	Navigation Key	• In the menu screen, press ◀ or ▶ to switch menus, press ▲ or ▼ to select items. • In the idle screen, pan and tilt the camera to adjust the viewing angle.
14	OK Key	Confirms actions or answers incoming calls.

History Page

Touch **History** to navigate to the History page.

No.	Name	Description
1	Type	Provides the selection of call history type. It contains all calls, placed calls, received calls and missed calls.
2	Page	Turns pages. If the number of entries is more than one page, you can press ▲ or ▼ to turn pages.
3	Text field	Displays the total amount of entries in the selected call history type.

Settings Page

Touch **Settings** to navigate to the Settings page.

No.	Name	Description
1	Speed	Specifies the preferred call speed for placing calls.
2	Version information	Displays the information of the Yealink video conferencing system.
3	Storage	Displays the status of storage. If you insert a USB flash drive to one of the two USB port for storing screenshots and recording videos, the icon will turn to green.
4	Reinitialize	Reinitializes the Crestron® 3-Series control system.
5	Module status	Indicates the status of the Crestron® 3-Series control system.
6	Protocols	Specifies the preferred protocol for placing calls.
7	Type	Specifies the preferred call type for placing calls.

Frequently Asked Questions

This chapter provides the solutions to common issues to help you solve problems you might encounter. Upon encountering a scenario not listed in this section, contact your Yealink FAE for further support.

Why does the control device fail to connect with Crestron® 3-Series control system?

- Ensure WiFi is enabled on the control device, and that it is connected to the correct IP network. Furthermore, ensure the IP address assigned to the device is valid.
- Ensure whether the Crestron® 3-Series control system, the Yealink video conferencing system and the control device are in the same network segment.