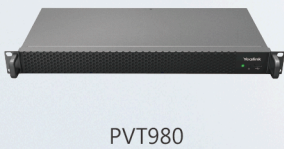


## Full HD Video Conference System Administrator Guide



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## About This Guide

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Yealink administrator guide provides general guidance on configuring, customizing, managing, and troubleshooting video conferencing systems. This guide is intended for an administrator who is experienced in system administration.

This guide is applicable to the following Yealink device:

- VC880 video conferencing system
- VC800 video conferencing system
- VC500 Pro video conferencing system
- VC500 video conferencing system
- VC200 video conferencing system
- PVT980 video conferencing system
- PVT950 video conferencing system
- VP59 video conferencing system (conference phone)

The differences between VC500 and VC500 Pro models are as follow:

Features	VC500	VC500 Pro
Work with CP960 conference phone	×	√
H.265 video codec	×	√
60 frame rate	×	√



### Note:

If you purchase VC500, but you want to use the features supported by the VC500 Pro, you can contact Yealink technical support for help.

- [Related Documents](#)
- [Summary of Changes](#)

## Related Documents

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The following related documents are available:

- Video Conferencing System Quick Start Guide, which describes how to assemble the system and configure the meeting room and the network.
- Video Conferencing System User Guide, which describes how to configure and use basic features available on the systems.
- Video Conferencing System Network Deployment Solution, which describes how to deploy the network for your systems.
- Yealink VCR11 Remote Control Quick Reference Guide, which describes how to use the VCR11 Remote Control.
- Yealink CPW90-BT Bluetooth Wireless Microphones Quick Start Guide, which describes how to connect CPW90-BT Bluetooth wireless microphones to VCS codec.
- Yealink CP960 HD IP Conference Phone Quick Reference Guide, which describes how to use CP960 conference phone.
- Yealink Wi-Fi USB Dongle WF50 User Guide, which describes how to connect the wireless network to the VCS codec and provide wireless AP via WF50.

- Yealink WPP20 Wireless Presentation Pod Quick Start Guide, which describes how to connect WPP20 wireless presentation pod to the VCS codec.
- Yealink PSTN Box CPN10 Quick Start Guide, which describes how to connect VCS codec to PSTN.
- Yealink VCC22 Video Conferencing Camera Quick Start Guide, which describes how to connect the VCC22 video conferencing cameras to VCS codec.
- Yealink CTP20 Quick Start Guide, which describes how to connect CTP20 to the VCS codec.
- Yealink VCM34 Quick Start Guide, which describes how to connect VCM34 to the VCS codec.
- Yealink VCM38 Quick Start Guide (EN,CN), which describes how to connect VCM38 to the VCS codec.
- Yealink VCH51 Quick Start Guide, which describes how to connect VCH51 to the VCS codec.
- Yealink Soundbar Quick Start Guide (EN,CN), which describes how to connect Soundbar to the VCS codec.
- Yealink MSpeaker II Quick Start Guide (EN,CN), which describes how to connect MSpeaker II to the VCS codec.

You can download these documentations online:

<http://support.yealink.com/documentFront/forwardToDocumentFrontDisplayPage>.

For support or service, please contact your Yealink reseller or go to Yealink Technical Support online:

<http://support.yealink.com/>.

## Summary of Changes

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- [Changes for Release Guide Version V43.30](#)
- [Changes for Release Guide Version V43.10](#)

### Changes for Release Guide Version V43.30

The following sections are new for this version:

- [Hardware of MSpeaker II](#)
- [Enabling/Disabling the PC Port](#)
- [Setting Screen Saver for VP59](#)
- [Setting Wallpaper for VP59](#)
- [Configuring the Display to Wake up the Sleeping Endpoint](#)
- [Configuring Auto Zoom In Content for a Single Screen](#)
- [Showing the Site Name to Remote Parties](#)
- [Configuring \\* Key for Default Input](#)
- [Dial Plan](#)

Major updates have occurred to the following sections:

- [Configuring Change Layout by Content Sharing](#)
- [Specifying Content to the Secondary Screen](#)
- [Selecting the Video Frame Rate and the Resolution](#)
- [Using the Soundbar/MSpeaker II](#)
- [System Firmware](#)

### Changes for Release Guide Version V43.10

The following sections are new for this version:

- [Quickly Switching Platform](#)
- [Configuring to Automatically Upload Screenshots to the YMS Server](#)

- [Configuring SNMP](#)
- [Configuring Call Rate Adaptation](#)
- [Displaying Camera Name When Multi-camera Connected](#)

Major updates have occurred to the following sections:

- [Configuring Video Recording](#)
- [Configuring the Virtual Room](#)
- [Setting the Camera Presets](#)
- [Using WPP20 Wireless Presentation Pod](#)
- [Call Issues](#)

## Getting Started

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This chapter introduces the basic operation of VCS.

- [Hardware Overview](#)
- [LED Instructions](#)
- [Powering on and off](#)

## Hardware Overview

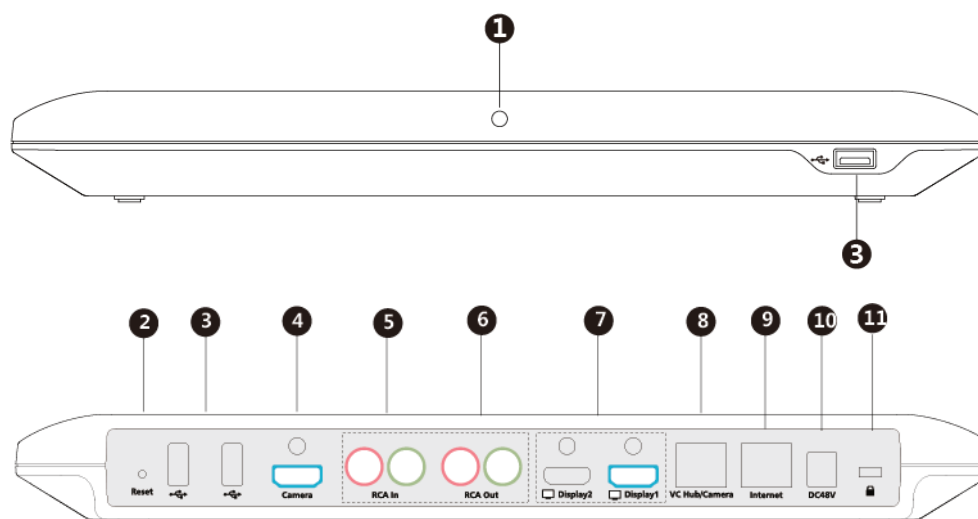
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- [Hardware of VC880 Codec](#)
- [Hardware of PVT980 Codec](#)
- [Hardware of VC800 Codec](#)
- [Hardware of VC500/PVT950 Codec](#)
- [Hardware of VC200 Codec](#)
- [Hardware of VP59 Codec](#)
- [Hardware of VCC22 Video Conferencing Camera](#)
- [Hardware of VCH50 Video Conferencing Hub](#)
- [Hardware of VCH51 Video Conferencing Hub](#)
- [Hardware of CP960 Conference Phone](#)
- [Introduction of CTP20 Touch Panel](#)
- [Hardware of WPP20 Wireless Presentation Pod](#)
- [Hardware of CPE90 Wired Expansion Microphones](#)
- [Hardware of CPW90-BT Bluetooth Wireless Microphone](#)
- [Hardware of VCR11 Remote Control](#)
- [Hardware of VCM34](#)
- [Hardware of MSpeaker](#)
- [Hardware of MSpeaker II](#)

### Hardware of VC880 Codec

With rich physical interfaces for audio and video connection, VC880 can be connected to the 3rd-party camera or access to the video matrix. In addition, it comes with the professional RCA-in/out interface that integrates the mixer with the gooseneck microphone. Its spilt-type structure can meet the deployment requirement of the control room which separates from a large conference room.

The following introduces the corresponding ports on VC880.

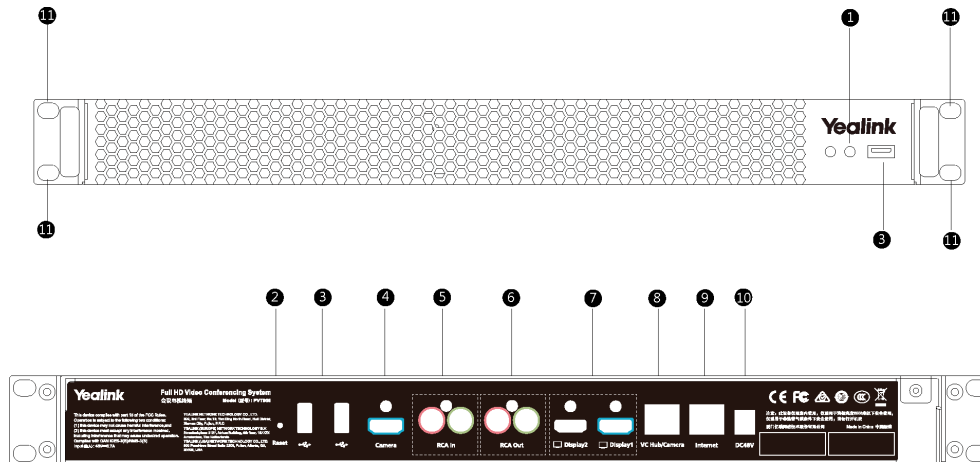


	Port Name	Description
1	LED Indicator	Indicate different status of the system.
2	Reset Key	Reset the system to factory defaults.
3	USB	<ul style="list-style-type: none"> <li>Connect to a USB flash drive.</li> <li>Insert a USB flash drive for storing screenshots, recording videos or capturing packets. If multiple USB flash drives are connected, only the last one can be identified.</li> <li>Insert a WF50 Wi-Fi USB Dongle for connecting to Wi-Fi or providing wireless AP.</li> <li>Insert a BT42 Bluetooth USB Dongle for connecting to the CPW90-BT Bluetooth wireless microphones.</li> <li>Insert a PSTN box CPN10 for connecting to the PSTN (Public Switched Telephone Network).</li> </ul>
4	Camera Port	Connect to a third-party camera.
5	RCA In	Connect to an audio input device via a RCA cable.
6	RCA Out	Connect to an audio output device via a RCA cable.
7	Display	Connect to a monitor for video images output.
8	VC Hub/Camera	<ul style="list-style-type: none"> <li>For wired content sharing, connect this port to the Codec port on the VCH50 video conferencing hub or the PoE port on the VCH51 video conferencing hub.</li> <li>Connect this port to the Camera port on the VCC22 video conferencing camera.</li> <li>If you need an audio device, connect this port to the Internet port on the CP960 Conference phone.</li> <li>Connect to VCM34.</li> </ul>
9	Internet	Connect to the network device.
10	DC48V	Connect to the power source via a power adapter.
11	Security Slot	Allow you to connect a universal security cable to the codec, so you can lock the codec down. The system cannot be removed when locked.

## Hardware of PVT980 Codec

PVT980, targeted at large meeting room, is applicable to the meeting room with a rack or the lecture hall. Possessing rich physical interfaces for audio and video connection, PVT980 can be connected to the 3rd-party camera or access to the video matrix. In addition, it comes with the professional RCA-in/out interface that integrates the mixer with the gooseneck microphone.

The following introduces the corresponding ports on PVT980.



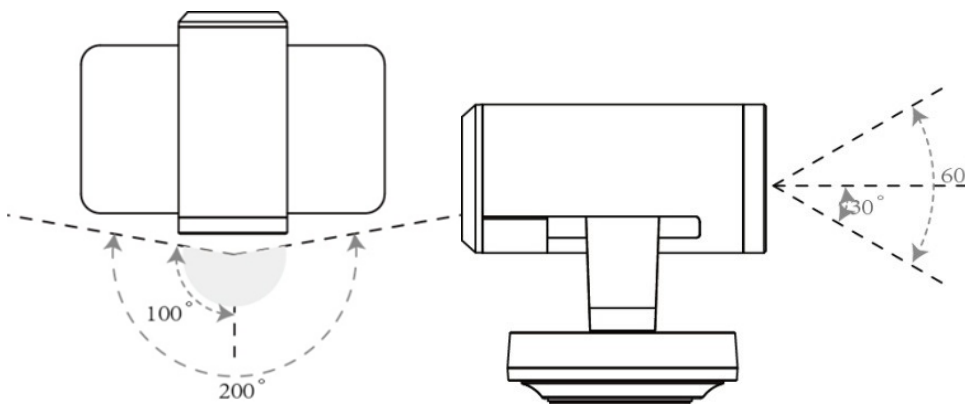
	Port Name	Description
1	LED Indicator	Indicate different statuses of the system.
2	Reset Key	Reset the system to factory defaults.
3	USB	<ul style="list-style-type: none"> <li>Connect to a USB flash drive.</li> <li>Insert a USB flash drive for storing screen shots, the recorded videos and captured packets. If multiple USB flash drives are connected, only the last one can be identified.</li> <li>Insert a WF50 Wi-Fi USB Dongle for connecting to Wi-Fi or providing wireless AP.</li> <li>Insert a BT42 Bluetooth USB Dongle for connecting to the CPW90-BT Bluetooth wireless microphones.</li> <li>Insert a PSTN box CPN10 for connecting to the PSTN (Public Switched Telephone Network).</li> </ul>
4	Camera Port	Connect to a third-party camera.
5	RCA In	Connect to an audio input device via an RCA cable.
6	RCA Out	Connect to an audio output device via an RCA cable.
7	Display	Connect to a monitor for video images output.
8	VC Hub/Camera	<ul style="list-style-type: none"> <li>For wired content sharing, connect this port to the Codec port on the VCH50 video conferencing hub or the PoE port on the VCH51 video conferencing hub.</li> <li>Connect this port to the Camera port on the VCC22 video conferencing camera.</li> <li>If you need an audio device, connect this port to the Internet port on the CP960 Conference phone.</li> </ul>

	Port Name	Description
9	Internet	Connect to the network device.
10	DC48V	Connect to the power source via a power adapter.
11	Slot Hole	Use the screws to lock the PVT980 system to the rack.

## Hardware of VC800 Codec

VC800 codec compresses the outgoing video and audio data, transmits the data to the far site, and decompresses the incoming data.

Supporting 16:9 and 4:3 aspect ratios, VC800 codec is compatible with different audio devices, and can adapt to the monitors automatically. The VC800 camera can be panned ( $\pm 100$  degrees range), tilted ( $\pm 30$  degrees range) and supports 12 x optical zoom, white balance, automatic gain and so on.



- [Front Panel of VC800 Codec](#)
- [Rear Panel of VC800 Codec](#)

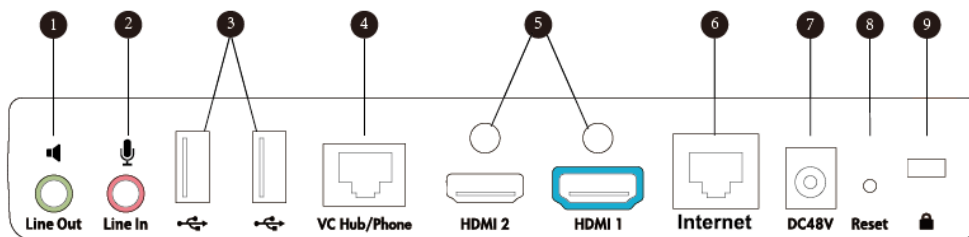
### Front Panel of VC800 Codec

The LED indicator in front of the camera indicates different camera statuses.

### Related information

[LED Instructions of VC880/VC800/VC500/VC200/PVT980/PVT950](#)

### Rear Panel of VC800 Codec



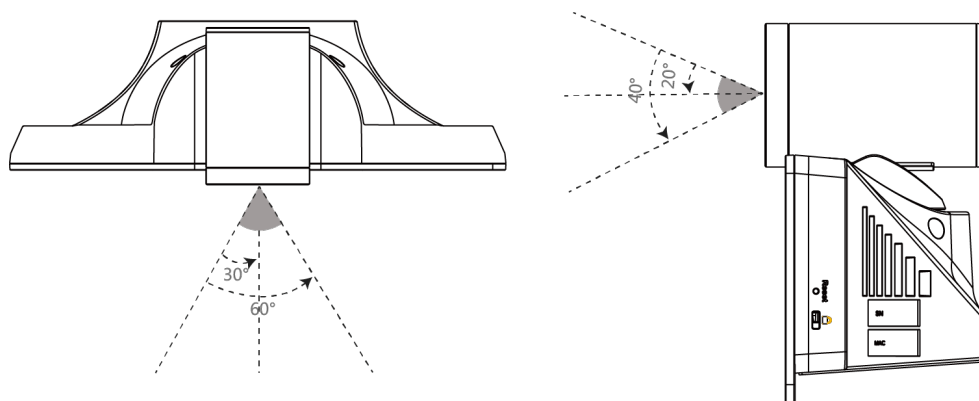
	Port Name	Description
1	Line Out	Connect to an audio output device via an audio cable (3.5mm).
2	Line In	Connect to an audio input device via an audio cable (3.5mm).

	Port Name	Description
3	USB	<ul style="list-style-type: none"> <li>Connect to a USB flash drive. Insert a USB flash drive for storing screen shots, the recorded videos and captured packets. If multiple USB flash drives are connected, only the last one can be identified.</li> <li>Insert a WF50 Wi-Fi USB Dongle for connecting to Wi-Fi or providing wireless AP.</li> <li>Insert a BT42 Bluetooth USB Dongle for connecting to the CPW90-BT Bluetooth wireless microphones.</li> <li>Insert a PSTN box CPN10 for connecting to the PSTN (Public Switched Telephone Network).</li> </ul>
4	VC Hub/Phone	<ul style="list-style-type: none"> <li>For wired content sharing, connect this port to the Codec port on the VCH50 video conferencing hub or the PoE port on the VCH51 video conferencing hub.</li> <li>If you need an audio device, connect this port to the Internet port on the CP960 Conference phone.</li> <li>Connect to VCM34.</li> </ul>
5	HDMI	Connect to a monitor.
6	Internet	Connect to the network device.
7	DC48V	Connect to the power source via a power adapter.
8	Reset Key	Reset the system to factory defaults.
9	Security Slot	Allow you to connect a universal security cable to the codec, so you can lock the codec down. The system cannot be removed when locked.

## Hardware of VC500/PVT950 Codec

VC500/PVT950 codec compresses outgoing video and audio data, transmits this information to the far site, and decompresses incoming data.

VC500/PVT950 codec, compatible with different audio devices, supports 16:9 and 4:3 aspect ratios and can adapt to the monitors automatically. The VC500/PVT950 camera can be panned ( $\pm 30$  degrees range), tilted ( $\pm 20$  degrees range) and support 5 x optical zoom, white balance and automatic gain.

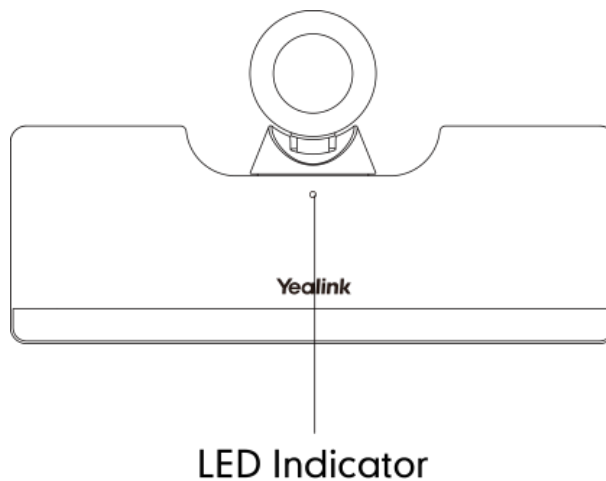


- [Front Panel of VC500/PVT950 Codec](#)
- [Rear Panel of VC500 Codec](#)



### Front Panel of VC500/PVT950 Codec

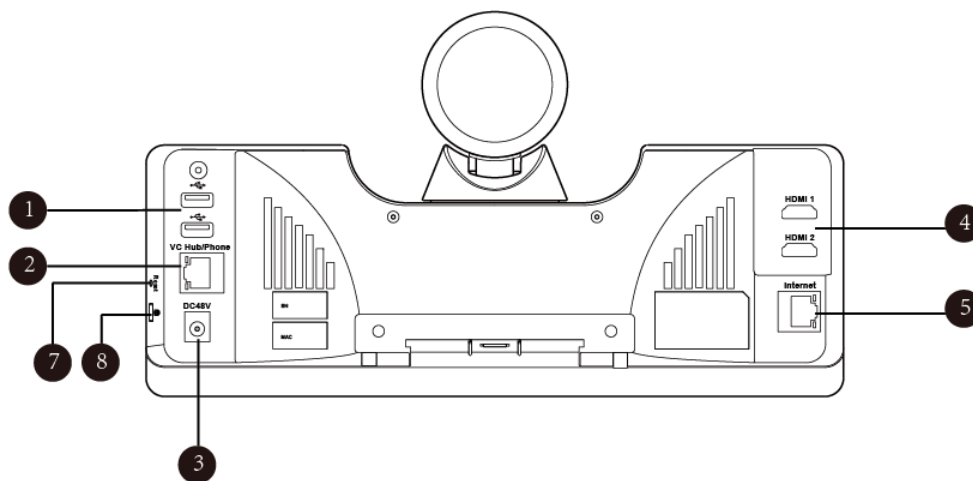
The LED indicator in front of the camera indicates different camera statuses.



### Related information

[LED Instructions of VC880/VC800/VC500/VC200/PVT980/PVT950](#)

### Rear Panel of VC500 Codec



	Port Name	Description
1	USB	<ul style="list-style-type: none"> <li>Connect to a USB flash drive. Insert a USB flash drive for storing screen shots, the recorded videos and captured packets. If multiple USB flash drives are connected, only the last one can be identified.</li> <li>Connect to an audio input device via a USB to line input adapter.</li> <li>Connect to an audio output device via a USB to line input adapter.</li> <li>Insert a WF50 Wi-Fi USB Dongle for connecting to Wi-Fi or providing wireless AP.</li> <li>Insert a BT42 Bluetooth USB Dongle for connecting to the CPW90-BT Bluetooth wireless microphones.</li> <li>Insert a PSTN box CPN10 for connecting to the PSTN (Public Switched Telephone Network).</li> </ul>

	Port Name	Description
2	VC Hub/Phone	<ul style="list-style-type: none"> <li>For wired content sharing, connect this port to the Codec port on the VCH50 video conferencing hub or the PoE port on the VCH51 video conferencing hub.</li> <li>If you need an audio device, connect this port to the Internet port on the CP960 Conference phone.</li> <li>Connect to VCM34. (It is not applicable to PVT950)</li> </ul>
3	DC48V	Connect to the power source via a power adapter.
4	HDMI	Connect to a monitor.
5	Internet	Connect to the network device.
6	Reset Key	Reset the system to factory defaults.
7	Security Slot	Allow you to connect a universal security cable to the codec, so you can lock the codec down. The system cannot be removed when locked.

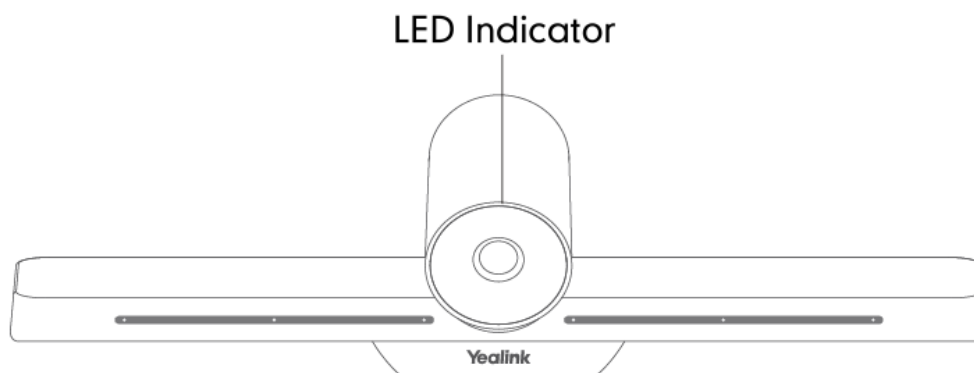
## Hardware of VC200 Codec

Yealink VC200 is an entry-level smart video conferencing endpoint designed for small and huddle room. VC200 possesses many features, including ultra HD 4K, 4 x digital zoom camera, 103° super-wide angle lens, white balance automatic gain and others. With 6 beamforming microphone arrays for direct voice pickup and Yealink Noise Proof Technology, VC200 brings excellent audio effect in small rooms and ensures that everyone can be heard clearly.

- [Front Panel of VC200 Codec](#)
- [Rear Panel of VC200 Codec](#)
- [Bottom of VC200 Codec](#)

### Front Panel of VC200 Codec

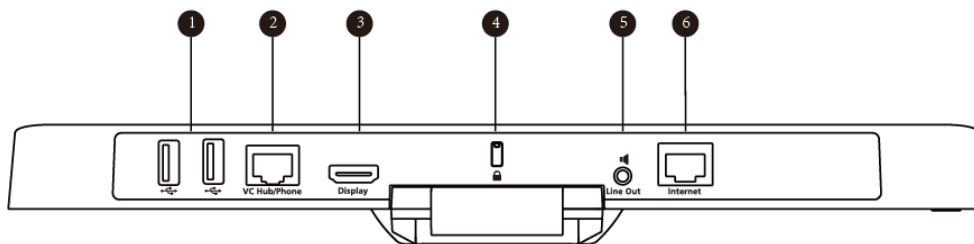
The LED indicator in front of the camera indicates different camera statuses.



### Related information

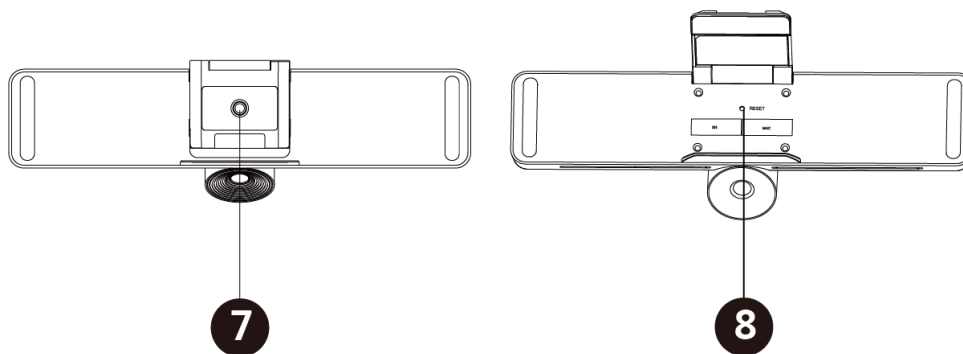
[LED Instructions of VC880/VC800/VC500/VC200/PVT980/PVT950](#)

**Rear Panel of VC200 Codec**



	Port Name	Description
1	USB	<ul style="list-style-type: none"> <li>Connect to a USB flash drive for storing screen shots, the recorded videos and captured packets. If multiple USB flash drives are connected, only the last one can be identified.</li> <li>Insert a PSTN box CPN10 for connecting to the PSTN (Public Switched Telephone Network).</li> </ul>
2	VC Hub/Phone	<ul style="list-style-type: none"> <li>For wired content sharing, connect this port to the Codec port on the VCH50 video conferencing hub or the PoE port on the VCH51 video conferencing hub.</li> <li>If you need an audio device, connect this port to the Internet port on the CP960 Conference phone.</li> <li>Connect to VCM34.</li> </ul>
3	Display	Connect to a monitor for video images output.
4	Security Slot	Allow you to connect a universal security cable to the codec, so you can lock the codec down. The system cannot be removed when locked.
5	Line Out	Connect to an audio output device via an audio cable (3.5mm).
6	Internet	Connect to the PoE via the network cable.

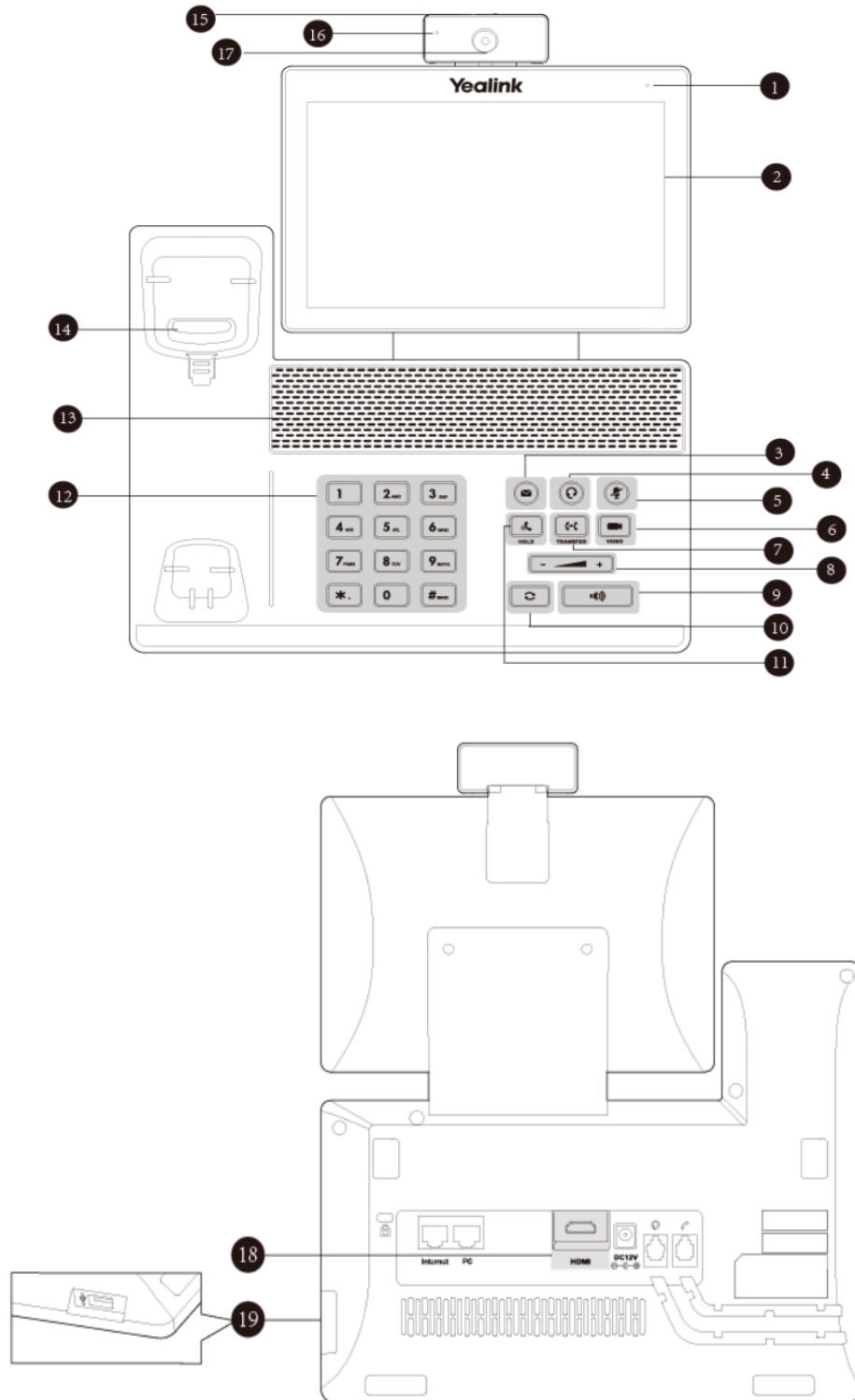
**Bottom of VC200 Codec**



	Port Name	Description
7	VESA	Fix VC200 to the TV stand or a tripod via a 1/4"-20 UNC screw.
8	Reset Key	Reset the system to factory defaults.

## Hardware of VP59 Codec

You can use VP59 as a video phone on your desktop, you can also use it as a video conferencing device in a small meeting room of 20-30 square meters.

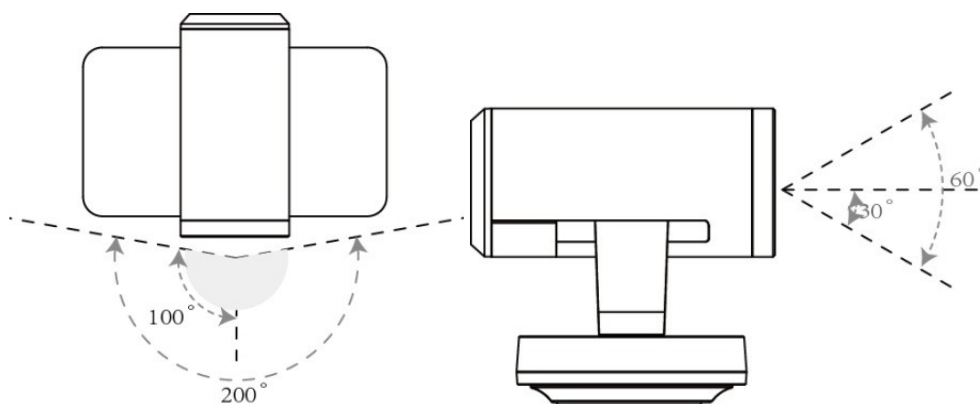


	Name	Description
1	Power Indicator LED	Indicates the call status and the system status.
2	Touch Screen	Touch to select the desired item. Displays the time, the date, the call and other related information.
3	MESSAGE Key	Not available.
4	HEADSET Key	Toggles and indicates the headset mode. The key LED glows green when headset mode is activated.
5	Mute Key	Toggles and indicates the mute feature. The key LED glows red when the call is muted.
6	VIDEO Key	<ul style="list-style-type: none"> <li>Allows you to preview local-site video when the phone is idle.</li> <li>Controls the transmission of video images during calls and conferences.</li> </ul>
7	TRANSFER Key	Not available.
8	Volume Key	Adjusts the volume of the handset, the speakerphone, the earphone, ringer or the media.
9	Speakerphone Key	Toggles and indicates the hands-free (speakerphone) mode. When the hands-free (speakerphone) mode is activated: the key LED glows green
10	REDIAL Key	Redials a previously dialed number.
11	HOLD Key	Not available.
12	Keypad	Use it to type in digits, letters and special characters.
13	Speaker	Provides hands-free (speakerphone) audio output.
14	Hookswitch	<ul style="list-style-type: none"> <li>Picking up the handset from the handset cradle, the hookswitch bounces and the phone connects to the line.</li> <li>Laying down the handset on the handset cradle, the phone disconnects from the line.</li> </ul>
15	Shutter Switch	Covers or uncovers the camera. When the camera is switched off, the video image turns to be black.
16	Camera Indicator LED	Indicates the status of video call and camera: <ul style="list-style-type: none"> <li>Receives a video call—Flashing green</li> <li>The camera is inserted and detected successfully on the phone—green</li> </ul>
17	Camera Lens	Two mega-pixel camera. The optimal object distance should be from 0.35m (1 foot) to 2m (6 feet).
18	HDMI	Connect to a monitor for displaying video image.
19	USB 2.0 Port	Connect to a USB flash drive/WPP20/CPN10/USB to Line output.

## Hardware of VCC22 Video Conferencing Camera

VCC22 is a video conferencing camera for VC880/VC800/PVT980. It adopts 12x optical zoom lens, supports 1080P/60 frame full HD video, has OSMO and PTZ function, and possesses professional video quality and environmental adaptability. You can connect up to 9 VCC22 video conferencing cameras to the VC880/PVT980 video conferencing system, and 8 to VC800 video conferencing system.

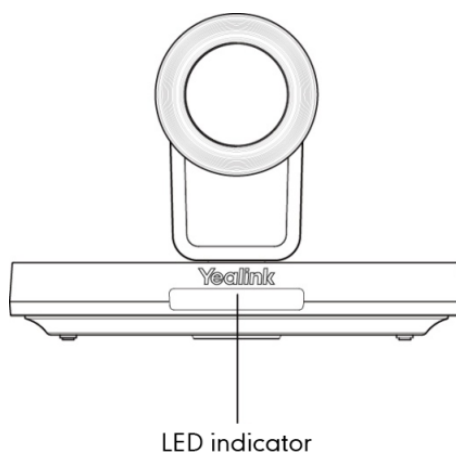
The VCC22 camera can be panned ( $\pm 100$  degrees range), tilted ( $\pm 30$  degrees range) and supports 12 x optical zoom, white balance and automatic gain.



- [Front Panel of VCC22 Video Conferencing Camera](#)
- [Rear Panel of VCC22 Video Conferencing Camera](#)

### Front Panel of VCC22 Video Conferencing Camera

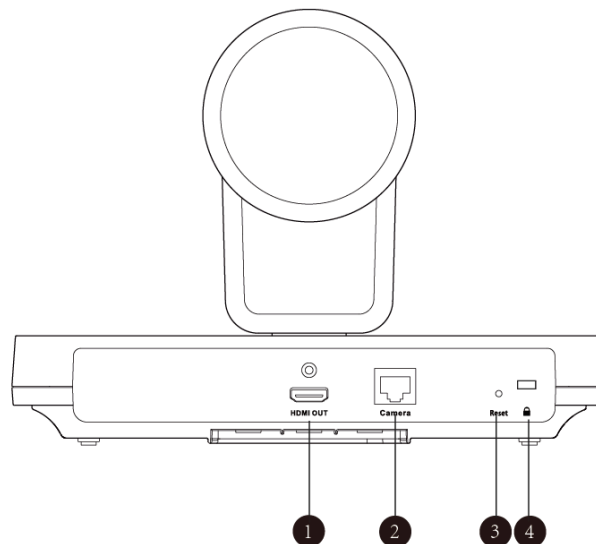
The LED indicator in front of the camera indicates different camera statuses.



### Related information

[LED Instructions of VCC22 Video Conferencing Camera](#)

## Rear Panel of VCC22 Video Conferencing Camera



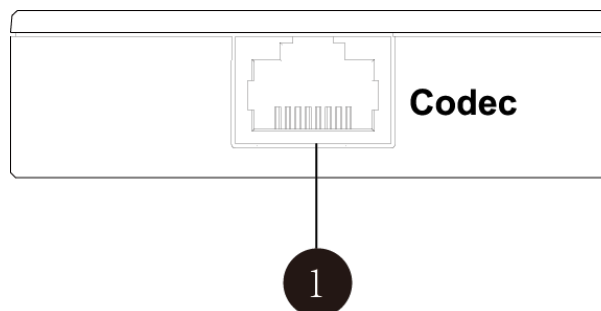
	Port Name	Description
1	HDMI Out	Connect to a monitor for displaying shared content.
2	Camera Port	Connect to a PoE switch.
3	Reset Key	Reset the camera to factory defaults.
4	Security Slot	Allow you to connect a universal security cable to VCC22, so you can lock it down. The camera cannot be removed when locked.

## Hardware of VCH50 Video Conferencing Hub

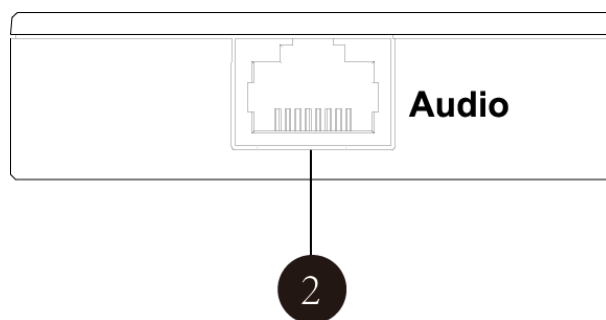
You can connect VCH50 to the computer for presentation. If you want to connect a PC to your system using Ethernet cable, you need to connect the VCH50 video conferencing hub to your system. Connecting VCH50 to the computer for presentation is not applicable to VP59.

- [Left Side of VCH50](#)
- [Right Side of VCH50](#)
- [Rear Panel of VCH50](#)

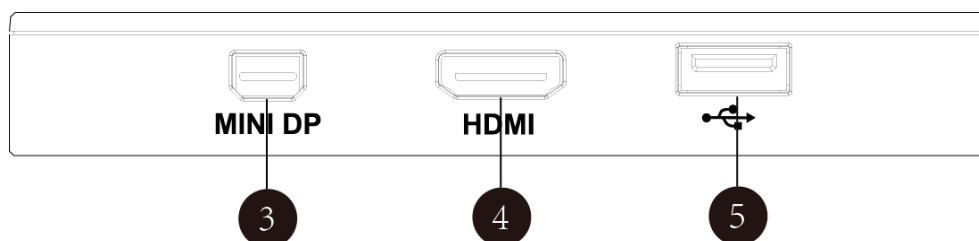
### Left Side of VCH50



	Port Name	Description
1	Codec	Connect to the video conferencing system via the provided 7.5m network cable.

**Right Side of VCH50**

	Port Name	Description
2	Audio	Connect to the CP960 Conference phone via the provided 0.5m network cable.

**Rear Panel of VCH50**

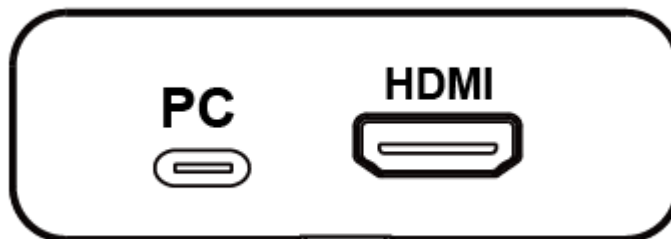
	Port Name	Description
3	MINI DP	Connect to PC via Mini-DP cable for sharing content.
4	HDMI	Connect to PC via HDMI cable for sharing content.
5	USB	Connect to a USB flash drive. Insert a USB flash drive for storing screen shots, the recorded videos and captured packets.

**Hardware of VCH51 Video Conferencing Hub**

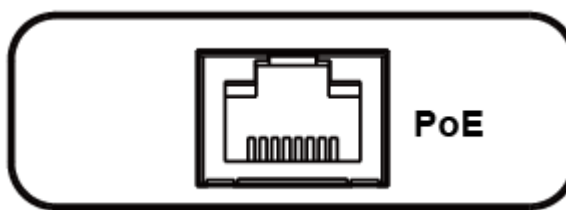
You can connect VCH51 to the computer for presentation. If you want to connect a PC to your system using Ethernet cable, you need to connect the VCH51 video conferencing hub to your system. Connecting VCH51 to the computer for presentation is not applicable to VP59.

- [Left Side of VCH51](#)
- [Right Side of VCH51](#)



**Left Side of VCH51**

	Port Name	Description
1	PC	Connect to PC via USB Type-C cable for sharing content.
2	HDMI	Connect to PC via HDMI cable for sharing content.

**Right Side of VCH51**

	Port Name	Description
1	PoE	Connect to the VC Hub/Phone port of the video conferencing system or PoE switch via the provided network cable.

**Hardware of CP960 Conference Phone**

You can use CP960 conference phone as a microphone and a speaker when you are using VC200/VC500/VC800/VC880/PVT980/PVT950 to place calls. You can also place calls, answer calls or view directory and history on the CP960 conference phone.

CP960 Conference Phone	No.	Name	Description
	1	Three Built-in Microphones	Support 360-degree audio pickup at a radius of up to 6 meters.
	2	Mute Key	<ul style="list-style-type: none"> <li>Indicate the status of the device and the call.</li> <li>Toggle mute feature.</li> </ul>
	3	Speaker	Provide audio output.
	4	Touch Screen	5 inch (720 x 1280) capacitive (5-point) touch screen.
	5	Volume Touch Keys	Adjust the volume of the speaker, ringer or media.
	6	HOME Touch Key	Return to the idle screen.
	7	Wired Mic Ports	Allow you to connect CPE90 to your phone (optional).
	8	Internet	<ul style="list-style-type: none"> <li>Connect to the VC Hub/Phone port on the video conferencing system.</li> <li>Connect to the Audio port on the VCH50 video conferencing hub.</li> </ul>
	9	Security Slot	Allow you to connect a universal security cable to your phone so you can lock down your phone. The phone will not be removed after locked.
	10	3.5mm Audio-out Port	This port is unavailable when CP960 works with the video conferencing system.

CP960 Conference Phone	No.	Name	Description
	11	Micro USB Port	This port is unavailable when CP960 works with the video conferencing system.
	12	USB	<ul style="list-style-type: none"> <li>• Connect to a USB flash drive.</li> </ul> Insert a USB flash drive for storing screen shots, the recorded videos and captured packets. If multiple USB flash drives are connected, only the last one can be identified.

**Related information**

[Mute Indicator LED of CP960 Conference Phone](#)

**Introduction of CTP20 Touch Panel**

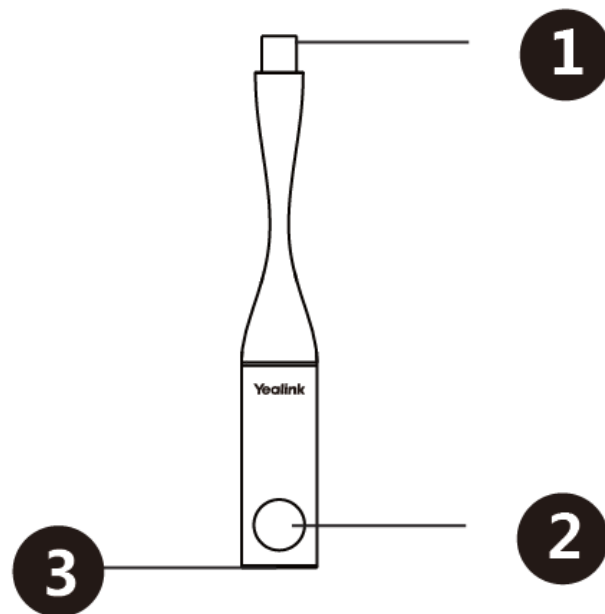
As the controller of VCS devices, CTP20 touch panel can help you fully control VC200/VC500/VC800/VC880/PVT980/PVT950 system. You can use it to place calls, initiate conferences, adjust the volume, control the camera, record videos, and so on. What's more, CTP20 supports collaborative editing and the annotation, that is to say, participants can add notes to the presentation or to the whiteboard, which can improve the communication efficiency of the traditional video conferencing presentation.

**Related information**

[Troubleshooting](#)

**Hardware of WPP20 Wireless Presentation Pod**

Combining a self-built 5G Wi-Fi, WPP20, the wireless presentation pod, partners with Yealink new-generation video conferencing system to offer high-quality wireless content sharing with just one tap.



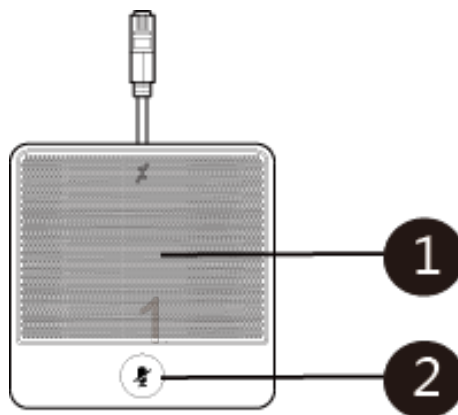
	Name	Description
1	USB	Connects to the video conferencing system to obtain Wi-Fi profile. Connects to the PC for sharing content.
2	Presentation Button	Press it to start or to stop sharing the full screen of the PC. Long press it for 3 seconds and release it, and then choose the window you want to share.
3	LED Indicator	Indicates the status.

**Related information**

[LED Instructions of WPP20 Wireless Presentation Pod](#)

**Hardware of CPE90 Wired Expansion Microphones**

The CPE90 can work as expansion microphones of the CP960 conference phone. It supports 360-degree audio pickup at a radius of up to 3 meters. You can connect 2 CPE90s to CP960 at most via MIC ports.



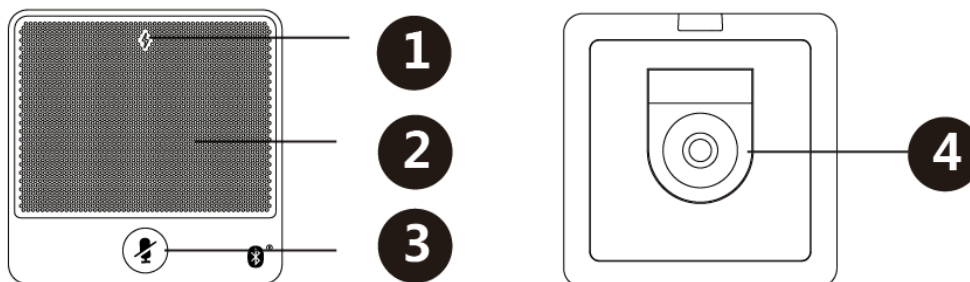
	Name	Description
1	Built-in Microphones	Supports 360-degree audio pickup at a radius of up to 3 meters.
2	Mute Button	<ul style="list-style-type: none"> <li>Indicates call status.</li> <li>Toggles mute feature.</li> </ul>

#### Related information

[Mute Indicator LED of CPE90 Wired Expansion Microphones](#)

### Hardware of CPW90-BT Bluetooth Wireless Microphone

The CPW90-BT is a Bluetooth wireless microphone, which can work as the audio input device of the video conferencing system. It supports 360-degree audio pickup at a radius of up to 3 meters. There are a mute button and a battery indicator LED on its top. You can mute or unmute the CPW90-BT by tapping the mute button. CPW90-BT Bluetooth Wireless Microphones is not applicable to VP59.



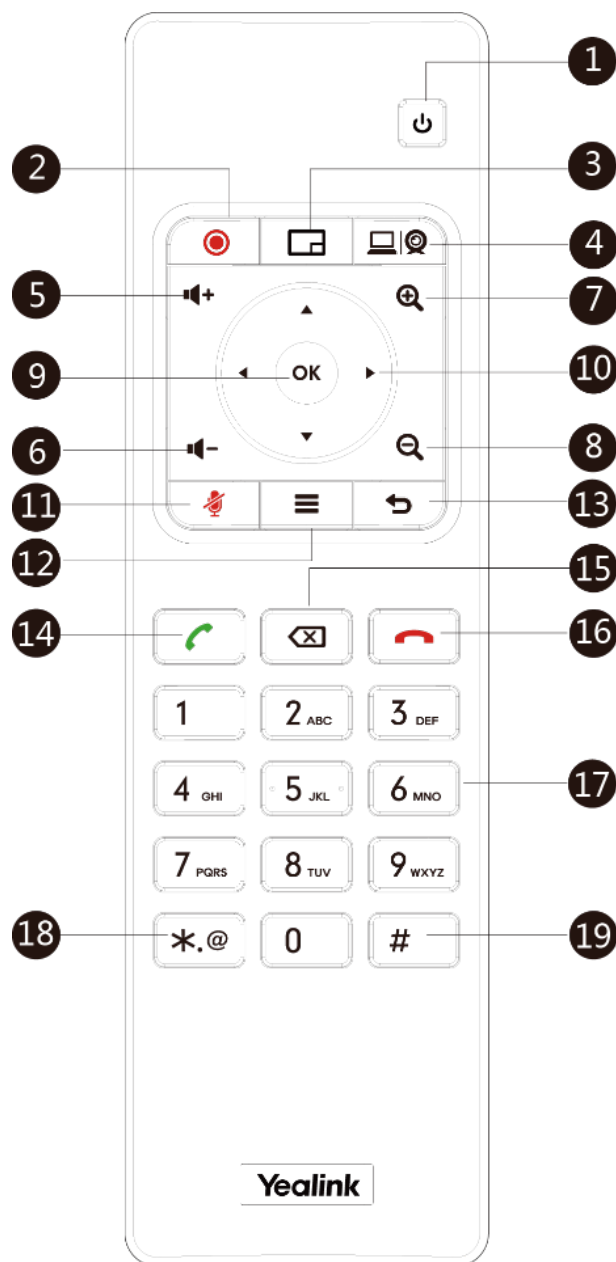
	Name	Description
1	Battery Indicator LED	Indicates the battery information.
2	Built-in Microphones	Supports 360-degree audio pickup at a radius of up to 3 meters.
3	Mute Button	<ul style="list-style-type: none"> <li>Indicates call status.</li> <li>Toggles mute feature.</li> </ul>
4	Charging Slot	Put the CPW90-BT on the charging cradle to charge.

#### Related information

[Battery Indicator LED](#)

### Hardware of VCR11 Remote Control

The VCR11 remote control enables you to operate a video conferencing system. This includes placing calls, adjusting EQ volume, controlling the camera, navigating screens, and more. The following table introduces the keys on the remote control.



No.	Name	Description
1	Power Key	<ul style="list-style-type: none"> <li>Power on or power off the system.</li> <li>Put the system to sleep or wake up the system.</li> </ul>
2	Video Recording Key	Start or stop recording the video and audio.
3	Layout Key	Adjust the layout during a video call.
4	Custom Key	<p>Customize the key function.</p> <p>You can configure this key as the Presentation key (default), the Input key, the ScreenShot key, Mute Speaker key, or Preset key.</p>
5	Volume up key	Increase the speaker volume.

No.	Name	Description
6	Volume down key	Decrease the speaker volume.
7	Zoom in key	<ul style="list-style-type: none"> <li>• Increase the focal length of the camera.</li> <li>• Zoom in the screenshot.</li> <li>• Turn the page up.</li> </ul>
8	Zoom out key	<ul style="list-style-type: none"> <li>• Decrease the focal length of the camera.</li> <li>• Zoom out the screenshot.</li> <li>• Turn the page down.</li> </ul>
9	OK key	Go the sub-menu, confirm actions or answer incoming calls.
10	Navigation Key	<ul style="list-style-type: none"> <li>• Navigate through menu items.</li> <li>• Pan and tilt the camera to adjust the viewing angle.</li> </ul>
11	Mute Key	Mute or unmute the microphone.
12	Home key	<ul style="list-style-type: none"> <li>• Return to the idle screen when the device is not in a call.</li> <li>• Open the Talk Menu during a call.</li> </ul>
13	Back key	Return to the previous menu.
14	Off-hook Key	Enter the pre-dialing screen, the dialing screen or the answering screen.
15	Delete Key	<ul style="list-style-type: none"> <li>• Delete the text. Delete one character at a time. Long press to delete all characters in the input field.</li> <li>• One press to capture packets. When the device is connected to the USB flash drive, long press it for 2 seconds to start capturing packets and long press it for 2 seconds again to stop capturing packets.</li> </ul>
16	On-hook Key	<ul style="list-style-type: none"> <li>• End a call or exit a conference call.</li> <li>• Return to the idle screen.</li> </ul>
17	Keypad	<ul style="list-style-type: none"> <li>• Enter digits.</li> <li>• Go to the pre-dialing screen.</li> </ul>
18	Character Key	Enter the special characters: .@*.
19	Pound key	Enter the pound key (#).

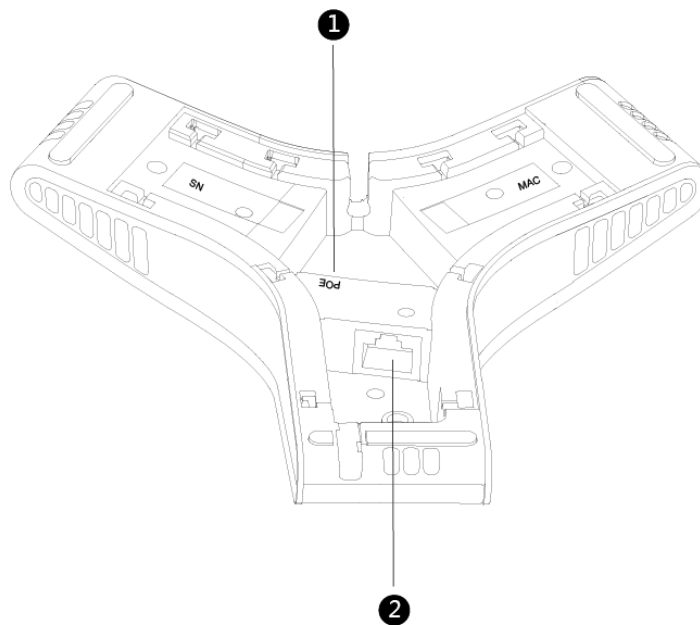
**Related information**

[Using VCR11 Remote Control](#)

**Hardware of VCM34****Front Panel of VCM34**



**Rear Panel of VCM34**

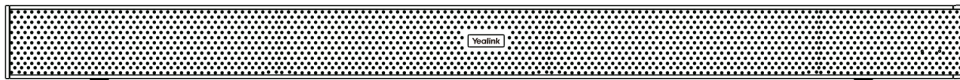


	Name	Description
1	PoE	It is used to connect VCM34 to the VC Hub/Phone port on the video conferencing system.
2	Internet	It is used to connect VCM34.

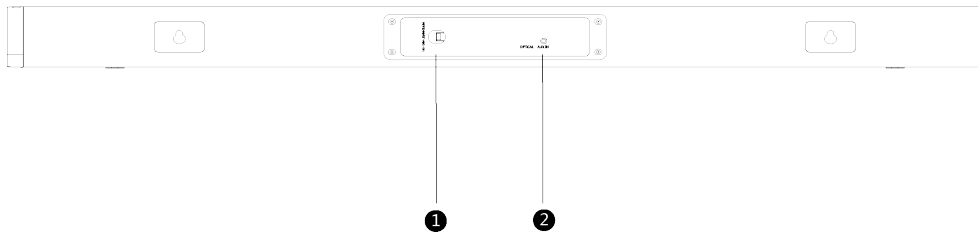
**Hardware of MSpeaker**

**Front Panel of MSpeaker**





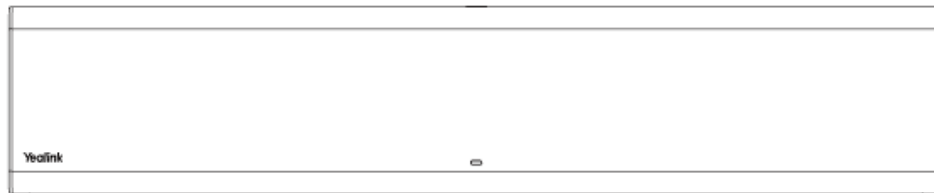
**Rear Panel of MSpeaker**



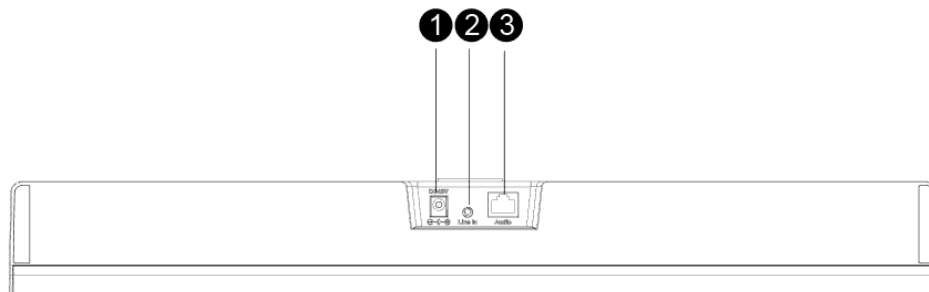
	Name	Description
1	Power Input	It is used to connect MSpeaker to the power adapter.
2	AUX In	It is used to connect MSpeaker to VC800 Line Out Port as an audio input.

**Hardware of MSpeaker II**

**Front Panel of MSpeaker**



**Rear Panel of MSpeaker**



	Name	Description
1	Power Input	It is used to connect MSpeaker II to the power adapter.
2	Line In	It is used to connect MSpeaker II to the Line Out Port of the endpoint as an audio input.
3	Audio Port	It is used to connect MSpeaker II to the VC Hub/phone Port of the endpoint as an audio input.

## LED Instructions

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You can know the system status by viewing the LED light.

- [LED Instructions of VC880/VC800/VC500/VC200/PVT980/PVT950](#)
- [Power Indicator LED of VP59](#)
- [Camera Indicator LED of VP59](#)
- [LED Instructions of VCC22 Video Conferencing Camera](#)
- [LED Instructions of CTP20](#)
- [Mute Indicator LED of CP960 Conference Phone](#)
- [Mute Indicator LED of CPE90 Wired Expansion Microphones](#)
- [LED Instructions of CPW90-BT Bluetooth Wireless Microphones](#)
- [LED Instructions of WPP20 Wireless Presentation Pod](#)

### LED Instructions of VC880/VC800/VC500/VC200/PVT980/PVT950

LED Status	Description
Solid green	The system is powered on.
Solid red	The system is in sleep mode.
Flashing red	The system is upgrading firmware.
Solid orange	System exception (for example: network unavailable, update failure).
Off	The system is powered off, or is not connected to the power adapter.

### Power Indicator LED of VP59

LED Status	Description
Solid red	The phone is initializing.
Fast flashing red (0.3s)	The phone is ringing.
Slowly flashing red (1s)	The phone receives a missed call.
Solid red for 0.5s and off for 3s alternately	The phone is in power-saving mode.

### Camera Indicator LED of VP59

LED Status	Description
Solid green	The phone is powered on and the camera is available. The camera is idle. The phone receives an audio-only call.
Fast flashing green	The phone receives a video call.
Solid red	There is an active video call.

LED Status	Description
Slowly flashing red	The shutter switch is open, but the local video is disabled during a video call.
Off	The phone is powered off. The camera is not properly connected to the phone. The shutter switch is closed.

### LED Instructions of VCC22 Video Conferencing Camera

LED Status	Description
Solid green	The VC880/VC800/PVT980 system is powered on.
	The VC880/VC800/PVT980 is upgrading firmware.
	The VCC22 video conferencing camera is working.
Solid red	The VC880/VC800/PVT980 system is in sleep mode.
	The VCC22 video conferencing camera is disabled.
Flashing red	The VCC22 video conferencing camera is upgrading firmware.
Solid orange	The VCC22 video conferencing camera is not selected.
Off	The VCC22 video conferencing camera is not connected to the PoE switch.

### LED Instructions of CTP20

LED Status	Description
Solid green	VCS codec is powered on.
Solid red	CTP20 is in sleep mode.
Solid orange	CTP20 is not connected to VCS codec.

### Mute Indicator LED of CP960 Conference Phone

LED Status	Description
Solid red	The CP960 conference phone is initializing.
	The CP960 conference phone is muted.
Flashing red	The CP960 conference phone is ringing.
Solid green	The CP960 conference phone is placing a call.
	The CP960 conference phone is in a call and unmuted.
Off	The CP960 conference phone is idle.
	The CP960 conference phone is disconnected to the video conferencing system.

## Mute Indicator LED of CPE90 Wired Expansion Microphones

LED Status	Description
Solid red	The CP960 conference phone is muted.
Flashing red	The CP960 conference phone is ringing.
Solid green	The CP960 conference phone is placing a call.
	The CP960 conference phone is in a call and unmuted.
Off	The CP960 conference phone is idle.
	The CPE90 is disconnected to CP960 Conference Phone.

## LED Instructions of CPW90-BT Bluetooth Wireless Microphones

- [Battery Indicator LED](#)
- [Mute Indicator LED](#)

### Battery Indicator LED

LED Status	Description
Solid green for one second and then off	The CPW90-BT is powered on.
Solid green for 3 seconds and then off	The CPW90-BT is in the idle mode.
Solid green	The CPW90-BT is fully charged.
Solid red	The CPW90-BT is being charged.
Fast flashing red 3 times and then off	The battery capacity is too low to turn on the CPW90-BT.
Slowly flashing red	The battery capacity is less than 10%.
Off	If you tap the mute button and the power LED indicator on the CPW90-BT is still off, it means the CPW90-BT is powered off.

### Mute Indicator LED

LED Status	Description
Slowly flashing yellow	The CPW90-BT is searching for signal.
Fast flashing yellow	The CPW90-BT is in the pairing mode.
Solid red	The system is muted.
Solid green	The system can pick voice.
Slowly flashing red	The system is receiving an incoming call.
Flashing red and green alternately	The VCS is searching for the CPW90-BT which has registered with it.
Off	The CPW90-BT is in the idle mode.

## LED Instructions of WPP20 Wireless Presentation Pod

LED Status	Description
Fast flashing green	The WPP20 is starting up.
	The WPP20 is trying to pair with the video conferencing system.
	The WPP20 is plugged into the video conferencing system, and firmware update is in progress.
	The WPP20 is plugged into the video conferencing system, and the WPP20 is updating Wi-Fi profile.
Slowly flashing green	The WPP20 is paired with the video conferencing system successfully, but you are not sharing content.
Solid green	The WPP20 is paired with the video conferencing system successfully, and you are sharing content.
	Firmware update is done.
	Wi-Fi profile update is done.
Slowly flashing red	The WPP20 cannot find or connect to the video conferencing system in 10 seconds after start-up.
	The WPP20 pairs to the video conferencing system successfully, but it does not detect that the Yealink Wireless Presentation Pod software is running on your PC.
	Yealink Wireless Presentation Pod software is turned off.
	Firmware update fails.
	Wi-Fi profile update fails.


## Powering on and off

- [Powering on VC880/VC800/VC500/VC200/PVT980/PVT950](#)
- [Powering off VC880/VC800/VC500/VC200/PVT980/PVT950](#)
- [Powering on or Powering off VP59](#)
- [Initialization Process Overview](#)

### Powering on VC880/VC800/VC500/VC200/PVT980/PVT950

Your system starts up automatically after you connect an electrical supply. If you power off the system using the remote control, do the following to power it on.


#### Procedure

On your remote control, press .

Your system is powered on successfully, and the LED indicator glows green.

### Powering off VC880/VC800/VC500/VC200/PVT980/PVT950

#### Procedure

1. On your remote control, press .

2. Select **Shut down** and then press OK key.  
The system is powered off immediately, and the LED indicator goes out.

## Powering on or Powering off VP59

VP59 is powered on automatically after you connect an electrical supply, and it is powered off when you disconnect an electrical supply.

## Initialization Process Overview

Once connected to the network and an electrical supply, the system begins initializing.

- [Loading the ROM File](#)
- [Configuring the VLAN](#)
- [Querying the DHCP Server](#)

### Loading the ROM File

The ROM file, came with the system, is stored in the system flash memory. During initialization, the system runs a bootstrap loader that loads and executes the ROM file.

### Configuring the VLAN

If you connect the system to a switch, the switch notifies the system of the VLAN information defined on the switch. The system can then proceed with the DHCP request for its network settings (if using DHCP).

### Querying the DHCP Server

The system is capable of querying a DHCP (Dynamic Host Configuration Protocol) server. After establishing network connectivity, the system can obtain the following network parameters from the DHCP server during initialization:

- IP Address
- Subnet Mask
- Default Gateway
- Primary DNS (Domain Name Server)
- Secondary DNS

By default, the system obtains these parameters from a DHCPv4. If the DHCP server does not supply some of the above parameters, you can configure them manually.

## Running the Setup Wizard

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The setup wizard appears on the monitor when you initialize the system for the first time or when you reset the system to factory. You can run the setup via your remote control or CTP20. After selecting the language, configure the following features according to the setup wizard.

Menu	Description
<b>Language</b>	Set the language displayed on the CP960 conference phone/CTP20/the monitor. The default language is Simplified Chinese.
<b>Date &amp; Time</b>	The system obtains the time and date from the NTP server automatically by default. You can also configure the time and date manually.
<b>Sitename Icon</b>	Edit the site name.

Menu	Description
<b>Password</b>	The default administrator password is “0000”. For security reasons, you should change it as soon as possible. The new password must be at least six characters, preferably mixing with digits and letters.
<b>Firewall Port Mapping</b>	Displays the firewall port mapping information.
<b>Wired Network</b>	Your system can obtain the network settings from a Dynamic Host Configuration Protocol (DHCP) server. You can also configure network settings manually.
<b>Wi-Fi</b> (Only applicable to VC200/ VP59)	Connects to Wi-Fi.
<b>Identity</b>	Optional: Log into the video conferencing platform.  Your system supports Yealink VC Cloud/Yealink Meeting Server/StarLeaf/Zoom/Pexip/BlueJeans/EasyMeet/Videxio/Custom platform.

## Configuration Methods

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To configure your system, you can use the remote control, CTP20, CP960, or the web user interface.

To configure VP59, you can configure it directly or use the web user interface.

- [Using Web User Interface](#)
- [Using VCR11 Remote Control](#)
- [Using CTP20 Touch Panel](#)
- [Using CP960 Conference Phone](#)

### Using Web User Interface

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A web-based interface is especially useful for remote configuration. You can use the web user interface to perform most of the calling and configuration tasks.

- [Logging into the Web User Interface](#)
- [Configuring the Web Server Type](#)
- [User and Administrator Account Login](#)

### Logging into the Web User Interface

To log on to your device web user interface, you must open a web browser and enter the device IP address. Login credentials are required for accessing the web user interface. The default administrator username is “admin” (case-sensitive) and password is “0000”.


#### About this task



**Note:** We recommend that you use the Chrome or Internet Explorer 11 to access the web user interface. Some features may not work properly if you are using other or older browsers.

## Procedure

1. Open a web browser and enter the device IP address in the address bar, for example: http (s): //10.82.24.11/.  
If your device is an IPv6 IP address, enter http (s): // [IP address] /.
2. Enter the administrator username and the password.
3. Click **Login**.

 **Attention:** The web user interface will be locked after 3 failed login attempts. Please contact your support team or try again 3 minutes later.

## Related tasks


[Configuring the Web Server Type](#)

[User and Administrator Account Login](#)

## Configuring the Web Server Type

The web server type determines the protocol used for accessing the web user interface of the system. Both HTTP and HTTPS are available. The HTTPS ensures that the configuration of all login information (such as user names and passwords) is transmitted using an encrypted channel. If you disable the desired protocol, you cannot access the web user interface via this protocol.

## Procedure

1. Do one of the following:
  - On your web user interface, go to **Network > Advanced > Web Server**.
  - On your VCS:
    - On your VC880/VC800/VC500/PVT980/PVT950, go to **More > Setting > Advanced > Advanced Network > Web Server Type**.
    - On your VC200, go to **More > Network > Wired Network > Advanced Network > Web Server Type**.
    - On your VP59, tap **Setting > Advanced > Advanced Network > Web Server Type**.
    - On your CTP20, tap  > **Setting > Network > Host Network > Advanced Network > Web Server Type**.
2. Configure and save the following settings:

Parameter	Description	Configuration Method
<b>HTTP</b>	Enable or disable the user to access the web user interface via HTTP. <b>Default:</b> On.	Web user interface Endpoint CTP20
<b>HTTP Port</b>	Specify the HTTP port for the user to access the web user interface. <b>Valid value:</b> Any integer from 1 to 65535. Make sure that the configured port is available. <b>Default:</b> 80	Web user interface
<b>HTTPS</b>	Enable or disable the user to access the web user interface via HTTPS. <b>Default:</b> On.	Web user interface Endpoint CTP20



Parameter	Description	Configuration Method
<b>HTTPS Port</b>	Specify the HTTPS port for the user to access the web user interface. <b>Valid value:</b> Any integer from 1 to 65535. Make sure that the configured port is available. <b>Default:</b> 443	Web user interface
<b>HTTP &amp; HTTPS</b>	Enable or disable the user to access the web user interface via HTTP and HTTPS. <b>Default:</b> On.	CTP20 Endpoint (VP59)
<b>Disabled</b>	Disable the user to access the web user interface via HTTP and HTTPS. <b>Default:</b> Disabled.	CTP20 Endpoint (VP59)

## User and Administrator Account Login


You can configure the system features via the web user interface as an administrator or a user. For an administrator, you can configure all settings; for a user, you can only configure some basic settings and contact settings.

- [Configuring an Administrator Password](#)
- [Enabling the User Role](#)

### Configuring an Administrator Password

The default administrator name is “admin” and the administrator password is “0000”. Only the user with the administrator permission can change the password. For security reasons, you should change them as soon as possible. The administrator password for the system supports ASCII characters 32-126 (0x20-0x7E).

### Procedure

1. Do one of the following:
  - On your web user interface, go to **Security > Security**.
  - On your VCS, go to **More > Setting > Advanced > Password Reset**.  
On your VP59, tap **Setting > Advanced > Password Reset**.
  - On your CTP20, tap  > **Setting > Advanced > System > Password Reset**.
2. Configure and save the following settings:

Parameter	Description	Configuration Method
<b>User Type</b>	Select the administrator.	Web user interface
<b>Old Password/Current Password</b>	Enters the old administrator password. <b>Default:</b> “0000 ”.	Web user interface Endpoint CTP20
<b>New Password</b>	Configure a new administrator password. <b>Note:</b> You can leave the password blank.	Web user interface Endpoint CTP20

Parameter	Description	Configuration Method
<b>Confirm Password</b>	Enters the new configured administrator password. <b>Note:</b> The entered password must be the same as the one configured by the parameter "New Password".	Web user interface Endpoint CTP20

### Enabling the User Role

If you enable the user role, users can access basic configurations such as contacts. The default user name is "user" and the password is "1234".

#### Procedure

1. On your web user interface, go to **Security > Security**.
2. Configure and save the following settings:

Parameter	Description	Configuration Method
<b>User Mode</b>	Select User.	Web user interface
<b>User Mode</b>	Enables the user role. <b>Default:</b> Disabled.	Web user interface
<b>User Password (New Password and Confirm Password)</b>	Configure a user password. <b>Note:</b> the system supports ASCII characters 32-126 (0x20-0x7E). You can also leave the password blank.	Web user interface

## Using VCR11 Remote Control

You can use the real remote control or the virtual remote control to configure and use the system. You can disable the remote control if it is not needed or not available.

VCR11 Remote Control is not applicable to VP59.

- [Using the Virtual Remote Control](#)
- [Customizing the Key Type](#)
- [Disabling Remote Control Keys](#)
- [Disabling the Remote Control](#)


## Using the Virtual Remote Control

You can use the virtual remote control via your web user interface to control your system.

#### Procedure

1. On your web user interface, go to **Home > Remote Control**.  
The virtual remote control appears.
2. Click the corresponding keys on the remote control to control the system.
3. Click **Remote Control** to close the virtual remote control.

## Customizing the Key Type

You can configure the custom key () on the remote control to the desired functions as needed.

### Procedure

1. On your web user interface, go to **Setting > Remote Control > Remote Control > Custom Key Type**.
2. Configure and save the following settings:

Parameter	Description	Configuration Method
<b>Custom Key Type</b>	<p>Specify a feature for the custom key on the remote control.</p> <ul style="list-style-type: none"> <li>• <b>Input:</b> press to select the video input source.</li> <li>• <b>ScreenShot:</b> press to capture screen.</li> <li>• <b>Mute Speaker:</b> press to mute or unmute the speaker.</li> <li>• <b>Presentation:</b> press to start or stop presentation.</li> <li>• <b>Preset:</b> press to configure the presets during a call.</li> </ul> <p><b>Default:</b> Presentation.</p>	Web user interface

## Disabling Remote Control Keys

All keys on the remote control are enabled by default. If you do not want to use some keys on the remote control, you can disable them.

### Procedure

1. On your web user interface, go to **Setting > Remote Control**.
2. In the **Enable Remote Control Key** field, turn off the corresponding key.
3. Click **Confirm**.

## Disabling the Remote Control

The remote control feature is enabled by default. If you do not need to use remote control to control the system, you can disable it.

### Procedure

1. On your web user interface, go to **Setting > General > General Information**.
2. Configure and save the following settings:

Parameter	Description	Configuration Method
<b>Remote Control Enabled</b>	<p>Disable the remote control.</p> <p><b>Note:</b> the default value is On.</p> <p>If you select <b>Off</b>, you cannot use the real remote control or the virtual remote control to control the system.</p>	Web user interface

## Using CTP20 Touch Panel

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You can use CTP20 Touch Panel to configure and control PVT980/PVT950/VC880/VC800/VC500/VC200. For more information about how to use CTP20 Touch Panel, refer to [Yealink CTP20 Quick Start Guide](#).

## Using CP960 Conference Phone

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You can use the CP960 conference phone to perform calling and some configuration tasks. For more information about how to use CP960 conference phone, refer to [Yealink CP960 HD IP Conference Phone Quick Reference Guide](#).

# Device Type Licenses and Multipoint Licenses

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- [Licenses](#)
- [Multipoint Licenses](#)
- [Importing Device Type License/Multipoint License](#)

## Licenses

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If your system is a demo machine, namely it is used by agents to demonstrate system functions to the customers. The monitor will prompt “DEMO ONLY, NOT FOR RESELL”. A demo machine supports 24-way calls (1 conference organizer and 24 participants). It is valid for one year. You can change the demo machine to be a normal machine by importing a device type license. You can get the device type license from Yealink technical support. After changing to a normal machine, the system supports 1 video call and 5 voice calls (1 conference organizer and 6 participants).

## Multipoint Licenses

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Only VC880/VC800/PVT980/PVT950 supports multipoint licenses. Only after importing multipoint license can VC880/VC800/PVT980/PVT950 be used to initiate multi-party video conferences.

Multipoint licenses are described as below:

Multipoint License Type	Maximum Connections	Description
VC500/VC200	One video call with a presentation and 5 voice calls (a conference organizer and 6 participants).	Multipoint video conferences are unsupported.
VC880/VC800/PVT980/PVT950 without a multipoint license		
VC880/VC800 with a trial multipoint license	24 video calls with a presentation (a conference moderator and 24 participants)	<p><b>Period of validity:</b> 15-day free trial.</p> <p>VC880/VC800 models can use this trial multipoint license. You can download it from Yealink website.</p>

Multipoint License Type	Maximum Connections	Description
VC880/VC800/PVT980/PVT950 with an 8-way multipoint license	8 video calls with a presentation and 5 voice calls (a conference moderator and 13 participants).	<b>Period of validity:</b> eternal. One worldwide unique license for every VC880/VC800/PVT980/PVT950 and the license cannot be used by other devices. You can purchase the license from Yealink resellers by providing the MAC address of your VC880/VC800/PVT980/PVT950.
VC880/VC800/PVT980/PVT950 with a 16-way multipoint license	16-way video call with a presentation and 5-way call (a conference moderator and 21 participants).	
VC880/VC800/PVT980/PVT950 with a 24-way multipoint license	24 video calls with a presentation (a conference moderator and 24 participants)	

## Importing Device Type License/Multipoint License

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### Procedure

1. On your web user interface, go to **Security > License**.
2. Click the **Load License File** field.
3. Select the device type license/multipoint license from your local system.

The file format must be \*.dat.

4. Click **Upload**.

### Related tasks

[Viewing the Device Type](#)

## Traditional Deployment Methods

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If you do not use cloud-based service, you can choose the traditional deployment method to deploy your VCS.

- [Public IP Configuration](#)
- [NAT](#)
- [STUN](#)
- [H.460](#)
- [Intelligent Traversal](#)
- [VPN](#)

### Public IP Configuration

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If you have a high expectation for the audio and video quality, you can connect your video conferencing system to the Internet directly.



This deployment method involves a simple setup process but creates a stable network environment. However, it is more expensive due to leased line costs. This method is often used in the head office.

## NAT

Many application-layer protocols, for example multimedia protocols (H.323/SIP), have the address or the port information. The address and port information included in the H.323/SIP protocol cannot be translated via the traditional NAT method, which leads to communication problems.

ALG (application layer gateway) feature on the router/firewall can help translate the address and the port of application-layer protocols, which guarantees the accuracy of the communication in the application layer.

If your router does not support ALG feature, you should configure port forwarding on your router first, and then enable static NAT feature on your system. It can help convert the internal network address and port carried in the H.323/SIP payload to the public network address and port when communicating with the internal and external networks.



### Note:

If H.460 firewall traversal is enabled on the system, the system will automatically ignore the static NAT settings for H.323 calls. For more information, refer to [Configuring H.460 for H.323 Protocol](#).

- [Port Forwarding](#)
- [Configuring NAT](#)
- [Enabling Static NAT Feature for SIP Protocol\(SIP Account and SIP IP Call\)](#)
- [Configuring Route Traversal](#)

## Port Forwarding

The most common scenario is deploying the VCS in an intranet (behind a firewall). You must assign a static private IP address to the VCS. In the meantime, do port forwarding on the firewall.

Port forwarding is an application of network address translation (NAT) that redirects a communication request from one address and port number combination to another while the packets are traversing a network gateway, such as a router or firewall.

To receive a public-to-private call, you must forward the following ports to the public network on your router or firewall.

Description	Port Range	Port Type
H.323	1719-1720	UDP/TCP
Control and media for audio, video, content, and data/FECC	50000-51000	TCP/UDP
Web management port (optional)	443	TCP
SIP (optional)	5060-5061	TCP/UDP



**Note:** Forwarding the ports to the public network may cause security problems. You can prevent the endpoint from being attacked by adding a blacklist.

**Related tasks**[Adding Meeting Blacklist](#)**Configuring NAT**

You can use H.323 protocol to make private-to-public calls after you configure the port forwarding and enable the static NAT feature. If you want to use SIP protocol to make private-to-public calls, you also need to enable the static NAT settings for the SIP protocol.

**Procedure**

1. Do one of the following:

- On your web user interface, go to **Network > NAT/Firewall > NAT Configuration**.
- On your VCS:

On your VC880/VC800/VC500/PVT980/PVT950, go to **More > Setting > Advanced > NAT/Firewall > NAT**.

On your VC200, go to **More > Network > Wired Network > NAT/Firewall > NAT**.

On your VP59, tap **Setting > Advanced > NAT/Firewall > NAT**.

- On your CTP20, tap  > **Setting > Network > Host Network > NAT/Firewall > NAT**.

2. Configure and save the following settings:


Parameter	Description	Configuration Method
<b>Port Type</b>	Configure the static NAT type. <ul style="list-style-type: none"> <li>• <b>Disabled</b>—the system does not use the NAT feature.</li> <li>• <b>Manual</b>—the system uses the manually configured NAT public address.</li> <li>• <b>Auto</b>—the system obtains the NAT public address from the Yealink-supplied server.</li> </ul> <b>Default:</b> Disabled.	Web user interface Endpoint CTP20
<b>NAT Public IP Address/Public IP Address</b>	<ul style="list-style-type: none"> <li>• Displays the NAT public address automatically obtained from the Yealink-supplied server if the static NAT is set to Auto.</li> <li>• Configure the NAT public address for the system if the static NAT is set to Manual.</li> </ul>	Web user interface Endpoint CTP20

**Related tasks**[Enabling Static NAT Feature for SIP Protocol\(SIP Account and SIP IP Call\)](#)**Related information**[Port Forwarding](#)

## Enabling Static NAT Feature for SIP Protocol(SIP Account and SIP IP Call)

If you want to make private-to-public calls via SIP protocol (SIP account and SIP IP call), you need enable static NAT feature for SIP protocol.

### Procedure

- Do one of the following:
  - On your web user interface, go to **Account > SIP Account/SIP IP Call > NAT Traversal**.
  - On your VCS, go to **More > Setting > Advanced > SIP IP Call Out > NAT Traversal**.  
On your VP59, tap **Setting > Advanced > SIP IP Call > NAT Traversal**.
  - On your CTP20, tap  > **Setting > Advanced > Account > SIP IP Call > NAT Traversal**.
- Configure and save the following settings:

Parameter	Description	Configuration Method
<b>NAT Traversal</b>	Select the static NAT.	Web user interface Endpoint CTP20

### Related tasks

[Configuring NAT](#)

### Related information

[Port Forwarding](#)

## Configuring Route Traversal

### About this task

In the Intranet, if there is a secondary router connected to the first router, the VCS connected to each router may not be able to communicate properly. In this situation, you can configure static NAT and enforce the route traversal feature for the VCS connected to the secondary router, so that the NAT works even though both devices are in the Intranet.

### Attention:

If you enable the route traversal feature forcibly for the VCS connected to the secondary router, the VCS may fail to call other VCS connected to the same router, because the NAT address replaces the private address.

### Procedure

- Do one of the following:
  - On your web user interface, go to **Network > NAT/Firewall > NAT Configuration**.
  - On your VCS:
    - On your VC880/VC800/VC500/PVT980/PVT950, go to **More > Setting > Advanced > NAT/Firewall > NAT**.
    - On your VC200, go to **More > Network > Wired Network > NAT/Firewall > NAT**.
    - On your VP59, tap **Setting > Advanced > NAT/Firewall > NAT**.



2. Configure and save the following settings:

Parameter	Description	Configuration Method
<b>Static NAT/Type</b>	Select <b>Manual/Manual Settings</b> , and then configure the NAT address manually.	Web user interface Endpoint
<b>NAT Public IP Address/Public IP Address</b>	Configure the NAT address for the system manually.	Web user interface Endpoint
<b>Route Traversal</b>	<p>Configure the route traversal type.</p> <ul style="list-style-type: none"> <li>• <b>Auto</b>—NAT works only when making a call to a public address. NAT does not work when making a call to a private address.</li> <li>• <b>Compulsion</b>—NAT works whatever you are making a call to a public address or private address.</li> </ul> <p><b>Default:</b> Auto.</p>	Web user interface

3. Apply the route traversal settings to the SIP protocol.

#### Related tasks

[Enabling Static NAT Feature for SIP Protocol\(SIP Account and SIP IP Call\)](#)

## STUN

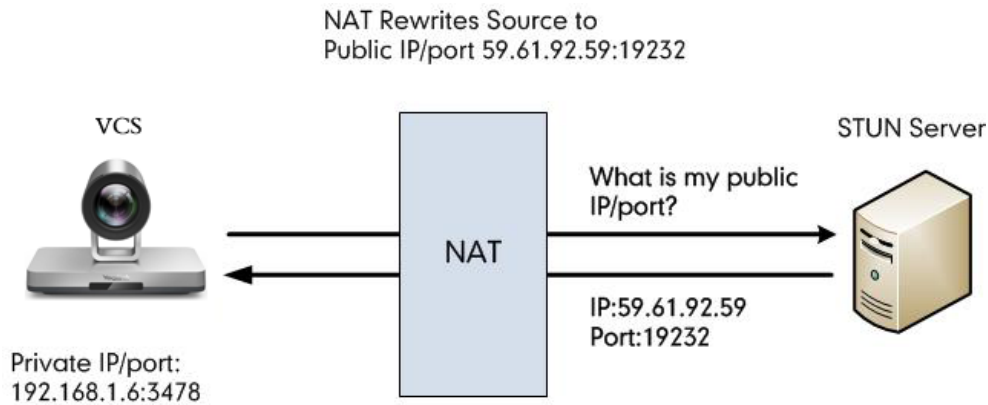
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If you want to use the VCS in the intranet to place calls to the VCS in the extranet, you can use STUN server, as well as configure ALG on the router or enable static NAT on the system.

STUN is a client/server protocol, which allows the system behind a NAT to discover the NAT presence firstly, and the mapped public IP address, and then the port number that the NAT has allocated for the UDP flows to remote parties. Those information is used to establish UDP communication between two system behind the NATs.

STUN is a client/server protocol. The system works as a STUN client, sending exploratory STUN messages to the STUN server. After that, the STUN server uses those messages to determine the public IP address and the port (which is used to connect the public network to the intranet), and then informs the client. For more information, refer to [RFC3489](#).

Capturing packets after you enable the STUN feature, you can find that the VCS sends Binding Request to the STUN server, and then the mapped IP address and the port are placed in the Binding Response: Binding Success Response MAPPED-ADDRESS: 59.61.92.59:19232



The system will send SIP message using the mapped IP address and the port.

No.	Time	Source	Destination	Protocol	Length	Info
444	18.587818	192.168.1.6	218.107.220.74	STUN	62	Binding Request
447	18.711349	218.107.220.74	192.168.1.6	STUN	98	Binding Success Response MAPPED-ADDRESS: 59.61.92.59:19232



**Note:**

STUN does not enable the incoming TCP connections through NAT, so H.323 is not supported. And STUN does not support the incoming UDP packets through symmetric NATs.

- [Configuring STUN](#)
- [Enabling STUN Feature for SIP Protocol](#)

## Configuring STUN

### Procedure

1. Do one of the following:

- On your web user interface, go to **Network > NAT/Firewall > STUN Config**.
- On your VCS:

On your VC880/VC800/VC500/PVT980/PVT950, go to **More > Setting > Advanced > NAT/Firewall > STUN Config**.

On your VC200, go to **More > Network > Wired Network > NAT/Firewall > STUN Config**.

On your VP59, tap **Setting > Advanced > NAT/Firewall > STUN Config**.

- On your CTP20, tap > **Setting > Network > Host Network > NAT/Firewall > STUN Config**.

2. Configure and save the following settings:


Parameter	Description	Configuration Method
<b>Active/STUN Active</b>	Enable or disable the STUN (Simple Traversal of UDP over NATs) feature on the system. <b>Default:</b> Off.	Web user interface Endpoint CTP20
<b>STUN Server</b>	Configure the IP address or the domain name of the STUN (Simple Traversal of UDP over NATs) server. <b>Note:</b> the default value is blank.	Web user interface Endpoint CTP20

Parameter	Description	Configuration Method
<b>STUN Port</b>	Configure the port of the STUN (Simple Traversal of UDP over NATs) server. <b>Default:</b> 3478.	Web user interface Endpoint CTP20

## Enabling STUN Feature for SIP Protocol

If you want to make private-to-public calls via SIP protocol (SIP account and SIP IP call), you can enable STUN feature for SIP protocol.

### Procedure

- Do one of the following:
  - On your web user interface, go to **Account > SIP Account/SIP IP Call > NAT Traversal**.
  - On your VCS, go to **More > Setting > Advanced > SIP IP Call Out**.
  - On your VP59, tap **Setting > Advanced > SIP IP Call > NAT Traversal**.
  - On your CTP20, tap  > **Setting > Advanced > Account > SIP IP Call > NAT Traversal**.
- Configure and save the following settings:

Parameter	Description	Configuration Method
<b>NAT Traversal/ NAT Type</b>	Select STUN.	Web user interface Endpoint CTP20

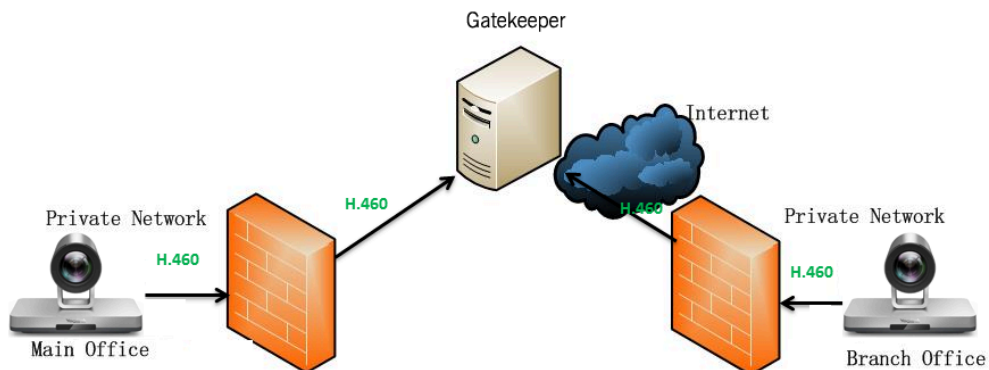
### Related tasks

[Setting SIP Account/SIP IP Call](#)

[Configuring NAT](#)

## H.460

VCS allows the firewall traversal of H.323 calls via H.460 protocols. To use this feature, make sure your gatekeeper supports H.460 feature.



**Note:**

If you configure H.323 settings and enable H.460, the system ignores the static NAT settings automatically.


- [Configuring H.460 for H.323 Protocol](#)

## Configuring H.460 for H.323 Protocol

If you want to make private-to-public calls via H.323 protocol, you can enable H.460 feature for H.323 protocol.

### Procedure

1. Do one of the following:

- On your web user interface, go to **Account > H.323 > H.460 Active**.
- On your VCS, go to **More > Setting > Advanced > H.323 > H.460**.  
On your VP59, tap **Setting > Advanced > H.323 > H.460**.
- On your CTP20, tap  > **Setting > Advanced > Account > H.323 > H.460**.

2. Configure and save the following settings:

Parameter	Description	Configuration Method
<b>H.460 Active</b>	Enable or disable H.460 firewall traversal for H.323 calls. <b>Default:</b> Off.	Web user interface Endpoint CTP20

### Related tasks

[Setting H. 323 Account/H.323 IP Call](#)

## Intelligent Traversal

Some branch offices lack IT professionals, which means that professional network configuration (for example, the port forwarding) may be impossible. To solve this issue, Intelligent Traversal allows you to simply deploy your VCS in the intranet, and assign an IP address to VCS, which can be used to access the public network. After that you can place calls to the VCS in the public network via your intranet VCS.

This type of deployment is simple to deploy, plug and play, and does not require complex network configuration. However, this method is not applicable to the incoming calls.

- [Configuring Audio & Video Intelligent Traversal](#)
- [Configuring Data Intelligent Traversal](#)

## Configuring Audio & Video Intelligent Traversal

### About this task

When a VCS in the intranet calls the VCS in the public network, the audio & video streams send by the VCS in the intranet may carry the intranet IP addresses, as a result, the VCS in the public network fails to send the audio& video streams to the VCS in the intranet. Besides, the problem of one-way audio or video and no image of the VCS in the public network may occurs to the VCS in the intranet. The above problems can be solved by the feature of audio & video intelligent traversal.

This feature allows the VCS in the public network to check the media source address and the port of incoming RTP packets, and then send the RTP packets back to the address where the incoming RTP packet comes from rather than the address provided in the Session Description Protocol (SDP).

**The following example illustrates a scenario about using the audio & video intelligent traversal:**

The VCS A locates in the intranet with the feature of audio & video intelligent traversal enabled, and the router does not support the ALG feature. The VCS B locates in the public network. A calls B, and then A sends the RTP packets to the B.

- If B disables the audio & video intelligent traversal feature, B will send RTP data to the negotiated IP address of A (private IP address provided in the Session Description Protocol), as a result, A may see black screen.
- If B enables the audio & video intelligent traversal feature, B sends back RTP packets to the address where incoming RTP packet comes from. A and B can communicate normally.

#### Procedure

1. On your web user interface, go to **Network > NAT/Firewall > Audio&Video Intelligent Traversal**.
2. Configure and save the following settings:

Parameter	Description	Configuration Method
<b>Audio&amp;Video Intelligent Traversal</b>	Enable or disable the audio & video media stream to traverse firewall.  <b>Default:</b> On.	Web user interface

## Configuring Data Intelligent Traversal

#### About this task

When VCS in the Intranet calls the VCS in the public network, the VCS in the Intranet may fail to receive data (for example: PC content and FECC protocol) from the public network. You can use data intelligent traversal to solve these problems.

#### The following example illustrates a scenario about using data intelligent traversal:

The VCS A locates in the Intranet and the router supports the ALG feature. The VCS B locates in the public network.

The ALG feature supported by the router can temporarily map the port to a public port, which lasts 30 seconds by default. If the VCS B in the public network does not share content within 30 seconds, the mapped port will change, so that the VCS B may fail to share content with VCS A later. To solve this problem, enable the data intelligent traversal for VCS A, the VCS A will send keep-alive messages at regular intervals to keep the port open. Therefore, the VCS B can share content normally.

#### Procedure

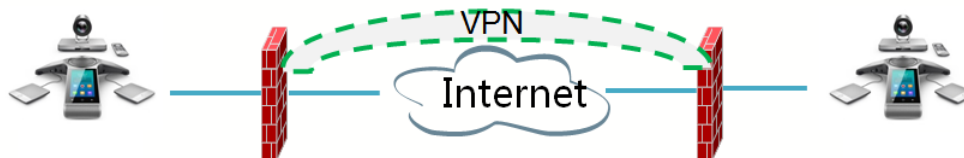
1. On your web user interface, go to **Network > NAT/Firewall > Data Intelligent Traversal**.
2. Configure and save the following settings:

Parameter	Description	Configuration Method
<b>Data Intelligent Traversal</b>	Enable or disable the PC content and FECC protocol to traverse firewall.  <b>Default:</b> On.	Web user interface

## VPN

The VPN (Virtual Private Network) technology establishes a private tunnel on the public network through key exchange, encapsulation, authentication and encryption, to ensure the integrity, privacy, and validity of the transmitted data. VCS uses OpenVPN to achieve VPN feature. To prevent disclosure of private information, tunnel endpoints must authenticate each other before the secure VPN tunnel is established. After you configure VPN feature on the system, the system will act as a VPN client and uses the certificates to authenticate with the VPN server.

For more information, refer to [OpenVPN Feature on Yealink IP Phones](#).



- [Related VPN Files](#)
- [Configuring VPN](#)

### Related VPN Files

To use VPN, you should upload the compressed package of VPN-related files to the system in advance. The file format of the compressed package must be \*.tar. The related VPN files are certificates (ca.crt and client.crt), key (client.key), and the configuration file (vpn.cnf) of the VPN client.


The following table lists the directories of the OpenVPN certificates, the key and the configuration file:

VPN files	Description	Unified Directories
ca.crt	CA certificate	/config/openvpn/keys/ca.crt
client.crt	Client certificate	/config/openvpn/keys/client.crt
client.key	Private key of the client	/config/openvpn/keys/client.key

### Configuring VPN

#### Procedure

1. Do one of the following:

- On your web user interface, go to **Network > Advanced > VPN**.
- On your VCS:
  - On your VC880/VC800/VC500/PVT980/PVT950, go to **More > Setting > Advanced > Advanced Network > VPN**.
  - On your VC200, go to **More > Network > Wired Network > Advanced Network > VPN**.
  - On your VP59, tap **Setting > Advanced > Advanced Network > VPN**.
- On your CTP20, tap  > **Setting > Network > Host Network > Advanced Network > VPN**.

2. Configure and save the following settings:

Parameter	Description	Configuration Method
<b>Active/VPN</b>	<p>Enable or disable VPN feature on the system.</p> <p><b>Note:</b> the default value is Off.</p> <p>If you change this parameter, the system will reboot to make the change take effect.</p>	<p>Web user interface</p> <p>Endpoint</p> <p>CTP20</p>
<b>Upload VPN Config</b>	<p>Upload the TAR file that the VPN-related files are compressed in to the system.</p> <p>If you change this parameter, the system will reboot to make the change take effect.</p>	<p>Web user interface</p>

## Cloud Deployment Method

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When holding a video conference, customers may encounter several problems, such as no public IP address, weak network infrastructure, complicated firewall configuration, inefficient deployment and no traversal server.

Cloud-based technology drives positive changes in the way of organizational communication. With video conference platform, organizations can communicate easily because the public IP address and the complex network settings are unnecessary. Challenges such as infrastructure costs and interoperability are also eliminated. Both the head office and the branch offices can use the cloud deployment method. Besides, both the inbound and the outbound calls are available.

## Configuring Network Settings

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The following introduces how to configure network settings.

- [Configuring IPv4 or IPv6](#)
- [Wi-Fi](#)
- [Wireless Access Point](#)
- [Configuring DNS Server](#)
- [DHCP Options](#)
- [VLAN](#)
- [802.1x Authentication](#)
- [Enabling/Disabling the PC Port](#)
- [Network Speed and Duplex Mode](#)
- [Restricting Reserved Ports](#)
- [Quality of Service \(QoS\)](#)
- [Configuring MTU](#)
- [Configuring SNMP](#)

## Configuring IPv4 or IPv6

Yealink video conferencing system supports IPv4 addressing mode, IPv6 addressing mode, as well as the IPv4&IPv6 dual stack-addressing mode.



### Note:

Yealink video conferencing systems comply with the DHCPv4 specifications documented in [RFC 2131](#), and the DHCPv6 specifications documented in [RFC 3315](#).

- [Configuring IP Addressing Mode](#)
- [Configuring IPv4](#)
- [Configuring IPv6](#)

## Configuring IP Addressing Mode

### Procedure

1. Do one of the following:

- On your web user interface, go to **Network > LAN Configuration > Internet Port > IPv4/IPv6**.
- On your VCS:

On your VC880/VC800/VC500/PVT980/PVT950, go to **More > Setting > Advanced > Wired Network > IP Mode**.

On your VC200, go to **More > Network > Wired Network > IP Mode**.

On your VP59, go to **Setting > Advanced > Wired Network > IP Mode**.

- On your CTP20, tap > **Setting > Network > Host Network > Network > Wired Network > IP Mode**.

2. Configure and save the following settings:

Parameter	Description	Configuration Method
<b>Internet Port</b>	Configure the IP address mode. <b>Note:</b> the default mode is IPv4. If you change this parameter, the system will reboot to make the change take effect.	Web user interface Endpoint CTP20

## Configuring IPv4

After connected to the wired network, the system can obtain the IPv4 network settings from a Dynamic Host Configuration Protocol (DHCP) server if your network supports it. You can also configure IPv4 network settings manually.

### Before you begin

Make sure that your network mode is set to IPv4 or IPv4&IPv6.



**Procedure**

## 1. Do one of the following:

- On your web user interface, go to **Network > LAN Configuration > IPv4 Config.**
- On your VCS:

On your VC880/VC800/VC500/PVT980/PVT950, go to **More > Setting > Advanced > Wired Network > IPv4.**

On your VC200, go to **More > Network > Wired Network > IPv4.**

On your VP59, go to **Setting > Advanced > Wired Network > IPv4.**

- On your CTP20, tap  > **Setting > Network > Host Network > Network > Wired Network > IPv4.**

## 2. Configure and save the following settings:

Parameter	Description	Configuration Method
<b>DHCP</b>	<p>Enable or disable the system to obtain network settings from the DHCP server.</p> <p><b>Note:</b> the default value is On.</p> <p>If you change this parameter, the system will reboot to make the change take effect.</p>	<p>Web user interface</p> <p>Endpoint</p> <p>CTP20</p>
<b>Static IP</b>	<p>Enable or disable the system to use manually configured network settings.</p> <p><b>Note:</b> the default value is Off.</p> <p>If you change this parameter, the system will reboot to make the change take effect.</p>	<p>Web user interface</p>
<b>IP Address</b>	<p>Configure the IPv4 address assigned to the system.</p> <p><b>Note:</b> It is configurable only when the network type is selected as <b>Static IP</b>. If you change this parameter, the system will reboot to make the change take effect.</p>	<p>Web user interface</p> <p>Endpoint</p> <p>CTP20</p>
<b>Subnet Mask</b>	<p>Configure the subnet mask assigned to the system.</p> <p><b>Note:</b> It is configurable only when the network type is selected as <b>Static IP</b>.</p> <p>If you change this parameter, the system will reboot to make the change take effect.</p>	<p>Web user interface</p> <p>Endpoint</p> <p>CTP20</p>

Parameter	Description	Configuration Method
<b>Gateway/ Default Gateway</b>	<p>Configure the gateway assigned to the system.</p> <p><b>Note:</b> It is configurable only when the network type is selected as <b>Static IP</b>.</p> <p>If you change this parameter, the system will reboot to make the change take effect.</p>	<p>Web user interface</p> <p>Endpoint</p> <p>CTP20</p>
<b>Static DNS</b>	<p>Enable or disable DNS feature.</p> <p><b>Default:</b> Off.</p> <p>If you change this parameter, the system will reboot to make the change take effect.</p>	<p>Web user interface</p> <p>Endpoint</p> <p>CTP20</p>
<b>Primary DNS/Pri.DNS</b>	<p>Configure the primary DNS server assigned to the system.</p> <p><b>Note:</b> In the DHCP environment, it is configurable when the static DNS feature is enabled. If you change this parameter, the system will reboot to make the change take effect.</p>	<p>Web user interface</p> <p>Endpoint</p> <p>CTP20</p>
<b>Secondary DNS/Sec.DNS</b>	<p>Configure the secondary DNS server assigned to the system.</p> <p><b>Note:</b> In the DHCP environment, it is configurable when the static DNS feature is enabled. If you change this parameter, the system will reboot to make the change take effect.</p>	<p>Web user interface</p> <p>Endpoint</p> <p>CTP20</p>

## Configuring IPv6

The system can automatically obtain the network parameters via DHCPv6. You can also manually configure IPv6 network. Make sure that your network environment supports IPv6.

### Before you begin

Make sure that your network mode is set to IPv6 or IPv4&IPv6.

## Procedure

### 1. Do one of the following:

- On your web user interface, go to **Network > LAN ConfigurationIPv6 Config**.
- On your VCS:

On your VC880/VC800/VC500/PVT980/PVT950, go to **More > Setting > Advanced > Wired Network > IPv6**.

On your VC200, go to **More > Network > Wired Network > IPv6**.

On your VP59, go to **Setting > Advanced > Wired Network > IPv6**.

- On your CTP20, tap  > **Setting > Network > Host Network > Network > Wired Network > IPv6**.

### 2. Configure and save the following settings:

Parameter	Description	Configuration Method
<b>DHCP</b>	<p>Enable or disable the system to obtain network settings from the DHCP server.</p> <p><b>Note:</b> the default value is On.</p> <p>If you change this parameter, the system will reboot to make the change take effect.</p>	<p>Web user interface</p> <p>Endpoint</p> <p>CTP20</p>
<b>Static IP</b>	<p>Enable or disable the system to manually configured IPv6 network settings.</p> <p><b>Note:</b> the default value is Off.</p> <p>If you change this parameter, the system will reboot to make the change take effect.</p>	<p>Web user interface</p>
<b>IP Address</b>	<p>Configure the IPv6 address assigned to the system.</p> <p><b>Note:</b> It is configurable only when the network type is selected as <b>Static IP</b>.</p> <p>If you change this parameter, the system will reboot to make the change take effect.</p>	<p>Web user interface</p> <p>Endpoint</p> <p>CTP20</p>
<b>IPv6 prefix((0~128)/ IP prefix</b>	<p>Configure the IPv6 prefix.</p> <p><b>Note:</b> It is configurable only when the network type is selected as <b>Static IP</b>.</p> <p>If you change this parameter, the system will reboot to make the change take effect.</p>	<p>Web user interface</p> <p>Endpoint</p> <p>CTP20</p>

Parameter	Description	Configuration Method
<b>Gateway</b>	Configure the IPv6 default gateway. <b>Note:</b> It is configurable only when the network type is selected as <b>Static IP</b> . If you change this parameter, the system will reboot to make the change take effect.	Web user interface Endpoint CTP20
<b>Static DNS</b>	Enable or disable DNS feature. <b>Default:</b> Off. If you change this parameter, the system will reboot to make the change take effect.	Web user interface Endpoint CTP20
<b>Primary DNS/Pri.DNS</b>	Configure the primary DNS server assigned to the system. <b>Note:</b> In the DHCP environment, it is configurable when the static DNS feature is enabled. If you change this parameter, the system will reboot to make the change take effect.	Web user interface Endpoint CTP20
<b>Secondary DNS/Sec.DNS</b>	Configure the secondary DNS server assigned to the system. <b>Note:</b> In the DHCP environment, it is configurable when the static DNS feature is enabled. If you change this parameter, the system will reboot to make the change take effect.	Web user interface Endpoint CTP20

## Wi-Fi


For VC880/VC800/VC500/PVT980/PVT950, you need to connect a WF50 Wi-Fi USB Dongle to the system for connecting to the wireless network. You can connect the VC200/VP59 to the wireless network directly.

- [Connecting to the Wireless Network](#)
- [Viewing the Wireless Network Status](#)
- [Forgetting a Wireless Network](#)
- [Disabling the Wi-Fi Feature](#)

### Connecting to the Wireless Network

There are two ways to connect to the wireless network:

- Manually connect to an available wireless network
- Manually connect to a hidden wireless network

When the system connects to a wireless network, the Wi-Fi icon  will display in the status bar. The Wi-Fi icon indicates the signal strength. The more arcs you see, the stronger the signal strength is.




**Note:** If you connect the codec to the wireless network via CTP20, make sure that CTP20 is wired to the codec.

- [Connecting to the Wireless Network](#)
- [Connecting to a Hidden Wireless Network](#)

### Connecting to the Wireless Network

You can manually connect your phone to a wireless network.


#### Procedure

1. Do one of the following:
  - On your VCS:
    - On your VC880/VC800/VC500/PVT980/PVT950, go to **More > Setting > Advanced > Wi-Fi**.
    - On your VC200, go to **More > Network > Wi-Fi**.
    - On your VP59, tap **Setting > Network & Connection > Wi-Fi**.
  - On your CTP20, tap  > **Setting > Network > Host Network > Network > Wireless Network**.
2. Enable **Wi-Fi**.
3. If you already enabled wireless AP, select **OK** to turn it off.  
The system will automatically search for available wireless networks in your area.
4. Select the desired wireless network (SSID) and connect to it.  
If the network is secure, enter its password in the **Password** field, and tap **Join to Network**.

### Connecting to a Hidden Wireless Network

Some wireless networks do not broadcast their SSIDs, which makes them unavailable to find. You need to connect to one of those networks manually.


#### Procedure

1. Do one of the following:
  - On your VCS:
    - On your VC880/VC800/VC500/PVT980/PVT950, go to **More > Setting > Advanced > Wi-Fi**.
    - On your VC200, go to **More > Network > Wi-Fi**.
    - On your VP59, tap **Setting > Network & Connection > Wi-Fi**.
  - On your CTP20, tap  > **Setting > Network > Host Network > Network > Wireless Network**.
2. Enable **Wi-Fi**.
3. If you already enabled wireless AP, select **OK** to turn it off.  
The system will automatically search for available wireless networks in your area.
4. Select **Other**.
5. Enter the name of the wireless network.
6. Select the desired value from the **Security Mode** drop-down menu.
7. Configure the corresponding parameters.
8. Select **Join to Network**.

## Viewing the Wireless Network Status

You can view the wireless network status.


### Procedure

- Do one of the following:
  - On your web user interface, go to **Network > Wi-Fi > Wi-Fi Status**.
  - On your VCS:
    - On your VC880/VC800/VC500/PVT980/PVT950, go to **More > Setting > Advanced > Wi-Fi > Wi-Fi Status**.
    - On your VC200, go to **More > Network > Wi-Fi > Wireless Status**.
    - On your VP59, tap **Setting > Network & Connection > Wireless Network > Wireless Status**.
  - On your CTP20, tap  > **Setting > System Status > Host System > Network > Wireless Network**.
- View the detailed wireless network information (for example, SSID or the signal strength).

## Forgetting a Wireless Network


The device will automatically save the network that has been connected ever. To avoid the device connected to a saved wireless network automatically, you can configure the device not to save it. Next time you need enter the password to connect the network.

### Procedure

- Do one of the following:
  - On your VCS:
    - On your VC880/VC800/VC500/PVT980/PVT950, go to **More > Setting > Advanced > Wi-Fi**.
    - On your VC200, go to **More > Network > Wi-Fi > Wi-Fi**.
    - On your VP59, tap **Setting > Network & Connection > Wi-Fi**.
  - On your CTP20, tap  > **Setting > Network > Host Network > Network > Wireless Network**.
- Select the connected wireless network.
- Select **Forget the Network**.

## Disabling the Wi-Fi Feature

### Procedure

- Do one of the following:
  - On your web user interface, go to **Network > Wi-Fi > Wi-Fi Config > Wi-Fi**.
  - On your VCS:
    - On your VC880/VC800/VC500/PVT980/PVT950, go to **More > Setting > Advanced > Wi-Fi**.
    - On your VC200, go to **More > Network > Wi-Fi > Wi-Fi**.
    - On your VP59, tap **Setting > Network & Connection > Wi-Fi**.
  - On your CTP20, tap  > **Setting > Network > Host Network > Network > Wireless Network**.
- Disable the Wi-Fi.

## Wireless Access Point


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For VC880/VC800/VC500/PVT980/PVT950, you need to connect a WF50 Wi-Fi USB Dongle to the system for providing the wireless AP. VC200/VP59 can provide wireless AP directly.

- [Enabling the Wireless Access Point](#)
- [Configuring Wireless Access Point](#)
- [Viewing the Connected Devices](#)
- [Adding Connected Devices to the Blacklist](#)
- [Removing Devices from the Blacklist](#)
- [Disabling the Wireless Access Point](#)

### Enabling the Wireless Access Point

#### Procedure

1. Do one of the following:
  - On your web user interface, go to **Network > Wireless AP**.
  - On your VCS:
    - On your VC880/VC800/VC500/PVT980/PVT950, go to **More > Setting > Advanced > Wireless AP**.
    - On your VC200, go to **More > Network > Wireless AP**.
    - On your VP59, tap **Setting > Network & Connection > Wireless AP**.
  - If CTP20 is wired to the device, on your CTP20, tap  > **Setting > Network > Host Network > Network > Wireless AP**.
2. Enable the Wireless AP.
3. If you already enabled Wi-Fi, select **OK** to turn it off.


### Configuring Wireless Access Point

You can configure the wireless access point for the devices.

#### Before you begin

Make sure you enable wireless access point.

#### Procedure

1. Do one of the following:
  - On your web user interface, go to **Network > Wireless AP**.
  - On your VCS:
    - On your VC880/VC800/VC500/PVT980/PVT950, go to **More > Setting > Advanced > Wireless AP > Configure AP**.
    - On your VC200, go to **More > Network > Wireless AP > Configure AP**.
    - On your VP59, tap **Setting > Network & Connection > Wireless AP > Configure AP**.
  - On your CTP20, tap  > **Setting > Network > Host Network > Network > Wireless AP > Configure AP**.

## 2. Configure and save the following settings:

Parameter	Description	Configuration Method
<b>AP Name</b>	Configure the name of wireless AP.	Web user interface Endpoint CTP20
<b>Security Mode</b>	Configure the security mode of the wireless AP. <ul style="list-style-type: none"> <li>• None</li> <li>• WPA2-PSK</li> </ul> <b>Default:</b> WPA2-PSK.	Web user interface Endpoint CTP20
<b>Password</b>	Configure the password of the wireless AP. <b>Note:</b> only when the security mode is WPA2-PSK do you need to configure this parameter.	Web user interface Endpoint CTP20
<b>Network Sharing</b>	Enable or disable the system to share its wired network to the connected devices. <ul style="list-style-type: none"> <li>• <b>On</b>—The connected devices can use an Internet connection.</li> <li>• <b>Off</b>—The connected devices cannot use an Internet connection.</li> </ul> <b>Default:</b> Disabled.	Web user interface
<b>Frequency</b>	Configure the frequency of the wireless AP. <ul style="list-style-type: none"> <li>• 2.4G</li> <li>• 5G</li> </ul> <b>Default:</b> 5G.	Web user interface Endpoint CTP20
<b>Channel</b>	Configure the channel of the wireless AP. <b>Default:</b> Auto.	Web user interface Endpoint CTP20



Parameter	Description	Configuration Method
<b>AP IP Address</b>	<p>Configure the generation type of wireless AP address.</p> <ul style="list-style-type: none"> <li>• <b>Auto</b>—generates the wireless AP address automatically. The default network segment is 192.168.144.X.</li> <li>• <b>Manual</b>—If automatically generated network segment conflicts with the one you use, you can change the network segment manually.</li> </ul> <p><b>Default:</b> Auto.</p>	Web user interface
<b>IP Address</b>	<p>Configure the IP address of the wireless AP.</p> <p>Only when the AP IP Address is manual do you need to configure this parameter.</p>	Web user interface

## Viewing the Connected Devices

### Procedure

1. Do one of the following:

- On your VCS:

On your VC880/VC800/VC500/PVT980/PVT950, go to **More > Setting > Advanced > Wireless AP > AP Device List**.

On your VC200, go to **More > Network > Wireless AP > AP device list**.

On your VP59, tap **Setting > Network & Connection > Wireless AP > AP device list**.

- On your CTP20, tap  > **Setting > Network > Host Network > Network > Wireless AP > AP device list**.

2. View the names and the MAC addresses of the connected devices.

## Adding Connected Devices to the Blacklist

You can add connected devices to the blacklist, and the device is disconnected from the wireless AP.

### Procedure

1. Do one of the following:

- On your VCS:

On your VC880/VC800/VC500/PVT980/PVT950, go to **More > Setting > Advanced > Wireless AP > AP Device List**.

On your VC200, go to **More > Network > Wireless AP > AP device list**.

On your VP59, tap **Setting > Network & Connection > Wireless AP > AP device list**.

- On your CTP20, tap  > **Setting > Network > Host Network > Network > Wireless AP > AP device list**.

2. Select the desired device.

The monitor prompts “Move the device into blacklist?”.

3. Confirm the action.

The device is disconnected from your system, and cannot be connected to the wireless AP provided by your system any more.

## Removing Devices from the Blacklist

You can remove devices from the blacklist, so that the devices can connect to the wireless AP provided by your system.

### Procedure

1. Do one of the following:

- On your VCS:

On your VC880/VC800/VC500/PVT980/PVT950, go to **More > Setting > Advanced > Wireless AP > Blacklist**.

On your VC200, go to **More > Network > Wireless AP > Blacklist**.

On your VP59, tap **Setting > Network & Connection > Wireless AP > Blacklist**.

- On your CTP20, tap  > **Setting > Network > Host Network > Network > Wireless AP > Blacklist**.

2. Select the desired device.


The monitor prompts “Remove the device from blacklist?”.

3. Confirm the action.

After removed from the blacklist, the device can search and connect to the wireless AP provided by your system.

## Disabling the Wireless Access Point

### Procedure

- Do one of the following:
  - On your web user interface, go to **Network > Wireless AP**.
  - On your VCS:
    - On your VC880/VC800/VC500/PVT980/PVT950, go to **More > Setting > Advanced > Wireless AP**.
    - On your VC200, go to **More > Network > Wireless AP**.
    - On your VP59, tap **Setting > Network & Connection > Wireless AP**.
  - On your CTP20, tap  > **Setting > Network > Host Network > Network > Wireless AP**.
- Disable the wireless AP.


## Configuring DNS Server

You can configure DNS server for IPv4 and IPv6 respectively. If the system obtains the network via DHCP, you can also configure the static DNS for DHCP. You can configure up to two DNS servers for the system.

### About this task

If you use static IP address, static DNS is enabled by default. You can just specify the DNS server address.

### Procedure

- Do one of the following:
  - On your web user interface, go to **Network > LAN Configuration > IPv4 Config/IPv6 Config**.
  - On your VCS:
    - On your VC880/VC800/VC500/PVT980/PVT950, go to **More > Setting > Advanced > Wired Network > IPv4/IPv6**.
    - On your VC200, go to **More > Network > Wired Network > IPv4/IPv6**.
    - On your VP59, go to **Setting > Advanced > Wired Network > IPv4/IPv6**.
  - On your CTP20, tap  > **Setting > Network > Host Network > Network > Wired Network > IPv4/IPv6**.
- Configure and save the following settings:

Parameter	Description	Configuration Method
<b>Static DNS</b>	Enable or disable DNS feature. <b>Default:</b> Off. If you change this parameter, the system will reboot to make the change take effect.	Web user interface Endpoint CTP20
<b>Primary DNS/Pri.DNS</b>	Configure the primary DNS server assigned to the system. If you change this parameter, the system will reboot to make the change take effect.	Web user interface Endpoint CTP20

Parameter	Description	Configuration Method
<b>Secondary DNS/Sec.DNS</b>	Configure the secondary DNS server assigned to the system.  If you change this parameter, the system will reboot to make the change take effect.	Web user interface Endpoint CTP20

**Related information**

[Configuring IPv4 or IPv6](#)

## DHCP Options

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The DHCP information with labels carries with the corresponding network and other control information. The information is called option. After connected to the network, the device will broadcast the DISCOVER request which carries the DHCP options of the network information. The DHCP server will replay the corresponding option after receiving the request.

**Note:**

For more information on DHCP options, refer to [RFC 2131](#) or [RFC 2132](#).

- [Supported DHCP Option of IPv4](#)
- [DHCP Option 42, Option 2](#)
- [DHCP Option 12](#)

### Supported DHCP Option of IPv4

The following table lists the DHCP options supported by Yealink VCS in IPv4 network.

Parameter	DHCP Options	Description
<b>Subnet Mask</b>	1	Specify the subnet mask of the client.
<b>Time Offset</b>	2	Specify the offset between the client subnet and the Coordinated Universal Time (UTC).
<b>Router</b>	3	Specify a list of IP addresses for routers on the client's subnet.
<b>Time Server</b>	4	Specify a list of time servers available to the client.
<b>Domain Name Server</b>	6	Specify a list of domain name servers available to the client.
<b>Host Name</b>	12	Specify the name of the client.
<b>Domain Server</b>	15	Specify the domain name that client should use when resolving hostnames via DNS.
<b>Network Time Protocol Servers</b>	42	Specify the list of NTP server address available to the client.
<b>Vendor-Specific Information</b>	43	Identify the vendor-specific information.

Parameter	DHCP Options	Description
<b>Vendor Class Identifier</b>	60	Identify the vendor type.
<b>TFTP Server Name</b>	66	Identify a TFTP server when the 'sname' field in the DHCP header has been used for DHCP options.

## DHCP Option 42, Option 2

Your system can obtain the NTP server address via DHCP.

DHCP option 42 is used to obtain the available NTP server list.

DHCP option 2 is used to specify the offset (seconds) between the system's subnet and Coordinated Universal Time (UTC).

### Related tasks

[NTP Settings](#)

## DHCP Option 12

You can specify a hostname for the system. When the system sends the request of DHCP DISCOVER, it will report the configured host name to the DHCP server via DHCP option 12. See [RFC 1035](#) for character restrictions.

- [Configuring the Host Name](#)

### Configuring the Host Name

#### Procedure

1. On your web user interface, go to **Network > LAN Configuration > Host Name**.
2. Configure and save the following settings:

Parameter	Description	Configuration Method
<b>Host Name</b>	<p>Configure the host name of the system.</p> <p><b>Note:</b> When the system broadcasts DHCP DISCOVER messages, it will report the configured host name to the DHCP server via DHCP option 12. For more information, contact the network administrator.</p> <p>If you change this parameter, the system will reboot to make the change take effect.</p>	Web user interface

## VLAN

The purpose of VLAN configurations on the system is to insert tag with VLAN information to the packets generated by the system. When VLAN is properly configured for the Internet port on the system, the system will tag all packets from the Internet port with the VLAN ID. The switch receives and forwards the tagged packets to the corresponding VLAN according to the VLAN ID in the tag as described in IEEE Std 802.3.

In addition to manual configuration, the system also supports automatic discovery of VLAN via LLDP or DHCP. The assignment takes effect in this order: assignment via LLDP, manual configuration, then assignment via DHCP.

For more information on VLAN, refer to [VLAN Feature on Yealink IP Phones](#).

- [Configuring LLDP](#)
- [Configuring VLAN Manually](#)
- [Configuring DHCP VLAN](#)

## Configuring LLDP

LLDP (Linker Layer Discovery Protocol) is a vendor-neutral Link Layer protocol, which allows systems to receive and/or transmit device-related information from/to directly connected devices on the network that are also using the protocol, and store the information about other devices.

When LLDP feature is enabled on systems, the systems periodically advertise their own information to the directly connected LLDP-enabled switch. The systems can also receive LLDP packets from the connected switch and obtain their VLAN IDs, and then start communications with the call control. The switch assigns a VLAN ID to the endpoint through the LLDP protocol.

- [Configuring LLDP](#)

### Configuring LLDP

#### Procedure

1. Do one of the following:

- On your web user interface, go to **Network > Advanced > LLDP**.
- On your VCS:

On your VC880/VC800/VC500/PVT980/PVT950, go to **More > Setting > Advanced > Advanced Network > LLDP**.

On your VC200, go to **More > Network > Wired Network > Advanced Network > LLDP**.

On your VP59, tap **Setting > Advanced > Advanced Network > LLDP**.

- On your CTP20, tap  > **Setting > Network > Host Network > Advanced Network > LLDP**.

2. Configure and save the following settings:

Parameter	Description	Configuration Method
<b>Active</b>	<p>Enable or disable the LLDP feature on the system.</p> <p><b>Note:</b> the default value is Off.</p> <p>If you change this parameter, the system will reboot to make the change take effect.</p>	<p>Web user interface</p> <p>Endpoint</p> <p>CTP20</p>

Parameter	Description	Configuration Method
<b>Packet Interval(1-3600s)</b>	<p>Configure the interval (seconds) for the system to send LLDP requests.</p> <p><b>Default:</b> 60 seconds. The value can be any integer from 1 to 3600.</p> <p>If you change this parameter, the system will reboot to make the change take effect.</p>	<p>Web user interface</p> <p>Endpoint</p> <p>CTP20</p>

## Configuring VLAN Manually

VLAN is disabled on systems by default. You can configure VLAN for the Internet port manually. Before configuring VLAN on the system, you need to obtain the VLAN ID from your network administrator.

### Procedure

1. Do one of the following:

- On your web user interface, go to **Network > Advanced > VLAN > Internet Port**.
- On your VCS:

On your VC880/VC800/VC500/PVT980/PVT950, go to **More > Setting > Advanced > Advanced Network > VLAN**.

On your VC200, go to **More > Network > Wired Network > Advanced Network > VLAN**.

On your VP59, tap **Setting > Advanced > Advanced Network > VLAN**.

- On your CTP20, tap  > **Setting > Network > Host Network > Advanced Network > VLAN**.

2. Configure and save the following settings:

Parameter	Description	Configuration Method
<b>Active</b>	<p>Enable or disable VLAN for the Internet port.</p> <p><b>Note:</b> the default value is Off.</p> <p>If you change this parameter, the system will reboot to make the change take effect.</p>	<p>Web user interface</p> <p>Endpoint</p> <p>CTP20</p>
<b>VID(1-4094)</b>	<p>Configure the identification of the Virtual LAN.</p> <p><b>Note:</b> the default value is 1. The value can be any integer from 1 to 4094.</p> <p>If you change this parameter, the system will reboot to make the change take effect.</p>	<p>Web user interface</p> <p>Endpoint</p> <p>CTP20</p>

Parameter	Description	Configuration Method
<b>Priority</b>	<p>Configure the VLAN priority.</p> <p><b>Note:</b> the default value is 0. The value can be any integer from 0 to 7. The smaller the number is, the higher the priority is.</p> <p>If you change this parameter, the system will reboot to make the change take effect.</p>	<p>Web user interface</p> <p>Endpoint</p> <p>CTP20</p>

## Configuring DHCP VLAN

Your system supports VLAN discovery via DHCP. When the VLAN discovery method is set to DHCP, the system will examine DHCP option for a valid VLAN ID. The predefined option 132 is used to supply the VLAN ID (it should be predefined on the DHCP server first) by default. The administrator can customize the DHCP option used to request the VLAN ID.

### Procedure

1. On your web user interface, go to **Network > Advanced > VLAN > DHCP VLAN**.
2. Configure and save the following settings:

Parameter	Description	Configuration Method
<b>Active/STUN Active</b>	<p>Enable or disable the DHCP VLAN discovery feature on the system.</p> <p><b>Note:</b> the default value is On.</p> <p>If you change this parameter, the system will reboot to make the change take effect.</p>	<p>Web user interface</p>
<b>Option</b>	<p>Specify the DHCP option from which the system obtains the VLAN settings. You can configure at most 5 DHCP options and separate them by commas.</p> <p><b>Note:</b> the value can be any integer from 128 to 254. The default value is 132.</p> <p>If you change this parameter, the system will reboot to make the change take effect.</p>	<p>Web user interface</p>

## 802.1x Authentication

You can use 802.1x authentication to restrict the unauthorized devices to accessing the LAN. The 802.1x authentication can be used to authenticate the devices connected to the port before the system obtains all the businesses.



The system supports the following protocols for 802.1X authentication:

- EAP-MD5
- EAP-TLS (Device and CA certificates are required, password is not required)
- EAP-PEAP/MSCHAPv2 (CA certificates are required)
- EAP-TTLS/EAP-MSCHAPv2 (CA certificates are required)

For more information on 802.1X authentication, refer to [Yealink 802.1X Authentication](#).

- [Configuring the 802.1x Authentication](#)

## Configuring the 802.1x Authentication

### Procedure

1. Do one of the following:

- On your web user interface, go to **Network > Advanced > 802.1x**.
- On your VCS:

On your VC880/VC800/VC500/PVT980/PVT950, go to **More > Setting > Advanced > Advanced Network > 802.1x Mode**.

On your VC200, go to **More > Network > Wired Network > Advanced Network > 802.1x Mode**.

On your VP59, tap **Setting > Advanced > Advanced Network > 802.1x Mode**.

- On your CTP20, tap  > **Setting > Network > Host Network > Advanced Network > 802.1x Mode**.

2. Configure and save the following settings:

Parameter	Description	Configuration Method
<b>802.1x Mode</b>	<p>Specify the 802.1x authentication mode.</p> <ul style="list-style-type: none"> <li>• <b>Disabled</b></li> <li>• EAP-MD5</li> <li>• EAP-TLS</li> <li>• PEAP-MSCHAPv2</li> <li>• EAP-TTLS/EAP-MSCHAPv2</li> </ul> <p><b>Note:</b> the default value is disabled.</p> <p>If you change this parameter, the system will reboot to make the change take effect.</p>	<p>Web user interface</p> <p>Endpoint</p> <p>CTP20</p>
<b>Identity</b>	<p>Configure the user name for 802.1x authentication.</p> <p><b>Note:</b> the default value is blank.</p> <p>If you change this parameter, the system will reboot to make the change take effect.</p>	<p>Web user interface</p>

Parameter	Description	Configuration Method
<b>MD5 Password</b>	<p>Configure the password for 802.1x authentication.</p> <p><b>Note:</b> the default value is blank.</p> <p>If you change this parameter, the system will reboot to make the change take effect.</p>	Web user interface
<b>CA Certificates</b>	<p>Upload the CA certificates.</p> <p><b>Note:</b> upload the CA certificates when the 802.1x authentication mode is configured as EAP-TLS, PEAP-MSCHAPv2, or EAP-TTLS/EAP-MSCHAPv2.</p> <p>If you change this parameter, the system will reboot to make the change take effect.</p>	Web user interface
<b>Device Certificates</b>	<p>Upload the device certificates.</p> <p><b>Note:</b> Configure the access URL of the server certificate when the 802.1x authentication mode is configured as EAP-TLS.</p> <p>If you change this parameter, the system will reboot to make the change take effect.</p>	Web user interface

## Enabling/Disabling the PC Port

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The PC port of the VP59 is activated by default and can be used to provide computers with the network. If you do not want the VP59 to provide network to the computer, you can disable this feature.

### Procedure

1. On your web user interface, go to **Network > PC Port > PC Port Active**.

## 2. Configure and save the following settings:

Parameter	Description	Configuration Method
<b>PC Port Active</b>	<p>Enable or disable the VP59 to provide the connected computer with the network.</p> <ul style="list-style-type: none"> <li>• Disabled</li> <li>• Auto Negotiation</li> </ul> <p><b>Note:</b> the default value is <b>Auto Negotiation</b>.</p> <p>If you change this parameter, the system will reboot to make the change take effect.</p>	Web user interface

**Related information**

[Network Speed and Duplex Mode](#)

## Network Speed and Duplex Mode

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You can configure the network speed and duplex mode for the system. The network speed and duplex mode you select for the system must be supported by the switch.

VP59 allows you to configure the speed of Internet port and PC port.

- [Supported Transmission Methods](#)
- [Configuring Transmission Methods](#)

### Supported Transmission Methods

The supported transmission methods for VC880/VC800/VC500/PVT980/PVT950 system's Internet port are listed below:

- Auto
- Full Duplex (transmit in 10Mbps, 100Mbps or 1000Mbps)
- Half Duplex (transmit in 10Mbps or 100Mbps)

The supported transmission methods for VC200 endpoint's Internet port are listed below:

- Auto
- Full Duplex (transmit in 10Mbps or 100Mbps)
- Half Duplex (transmit in 10Mbps or 100Mbps)

The supported transmission methods for VP59 are listed below:

- **WAN Port Link**
  - Auto Negotiation
  - Full Duplex (transmit in 10Mbps, 100Mbps or 1000Mbps)
  - Half Duplex (transmit in 10Mbps or 100Mbps)
- **PC Port Link**
  - Auto Negotiation
  - Full Duplex (transmit in 10Mbps, 100Mbps or 1000Mbps)
  - Half Duplex (transmit in 10Mbps or 100Mbps)

## Configuring Transmission Methods

### Procedure


1. On your web user interface, go to **Network > Advanced > Port Link**.  
For VP59, on your web user interface, go to **Network > Advanced > Port Link**.
2. Configure and save the following settings:

Parameter	Description	Configuration Method
<b>WAN Port Link</b> (WAN Port Link/PC Port Link)	Specify the network speed and the duplex mode for the system.  Note: the default value is Auto. The network speed and duplex mode you select must be supported by the switch. <b>WAN Port Link</b> and <b>PC Port Link</b> is only applicable to VP59.  If you change this parameter, the system will reboot to make the change take effect.	Web user interface

## Restricting Reserved Ports

By default, the system communicates through TCP and UDP ports from 50000 to 51000 for the video, the voice, the presentation, and the camera control. The system uses only a small number of these ports during a call. The specific number of the port depends on the number of participants in the call, the protocol used, and the number of ports required for the type of call (video or voice). To minimize the number of UDP and TCP ports that are available for communication, you can restrict the ports range.

### Procedure

1. Do one of the following:
  - On your web user interface, go to **Network > NAT/Firewall > Reserved Port**.
  - On your VCS:
    - On your VC880/VC800/VC500/PVT980/PVT950, go to **More > Setting > Advanced > NAT/Firewall > Reserved Port**.
    - On your VC200, go to **More > Network > Wired Network > NAT/Firewall > Reserved Port**.
    - On your VP59, tap **Setting > Advanced > NAT/Firewall > Reserved Port**.
  - On your CTP20, tap  > **Setting > Network > Host Network > NAT/Firewall > Reserved Port**.

2. Configure and save the following settings:

Parameter	Description	Configuration Method
<b>UDP Port Scope/ UDP Lowest Port—UDP Highest Port</b>	Configure the range of the UDP ports.  <b>Note:</b> the default UDP port range is from 50000 to 51000. The valid value is from 1024 to 65000.  SIP and H.323 calls share the configured ports. If you change this parameter, the system will reboot to make the change take effect.	Web user interface  Endpoint  CTP20
<b>TCP Port Scope/ TCP Lowest Port—TCP Highest Port</b>	Configure the range of the TCP ports.  <b>Note:</b> the default TCP port range is from 50000 to 51000. The valid value is from 1024 to 65000.  SIP and H.323 calls share the configured ports. If you change this parameter, the system will reboot to make the change take effect.	Web user interface  Endpoint  CTP20

## Quality of Service (QoS)

Video conferencing system is subject to the bandwidth and the delay. Therefore, the QoS is very important for the network with limited bandwidth. QoS is a major issue in VoIP implementations, regarding how to guarantee that packet traffic is not delayed or dropped due to interference from other lower priority traffic. Your system supports the DiffServ model of QoS.

### Audio QoS

The loss of audio packets, the delay and so on may cause poor audio quality. To solve this, you can configure DSCP priority for the audio packets.

### Video QoS

Some issues, such as the video packet loss and delay may cause the video images distorted and unclear. To ensure acceptable visual quality for video, video packets emanated from the system should be configured with a high transmission priority.

### Data QoS

To ensure better presentation, data packets (PC content) emanated from the system should be configured with a high transmission priority. DSCPs for audio, video and data packets can be specified respectively.

- [Configuring QoS](#)

## Configuring QoS

### Procedure

1. Do one of the following:

- On your web user interface, go to **Network > Advanced > QoS**.
- On your VCS:

On your VC880/VC800/VC500/PVT980/PVT950, go to **More > Setting > Advanced > Advanced Network > QoS**.

On your VC200, go to **More > Network > Wired Network > Advanced Network > QoS**.

On your VP59, tap **Setting > Advanced > Advanced Network > QoS**.

- On your CTP20, tap  > **Setting > Network > Host Network > Advanced Network > QoS**.

2. Configure and save the following settings:

Parameter	Description	Configuration Method
<b>QoS/QoS Enable</b>	Enable or disable the QoS feature. <b>Note:</b> the default value is Off. If you change this parameter, the system will reboot to make the change take effect.	Web user interface Endpoint CTP20
<b>Audio Priority/Audio Priority(0-63)</b>	Configure the DSCP (Differentiated Services Code Point) for audio packets. <b>Note:</b> the default value is 63. The greater the number is, the higher the priority is. If you change this parameter, the system will reboot to make the change take effect.	Web user interface Endpoint CTP20
<b>Video Priority/Video Priority (0-63)</b>	Configure the DSCP (Differentiated Services Code Point) for video packets. <b>Note:</b> the default value is 34. The greater the number is, the higher the priority is. If you change this parameter, the system will reboot to make the change take effect.	Web user interface Endpoint CTP20

Parameter	Description	Configuration Method
<b>Data Priority/ Data Priority (0-63)</b>	Configure the DSCP (Differentiated Services Code Point) for data packets.  <b>Note:</b> the default value is 63. The greater the number is, the higher the priority is. If you change this parameter, the system will reboot to make the change take effect.	Web user interface Endpoint CTP20

## Configuring MTU

Data packets that exceed the maximum transmission unit (MTU) size for any router or segment along the network path may be fragmented or dropped, which may result in the poor video quality. You can set the maximum MTU size of the data packets sent by the system.

### About this task

Configure the MTU size used in calls based on the network bandwidth settings. If the video becomes blocky or network errors occur, packets may be too large; you should decrease the MTU. If the network is burdened with unnecessary overhead; packets may be too small, you should increase the MTU.

### Procedure

1. Do one of the following:

- On your web user interface, go to **Network > Advanced > MTU**.
- On your VCS:

On your VC880/VC800/VC500/PVT980/PVT950, tap **MoreSetting > Advanced > Advanced Network > Network MTU (1000-1500)**.

On your VC200, go to **More > Network > Wired Network > Advanced Network > Network MTU (1000-1500)**.

On your VP59, tap **Setting > Advanced > Advanced Network > Network MTU (1000-1500)**.

- On your CTP20, tap  > **Setting > Network > Host Network > Advanced Network > Network MTU (1000-1500)**.

2. Configure and save the following settings:

Parameter	Description	Configuration Method
<b>Network MTU (1000-1500)</b>	Specify the maximum MTU size (bytes) of data packets sent by the system.  <b>Note:</b> the value can be any integer from 1000 to 1500. The default value is 1500.  If you change this parameter, the system will reboot to make the change take effect.	Web user interface Endpoint CTP20

Parameter	Description	Configuration Method
<b>Restricted Single Packet Mode</b>	<p>Enable or disable the restricted single packet mode.</p> <ul style="list-style-type: none"> <li>• <b>Off</b>—sends data packets by using multiple packets mode.</li> <li>• <b>On</b>—sends data packets by using single packet mode.</li> </ul> <p><b>Note:</b> the default value is Off.</p> <p>Some third-party devices only accept the data packets sent by single packet mode. If local system sends data packets by using multiple packets mode, the video call may be come with the mosaic. To avoid this situation, enable this <b>Restricted Single Packet Mode</b>.</p> <p>If you change this parameter, the system will reboot to make the change take effect.</p>	Web user interface

## Configuring SNMP

SNMP (Simple Network Management Protocol) is an Internet-standard protocol for managing devices on IP networks. It is used mostly in network management systems to monitor network-attached devices for conditions that warrant administrative attention. You can device related information by using SNMP.

### About this task

SNMP exposes management data in the form of variables on the managed systems, which describe the system configuration. These variables can then be queried (and sometimes set) by managing applications. The variables accessible via SNMP are organized in hierarchies, which are described by Management Information Bases (MIBs). The endpoints support SNMPv1 and SNMPv2. They act as SNMP clients, receiving requests from the SNMP server. The SNMP server may send requests from any available source port to the configured port on the client, while the client responds to the source port on the SNMP server. The endpoints only support the GET request from the SNMP server.

SNMP feature is not applicable to VP59.

### Procedure

1. On your web user interface, go to **Network > Advanced > SNMP**.



2. Configure and save the following settings:

Parameter	Description	Configuration Method
<b>Active</b>	<p>Enable or disable SNMP feature on the system.</p> <p><b>Note:</b> the default value is Off.</p> <p>If you change this parameter, the system will reboot to make the change take effect.</p>	Web user interface
<b>Port</b>	<p>Configure the SNMP port.</p> <p><b>Note:</b> The value can be any integer from 1 to 65535.</p> <p>If you change this parameter, the system will reboot to make the change take effect.</p>	Web user interface
<b>Trusted Address</b>	<p>Configure the IP address or domain name of the SNMP server.</p> <p><b>Note:</b> If you change this parameter, the system will reboot to make the change take effect.</p>	Web user interface

## Configuring Account Settings

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This chapter provides information on how to configure account settings.

- [Setting SIP Account/SIP IP Call](#)
- [Setting H. 323 Account/H.323 IP Call](#)
- [Configuring the PSTN account](#)
- [Configuring the Video Conference Platform Account](#)
- [Quickly Switching Platform](#)
- [Logging out of the Video Conference Platform](#)

### Setting SIP Account/SIP IP Call

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Yealink video conferencing system supports Session Initiation Protocol (SIP). If your server supports SIP, you can make a voice/video call using the SIP account or IP address.

- [Configuring SIP Accounts](#)
- [Configuring SIP IP Call](#)

## Configuring SIP Accounts

Yealink video conferencing system supports Session Initiation Protocol (SIP). If your server supports SIP, you can configure a SIP account for your device, and other users can call you by dialing your SIP account.


### Procedure

- Do one of the following:
  - On your web user interface, go to **Account > SIP Account**.
  - On your VCS, go to **More > Setting > Advanced > SIP Account**.  
On your VP59, tap **Setting > Advanced > SIP Account**.
  - On your CTP20, tap  > **Setting > Advanced > Account > SIP Account**.
- Configure and save the following settings:

Parameter	Description	Configuration Method
<b>Line Active/SIP Account</b>	Enable or disable SIP Accounts. <b>Note:</b> the default value is On. If it is set to <b>disabled</b> , the devices cannot place or receive calls via the SIP protocol.	Web user interface Endpoint CTP20
<b>Username</b>	The username of this SIP account. <b>Note:</b> the default value is blank.	Web user interface Endpoint CTP20
<b>Register Name</b>	The registration name of this SIP account. <b>Note:</b> the default value is blank.	Web user interface Endpoint CTP20
<b>Password</b>	The registration password of this SIP account. <b>Note:</b> the default value is blank.	Web user interface Endpoint CTP20
<b>Server Host/Server</b>	The IP address or domain name of the SIP server. <b>Note:</b> the default value is blank.	Web user interface Endpoint CTP20
<b>Port</b>	Specify the port of the SIP server. <b>Note:</b> the default port number is 5060. The value can be any integer from 0 to 65535.	Web user interface Endpoint CTP20
<b>Enable Outbound Proxy Server/Outbound</b>	Enable or disable the device to send requests of the SIP account to the outbound proxy server. <b>Default:</b> Disabled.	Web user interface Endpoint CTP20

Parameter	Description	Configuration Method
<b>Outbound Proxy Server/ Outbound Server</b>	Configure the IP address or domain name of the outbound proxy server for this SIP account.  <b>Note:</b> only the outbound proxy server is enabled do you need to configure this parameter.	Web user interface Endpoint CTP20
<b>Outbound Port</b>	Configure the port of the outbound proxy server.  <b>Note:</b> the default port number is 5060. The value can be any integer from 0 to 65535.	Web user interface Endpoint CTP20
<b>Transport</b>	Specify the transport protocol for transmitting the SIP signaling.  The supported protocols are as follows: <ul style="list-style-type: none"> <li>• <b>UDP</b>—it provides the best transmission for SIP signaling.</li> <li>• <b>TCP</b>—it provides a reliable transmission for SIP signaling.</li> <li>• <b>TLS</b>—it provides a safe transmission for SIP signaling. TLS is available only when the device is registered on a SIP server that supports TLS.</li> <li>• <b>DNS-NAPTR</b>—the device performs the DNS NAPTR and SRV request to find the service type and the port if no server port is given.</li> </ul> <b>Default:</b> UDP.	Web user interface Endpoint CTP20
<b>Server Expires</b>	The registration timeout (in seconds) of the device.  After the timeout, the device will send the registration request to the SIP server again.  <b>Default:</b> 3600 seconds.	Web user interface Endpoint CTP20

Parameter	Description	Configuration Method
<b>Keep Alive Interval</b>	Configure the interval (in seconds) that the device sends keep-alive messages to the SIP server, so that the SIP server can remain connected to the device.  <b>Default:</b> 30 seconds.	Web user interface
<b>RPort</b>	Enable or disable the RPORT feature on the device.  When the VCS is behind a NAT device, you can enable this feature for the port traversal with the SIP server.  <b>Default:</b> Disabled.  The Rport feature need the support of the SIP server. For more information, refer to <a href="#">RFC 3581</a> .	Web user interface

 **Note:** If you want to use SIP accounts to make private-to-public calls, you also need to enable the static NAT settings or STUN feature for the SIP protocol.

#### Related tasks

[Configuring STUN](#)

#### Related information

[NAT](#)

## Configuring SIP IP Call


You can use the SIP protocol for SIP IP call, which means dialing the IP address of the other party instead of the account. If you do not want the third-party or Yealink old devices (for example, VC110/VC120/VC400/T49G or VC800/VC500/VC200 running firmware version 40 or earlier) to make IP calls to you, you can enable the advanced security feature and set the IP call password. For VC880/VC800/VC500/VC200/PVT980/PVT950, you can also disable SIP IP call feature to prevent unknown public network attacks.

#### About this task

The SIP IP call feature on VP59 controls SIP IP call in and SIP IP call out.

#### Procedure

1. Do one of the following:

- On your web user interface, go to **Account > SIP IP Call**.
- On your VCS, go to **More > Setting > Advanced > SIP IP Call Out**.  
On your VP59, tap **Setting > Advanced > SIP IP Call**.
- On your CTP20, tap  > **Setting > Advanced > Account > SIP IP Call**.

## 2. Configure and save the following settings:

Parameter	Description	Configuration Method
<b>SIP IP Incoming</b> (is not applicable to VP59)	Enable or disable the SIP IP Incoming. If it is enabled, the system can receive an IP address call directly.  <b>Note:</b> the default value is <b>Off</b> .	Web user interface
<b>SIP IP Call Out</b> (is not applicable to VP59)	Enable or disable the SIP IP Call Out. If it is enabled, the system can call the far site by dialing an IP address directly.  <b>Default:</b> On.	Web user interface Endpoint CTP20
<b>SIP IP Call</b> (is only applicable to VP59)	Enable or disable the SIP IP Call Out.  <b>Default:</b> On. <b>Note:</b> When it is set to On on both sites, the system can call the far site by dialing an IP address directly.	Web user interface Endpoint
<b>Transport</b>	Specify the type of transport protocol for the SIP IP call.  The supported protocols are as follows: <ul style="list-style-type: none"><li>• <b>UDP</b>—it provides the best transmission for SIP signaling.</li><li>• <b>TCP</b>—it provides a reliable transmission for SIP signaling.</li></ul> <b>Default:</b> TCP.	Web user interface Endpoint CTP20
<b>Advanced Security</b> (is not applicable to VP59)	Enable or disable the advanced security.  <b>Default:</b> On.  If advanced security is enabled and the IP call password is configured, the third-party or Yealink old devices need to use “password@IP” to call in for the SIP IP call.	Web user interface

Parameter	Description	Configuration Method
<b>IP Call Password</b> (is not applicable to VP59)	Configure the password for the SIP IP call.  <b>Note:</b> It can be configured only when the advanced security feature is enabled.	Web user interface



**Note:** If you want to use SIP IP call to make private-to-public calls, you also need to enable the static NAT settings or STUN feature for the SIP IP Call.

#### Related tasks

[Configuring NAT](#)

[Enabling Static NAT Feature for SIP Protocol\(SIP Account and SIP IP Call\)](#)


## Setting H. 323 Account/H.323 IP Call

The H.323 protocol is enabled by default. You can place IP calls via the H.323 protocol. If your network uses a gatekeeper, you can register an H.323 account for the system, and specify its H.323 name and extension. This allows others to call you via your H.323 name or the extension instead of the IP address.

- [Configuring H.323 Accounts](#)
- [H.323 Tunneling](#)

## Configuring H.323 Accounts

### Procedure

1. Do one of the following:
  - On your web user interface, go to **Account > H.323**.
  - On your VCS, go to **More > Setting > Advanced > H.323**.  
On your VP59, tap **Setting > Advanced > H.323**.
  - On your CTP20, tap  > **Setting > Advanced > Account > H.323**.
2. Configure and save the following settings:

Parameter	Description	Configuration Method
<b>H.323 Protocol</b>	Enable or disable the H.323 protocol.  <b>Note:</b> the default value is <b>On</b> . Only when it is set to On can the H.323 account be registered. When it is set to On on both sites, the devices can call each other by dialing an IP address directly.	Web user interface Endpoint CTP20

Parameter	Description	Configuration Method
<b>H.323 Account</b>	<p>Enable or disable the H.323 account.</p> <p><b>Note:</b> the default value is On. If it is set to <b>Off</b>, the devices cannot place or receive calls via the H.323 protocol.</p>	<p>Web user interface</p> <p>Endpoint</p> <p>CTP20</p>
<b>H.323 Name</b>	<p>Configure the device name that can be identified by the gatekeepers and gateways.</p> <p><b>Note:</b> the default value is blank. If two devices are registered to the same gatekeeper, they can make point-to-point calls by dialing their H.323 names.</p>	<p>Web user interface</p> <p>Endpoint</p> <p>CTP20</p>
<b>H.323 Extension</b>	<p>Configure the device extension that can be identified by the gatekeepers and gateways.</p> <p><b>Note:</b> the default value is blank. If two devices are registered to the same gatekeeper, they can make point-to-point calls by dialing their extensions.</p>	<p>Web user interface</p> <p>Endpoint</p> <p>CTP20</p>
<b>Gatekeeper Mode/Gatekeeper Type</b>	<p>Configures the gatekeeper mode.</p> <ul style="list-style-type: none"> <li>• <b>Off</b>—the system does not use a gatekeeper.</li> <li>• <b>Auto</b>—the system automatically discovers a gatekeeper.</li> <li>• <b>Manual</b>—specify the IP address and the port for the gatekeeper manually. You need manually configure the IP address and the port for the gatekeeper.</li> </ul> <p><b>Default:</b> Off.</p>	<p>Web user interface</p> <p>Endpoint</p> <p>CTP20</p>
<b>Gatekeeper IP Address 1/ Gatekeeper Server1</b>	<p>Configure the IP address or the domain name for the primary gatekeeper.</p> <p><b>Note:</b> the default value is blank. Only when the configuration type is manual do you need to configure this parameter.</p>	<p>Web user interface</p> <p>Endpoint</p> <p>CTP20</p>

Parameter	Description	Configuration Method
<b>Port/Gatekeeper Port 1</b>	<p>Configure the port for the primary gatekeeper.</p> <p><b>Note:</b> the default port number is 1719. The value can be any integer from 0 to 65535.</p>	<p>Web user interface</p> <p>Endpoint</p> <p>CTP20</p>
<b>Gatekeeper IP Address 2/ Gatekeeper Server2</b>	<p>Configure the IP address or the domain name for the secondary gatekeeper.</p> <p><b>Note:</b> the default value is blank. Only when the configuration type is manual do you need to configure this parameter.</p> <p>If the device cannot access the primary gatekeeper, the device will send the registration request to Gatekeeper Server2.</p>	<p>Web user interface</p> <p>Endpoint</p> <p>CTP20</p>
<b>Port/Gatekeeper Port 2</b>	<p>Configure the port for the secondary gatekeeper.</p> <p><b>Note:</b> the default port number is 1719. The value can be any integer from 0 to 65535.</p>	<p>Web user interface</p> <p>Endpoint</p> <p>CTP20</p>
<b>Gatekeeper Authentication/ Gatekeeper Verify</b>	<p>Enable or disable support for the gatekeeper authentication.</p> <p><b>Note:</b> the default value is Off. When Gatekeeper Authentication is enabled, the gatekeeper can ensure that only the trusted H.323 systems are allowed to access the gatekeeper.</p>	<p>Web user interface</p> <p>Endpoint</p> <p>CTP20</p>
<b>Gatekeeper Username</b>	<p>Configure the username used for the gatekeeper authentication.</p> <p><b>Note:</b> the default value is blank.</p>	<p>Web user interface</p> <p>Endpoint</p> <p>CTP20</p>
<b>Gatekeeper Password</b>	<p>Configure the password for the gatekeeper authentication.</p> <p><b>Note:</b> the default value is blank.</p>	<p>Web user interface</p> <p>Endpoint</p> <p>CTP20</p>




Parameter	Description	Configuration Method
<b>Protocol Monitor Port</b>	<p>Configure the port of the H.323 call signaling.</p> <p>If you fail to place an IP call to other party via H.323 protocol, it may be caused by the ISP limiting the 1720 port, so you need modify the protocol monitor port, and call the far site by dialing h323:ip:port.</p> <p><b>Note:</b> the default value is 1720. The modification on this port is only applicable for the H.323 IP call.</p>	Web user interface
<b>Local Early Media</b>	<p>Enable or disable the local early media feature on the device.</p> <ul style="list-style-type: none"> <li>• <b>Off</b>—the local system sends an Open Logical Channel (OLC) message and receives the acknowledgement message of OLC from the far site. After receiving the acknowledgement message, the system may transmit RTP streams to the far site.</li> <li>• <b>On</b>—the system sends an OLC message to the far site and then transmits RTP streams to the far site directly before receiving the acknowledgement message of OLC. For some gatekeepers, you need to enable this feature to avoid black screen during a call.</li> </ul> <p><b>Default:</b> Off.</p>	Web user interface

## H.323 Tunneling

The tunneling feature relies on H.225 system-to-system connectivity (via TCP) to pass H.245 messages, and uses the H.225 communication channel without creating a separate TCP socket connection (per H.323 call) for media control. H.323 tunneling is supported by the video conferencing system. To use H.323 tunneling, make ensure the participants in the call enable H.323 tunneling simultaneously. When you log in to the StarLeaf platform or use an H.323 account, you can configure the H.323 tunneling feature.

**Procedure**


- Do one of the following:
  - On your web user interface, go to **Account > H.323** or **Account > VC Platform > Video Conference Platform > Platform Type > StarLeaf**.
  - On your VCS, go to **More > Setting > Advanced > H.323**.  
On your VP59, tap **Setting > Advanced > H.323**.
  - On your CTP20, tap  > **Setting > Advanced > Account > H.323**.
- Configure and save the following settings:

Parameter	Description	Configuration Method
<b>H.323 Tunneling</b>	Enable or disable the system to send all signaling and media through the HTTP tunnel.  <b>Default:</b> Disabled.	Web user interface Endpoint CTP20

**Configuring the PSTN account**

PSTN box CPN10 is used to connect video conferencing system to the PSTN (Public Switched Telephone Network). It is a cost-effective solution for PSTN office. Up to 2 cascaded PSTN Boxes can be connected to video conferencing systems, which allow you to experience the conference conveniently in excellent speech quality with PSTN. For more information, refer to [Yealink PSTN Box CPN10 Quick Start Guide](#). After PSTN is connected, you can take the PSTN as one audio and use the PSTN to join the conference mixing with the audio and video.

**Procedure**

- Do one of the following:
  - On your web user interface, go to **Account > PSTN Account**.
  - On your VCS, go to **More > Setting > Advanced > PSTN Account**.  
On your VP59, go to **Setting > Advanced > PSTN Account**.
  - On your CTP20, go to  > **Setting > Advanced > Account > PSTN Account**.
- Configure and save the following settings:

Parameter	Description	Configuration Method
<b>Account Active/PSTN Account X</b>	Enable or disable the PSTN account X.  <b>Default:</b> On. X=1-2.	Web user interface Endpoint CTP20
<b>Label/PSTN Account Label</b>	Configure the PSTN account label.	Web user interface Endpoint CTP20

## Configuring the Video Conference Platform Account

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You can log into the following video conference platform:

- Yealink VC Cloud
- Yealink Meeting Server
- StarLeaf
- Zoom
- Pexip
- BlueJeans
- EasyMeet
- Videxio
- Custom



### Note:

If you purchase the VC200 Custom Edition for Yealink Cloud, your endpoint can register a Yealink Cloud account only. Other Cloud platforms are unavailable on your endpoint. What's more, you cannot register a SIP account or H.323 account, and cannot dial an IP address.

- [Registering a Yealink Cloud Account](#)
- [Registering a YMS Account](#)
- [Registering a StarLeaf Account](#)
- [Logging into Zoom Cloud Platform](#)
- [Registering a Pexip Account](#)
- [Logging into the BlueJeans Cloud Platform](#)
- [Registering an EasyMeet Account](#)
- [Logging into Videxio Platform](#)
- [Registering a Custom Account](#)

## Registering a Yealink Cloud Account

### About this task

The Yealink VC Cloud Management Service is a value-added and cloud-based service platform for Cloud systems. It offers significant convenience and cost-savings to integrators and business customers in terms of deployment, configuration and usage.

The cloud enterprise administrator uses the Yealink VC Cloud management service to assign each user an individual Yealink Cloud account. For more information, refer to [Yealink VC Cloud Management Service Administrator Guide](#).


### When you log into the Yealink VC Cloud Management Service, you can:

- Dial other Yealink Cloud accounts to establish a conversation.
- View and join scheduled conferences.
- Initiate and join meet now conferences.
- Join the permanent VMR.
- Manage Yealink Cloud video conferences.
- If you purchase a collaboration service, you can use the whiteboard and content sharing features during the conference calls.

For detailed introduction, refer to [Yealink Full HD Video Conferencing System User Guide](#).

**Procedure**

## 1. Do one of the following:

- On your web user interface, go to **Account > VC Platform**.
- On your VCS, go to **More > Setting > Advanced > Video Conference Platform**.  
On your VP59, go to **Setting > Advanced > Video Conference Platform**.
- On your CTP20, go to  > **Setting > Advanced > Account > Video Conference Platform**.

## 2. Configure and save the following settings:

Parameter	Description	Configuration Method
<b>Cloud Account</b>	Enables the Cloud feature. <b>Note:</b> if it is set to <b>Off</b> , your device cannot register a Yealink Cloud account.	Web user interface Endpoint CTP20
<b>Platform Type</b>	Select Yealink VC Cloud Management Service.	Web user interface Endpoint CTP20
<b>Username</b>	Specify the username for logging into the Yealink VC Cloud Management Service platform. <b>Note:</b> the default value is blank. Only when you select to log into Yealink VC Cloud Management Service via Username/password can this feature be configured.	Web user interface Endpoint CTP20
<b>Password</b>	Specify the Password for logging into the Yealink VC Cloud Management Service platform. <b>Note:</b> the default value is blank. Only when you select to log into Yealink VC Cloud Management Service via Username/password can this feature be configured.	Web user interface Endpoint CTP20
<b>Server Host/Server</b>	The IP address or the domain name of Yealink VC Cloud Management Service platform. <b>Default:</b> yealinkvc.com.	Web user interface Endpoint CTP20

Parameter	Description	Configuration Method
<b>Remember password</b>	<p>Enable or disable the system to remember the password.</p> <p><b>Note:</b> the default value is <b>On</b>.</p> <p>If it is set to <b>On</b>, the password will be filled in automatically when you log in next time.</p> <p>Only when you select to log into Yealink VC Cloud Management Service via Username/password can this feature be configured.</p>	<p>Endpoint</p> <p>CTP20</p>

**Note:**

A Yealink Cloud account can be logged into 5 devices at most simultaneously.

## Registering a YMS Account

You can use Yealink YMS account to log into Yealink Meeting Server (YMS).

### About this task

For more information on how to add YMS accounts, refer to [Yealink Meeting Server Administrator Guide](#).


### When you log into the Yealink Meeting Server, you can:

- Dial other YMS accounts to establish a conversation.
- View and join scheduled conferences.
- Initiate and join meet now conferences.
- Join the permanent VMR.
- Manage YMS video conferences.
- If you purchase a collaboration service, you can use the whiteboard collaboration and content sharing collaboration (supported by V23 version or later) during the conference calls.

For detailed introduction, refer to [Yealink Full HD Video Conferencing System User Guide](#).

### Procedure

#### 1. Do one of the following:

- On your web user interface, go to **Account > VC Platform**.
- On your VCS, go to **More > Setting > Advanced > Video Conference Platform**.  
On your VP59, go to **Setting > Advanced > Video Conference Platform**.
- On your CTP20, go to  > **Setting > Advanced > Account > Video Conference Platform**.

#### 2. Configure and save the following settings:

Parameter	Description	Configuration Method
<b>Cloud Account</b>	<p>Enables the Cloud feature.</p> <p><b>Note:</b> if it is set to <b>Off</b>, your device cannot log into YMS.</p>	<p>Web user interface</p> <p>Endpoint</p> <p>CTP20</p>

Parameter	Description	Configuration Method
<b>Platform Type</b>	Select YMS.	Web user interface Endpoint CTP20
<b>ID</b>	Specify the ID when registering this YMS account. <b>Note:</b> the default value is blank.	Web user interface Endpoint CTP20
<b>Password</b>	Specify the password when registering this YMS account. <b>Note:</b> the default value is blank.	Web user interface Endpoint CTP20
<b>Server Host/Server</b>	The IP address or the domain name of Yealink meeting server. <b>Note:</b> the default value is blank.	Web user interface Endpoint CTP20
<b>Port</b>	Select a port of Yealink meeting server. <b>Note:</b> the default port number is 0.	Web user interface
<b>Outbound Proxy Server/ Outbound Server</b>	The IP address or domain name of the outbound proxy server. <b>Note:</b> the default value is blank.	Web user interface Endpoint CTP20
<b>Remember password</b>	Enable or disable the system to remember the password. <b>Note:</b> the default value is Off. If it is set to <b>On</b> , the password will be filled in automatically when you log in next time.	Endpoint CTP20



**Note:**

A YMS account can be logged into 5 devices at most simultaneously.

If the enterprise administrator enables the Device upgrade feature on Yealink Meeting Server, video conferencing systems with YMS accounts logged into will upgrade the firmware automatically once they receive the new firmware from Yealink Meeting Server.

## Registering a StarLeaf Account


You can log into the StarLeaf Cloud platform.

### About this task

When you place a call using the StarLeaf Cloud account, you can:

- Call the other StarLeaf Cloud account to establish a point to point call.
- Dial the Meeting ID to join the Virtual Meeting Rooms.
- Call between StarLeaf Cloud account and Microsoft Skype for Business/Lync account.

### Procedure

1. Do one of the following:
  - On your web user interface, go to **Account > VC Platform**.
  - On your VCS, go to **More > Setting > Advanced > Video Conference Platform**.  
On your VP59, go to **Setting > Advanced > Video Conference Platform**.
  - On your CTP20, go to  > **Setting > Advanced > Account > Video Conference Platform**.
2. Configure and save the following settings:

Parameter	Description	Configuration Method
<b>Cloud Account</b>	Enables the Cloud feature. <b>Note:</b> if it is set to <b>Off</b> , your device cannot log into the StarLeaf Cloud platform.	Web user interface Endpoint CTP20
<b>Platform Type</b>	Select StarLeaf.	Web user interface Endpoint CTP20
<b>QCP Code</b>	Configure the quick access code to log into the StarLeaf Cloud platform. <b>Note:</b> the default value is blank.	Web user interface Endpoint CTP20




#### Note:

The system that logs into the StarLeaf Cloud platform will upgrade the firmware automatically once the current firmware version is different from the one on StarLeaf server.

## Logging into Zoom Cloud Platform

You can log into Zoom cloud platform and call into the permanent VMRs to join the video conferences with other participants.

### Procedure

1. Do one of the following:
  - On your web user interface, go to **Account > VC Platform**.
  - On your VCS, go to **More > Setting > Advanced > Video Conference Platform**.  
On your VP59, go to **Setting > Advanced > Video Conference Platform**.
  - On your CTP20, go to  > **Setting > Advanced > Account > Video Conference Platform**.

## 2. Configure and save the following settings:

Parameter	Description	Configuration Method
<b>Cloud Account</b>	Enables the Cloud feature. <b>Note:</b> if it is set to <b>Off</b> , your device cannot log into the Zoom Cloud Platform.	Web user interface Endpoint CTP20
<b>Platform Type</b>	Select Zoom.	Web user interface Endpoint CTP20
<b>Server/ Server Host</b>	The IP address or the domain name of the Zoom server. <b>Default:</b> zoomcrc.com	Web user interface Endpoint CTP20
<b>Transport</b>	Specify the transport protocol for transmitting the SIP signaling.  The supported protocols are as follows: <ul style="list-style-type: none"> <li>• <b>UDP</b>—it provides the best transmission for SIP signaling.</li> <li>• <b>TCP</b>—it provides a reliable transmission for SIP signaling.</li> <li>• <b>TLS</b>—it provides a safe transmission for SIP signaling. TLS is available only when the device is registered on a SIP server that supports TLS.</li> <li>• <b>DNS-NAPTR</b>—the device performs the DNS NAPTR and SRV request to find the service type and the port if no server port is given.</li> </ul> <b>Default:</b> TCP.	Web user interface
<b>Server Expires</b>	The registration timeout (in seconds) of the device.  After the timeout, the device will send the registration request to the server again. <b>Default:</b> 3600 seconds.	Web user interface



Parameter	Description	Configuration Method
<b>Keep Alive Interval</b>	Configure the interval (in seconds) that the device sends keep-alive messages to the SIP server, so that the SIP server can remain connected to the device.  <b>Default:</b> 30 seconds.	Web user interface

## Registering a Pexip Account

You can register the Pexip account.


### About this task

When you place a call using the Pexip account, you can:

- Call the device alias to establish a point to point call.
- Call the aliases to join the Virtual Meeting Rooms, Virtual Auditoriums or Virtual Receptions.
- Dial Microsoft Skype for Business/Lync account.

### Procedure

1. Do one of the following:

- On your web user interface, go to **Account > VC Platform**.
- On your VCS, go to **More > Setting > Advanced > Video Conference Platform**.  
On your VP59, go to **Setting > Advanced > Video Conference Platform**.
- On your CTP20, go to  > **Setting > Advanced > Account > Video Conference Platform**.

2. Configure and save the following settings:

Parameter	Description	Configuration Method
<b>Cloud Account</b>	Enables the Cloud feature.  <b>Note:</b> if it is set to <b>Off</b> , your device cannot register a Pexip account.	Web user interface Endpoint CTP20
<b>Platform Type</b>	Select Pexip.	Web user interface Endpoint CTP20
<b>Alias</b>	Specify the alias when registering a Pexip account.  <b>Note:</b> the default value is blank.	Web user interface Endpoint CTP20
<b>Username</b>	Specify the username for this Pexip account.  <b>Note:</b> the default value is blank.	Web user interface Endpoint CTP20

Parameter	Description	Configuration Method
<b>Password</b>	Specify the password for this Pexip account. <b>Note:</b> the default value is blank.	Web user interface Endpoint CTP20
<b>Server Host/Server</b>	The IP address or domain name of the Pexip server. <b>Note:</b> the default value is blank.	Web user interface Endpoint CTP20
<b>Port</b>	The port of the Pexip server. <b>Default:</b> 0.	Web user interface Endpoint CTP20
<b>Remember password</b>	Enable or disable the system to remember the password. <b>Note:</b> the default value is Off. If it is set to <b>On</b> , the password will be filled in automatically when you enter the username next time.	Endpoint CTP20
<b>Transport</b>	Specify the transport protocol for transmitting the SIP signaling. The supported protocols are as follows: <ul style="list-style-type: none"> <li>• <b>UDP</b>—it provides the best transmission for SIP signaling.</li> <li>• <b>TCP</b>—it provides a reliable transmission for SIP signaling.</li> <li>• <b>TLS</b>—it provides a safe transmission for SIP signaling. TLS is available only when the device is registered on a SIP server that supports TLS.</li> <li>• <b>DNS-NAPTR</b>—the device performs the DNS NAPTR and SRV request to find the service type and the port if no server port is given.</li> </ul> <b>Default:</b> TCP.	Web user interface

Parameter	Description	Configuration Method
<b>Server Expires</b>	The registration timeout (in seconds) of the device.  After the timeout, the device will send the registration request to the server again.  <b>Default:</b> 3600 seconds.	Web user interface
<b>Keep Alive Interval</b>	Configure the interval (in seconds) that the device sends keep-alive messages to the SIP server, so that the SIP server can remain connected to the device.  <b>Default:</b> 30 seconds.	Web user interface

**Note:**

Yealink VCS also allows you to register a Pexip account via the standard H.323 or SIP protocol. For more information, refer to [Setting SIP Account/SIP IP Call](#) and [Setting H. 323 Account/H.323 IP Call](#).

## Logging into the BlueJeans Cloud Platform

You can log into the BlueJeans Cloud platform and do the followings:


### About this task

You can do the following things after logging into the BlueJeans Cloud Platform:

- Call into the Virtual Meeting Room to join the video conference with other devices.
- Receive meeting schedule from the BlueJeans Cloud platform.

### Procedure

1. Do one of the following:

- On your web user interface, go to **Account > VC Platform**.
- On your VCS, go to **More > Setting > Advanced > Video Conference Platform**.  
On your VP59, go to **Setting > Advanced > Video Conference Platform**.
- On your CTP20, go to  > **Setting > Advanced > Account > Video Conference Platform**.

2. Configure and save the following settings:

Parameter	Description	Configuration Method
<b>Cloud Account</b>	Enables the Cloud feature.  <b>Note:</b> if it is set to <b>Off</b> , your device cannot log into the BlueJeans Cloud Platform.	Web user interface  Endpoint  CTP20

Parameter	Description	Configuration Method
<b>Platform Type</b>	Select the BlueJeans Cloud Platform.	Web user interface Endpoint CTP20
<b>Server Host/Server</b>	The IP address or the domain name of the BlueJeans server. <b>Default:</b> bjn.vc.	Web user interface Endpoint CTP20
<b>Transport</b>	Specify the transport protocol for transmitting the SIP signaling.  The supported protocols are as follows: <ul style="list-style-type: none"> <li>• <b>UDP</b>—it provides the best transmission for SIP signaling.</li> <li>• <b>TCP</b>—it provides a reliable transmission for SIP signaling.</li> <li>• <b>TLS</b>—it provides a safe transmission for SIP signaling. TLS is available only when the device is registered on a SIP server that supports TLS.</li> <li>• <b>DNS-NAPTR</b>—the device performs the DNS NAPTR and SRV request to find the service type and the port if no server port is given.</li> </ul> <b>Default:</b> TCP.	Web user interface
<b>Server Expires</b>	The registration timeout (in seconds) of the device.  After the timeout, the device will send the registration request to the server again. <b>Default:</b> 3600 seconds.	Web user interface
<b>Keep Alive Interval</b>	Configure the interval (in seconds) that the device sends keep-alive messages to the SIP server, so that the SIP server can remain connected to the device. <b>Default:</b> 30 seconds.	Web user interface

## Registering an EasyMeet Account


### About this task

You can register the EasyMeet account and do the following:

### When you place a call using the EasyMeet account, you can:

- Dial the EasyMeet account to establish a point-to-point call.
- Call into the Virtual Meeting Room to join the video conference with other devices.
- Receive meeting schedule from the EasyMeet Cloud platform.

### Procedure

1. Do one of the following:
  - On your web user interface, go to **Account > VC Platform**.
  - On your VCS, go to **More > Setting > Advanced > Video Conference Platform**.  
On your VP59, go to **Setting > Advanced > Video Conference Platform**.
  - On your CTP20, go to  > **Setting > Advanced > Account > Video Conference Platform**.
2. Configure and save the following settings:

Parameter	Description	Configuration Method
<b>Cloud Account</b>	Enables the Cloud feature. <b>Note:</b> if it is set to <b>Off</b> , your device cannot register an EasyMeet account.	Web user interface Endpoint CTP20
<b>Platform Type</b>	Select EasyMeet.	Web user interface Endpoint CTP20
<b>Username</b>	Specify the username for this EasyMeet account. <b>Note:</b> the default value is blank.	Web user interface Endpoint CTP20
<b>Password</b>	Specify the password for this EasyMeet account. <b>Note:</b> the default value is blank.	Web user interface Endpoint CTP20
<b>Server Host/Server</b>	The IP address or the domain name of the EasyMeet server. <b>Note:</b> the default value is blank.	Web user interface Endpoint CTP20
<b>Outbound Proxy Server/ Outbound Server</b>	The IP address or domain name of the outbound proxy server. <b>Note:</b> the default value is blank.	Web user interface Endpoint CTP20

Parameter	Description	Configuration Method
<b>Remember password</b>	<p>Enable or disable the system to remember the password.</p> <p><b>Note:</b> the default value is <b>On</b>.</p> <p>If it is set to <b>On</b>, the password will be filled in automatically when you enter the username next time.</p>	Endpoint CTP20
<b>Transport</b>	<p>Specify the transport protocol for transmitting the SIP signaling.</p> <p>The supported protocols are as follows:</p> <ul style="list-style-type: none"> <li>• <b>UDP</b>—it provides the best transmission for SIP signaling.</li> <li>• <b>TCP</b>—it provides a reliable transmission for SIP signaling.</li> <li>• <b>TLS</b>—it provides a safe transmission for SIP signaling. TLS is available only when the device is registered on a SIP server that supports TLS.</li> <li>• <b>DNS-NAPTR</b>—the device performs the DNS NAPTR and SRV request to find the service type and the port if no server port is given.</li> </ul> <p><b>Default:</b> TLS.</p>	Web user interface
<b>Server Expires</b>	<p>The registration timeout (in seconds) of the device.</p> <p>After the timeout, the device will send the registration request to the server again.</p> <p><b>Default:</b> 3600 seconds.</p>	Web user interface
<b>Keep Alive Interval</b>	<p>Configure the interval (in seconds) that the device sends keep-alive messages to the SIP server, so that the SIP server can remain connected to the device.</p> <p><b>Default:</b> 30 seconds.</p>	Web user interface

## Logging into Videxio Platform

You can log into Videxio platform and Videxio accounts will be automatically logged into the devices.


### About this task

When you place a call using the Videxio account, you can:

- Dial Videxio accounts to establish a point-to-point call.
- Dial third-party accounts registered in the Videxio platform to establish a point-to-point call.
- Call into the Virtual Meeting Room to join the video conference with other devices.

### Procedure

1. Do one of the following:

- On your web user interface, go to **Account > VC Platform**.
- On your VCS, go to **More > Setting > Advanced > Video Conference Platform**.  
On your VP59, go to **Setting > Advanced > Video Conference Platform**.
- On your CTP20, go to  > **Setting > Advanced > Account > Video Conference Platform**.

2. Configure and save the following settings:


Parameter	Description	Configuration Method
<b>Cloud Account</b>	Enables the Cloud feature. <b>Note:</b> if it is set to <b>Off</b> , your device cannot log into the Videxio platform.	Web user interface Endpoint CTP20
<b>Platform Type</b>	Select Videxio.	Web user interface Endpoint CTP20

## Registering a Custom Account

You can register a custom account for communication.

### Procedure

1. Do one of the following:

- On your web user interface, go to **Account > VC Platform**.
- On your VCS, go to **More > Setting > Advanced > Video Conference Platform**.  
On your VP59, go to **Setting > Advanced > Video Conference Platform**.
- On your CTP20, go to  > **Setting > Advanced > Account > Video Conference Platform**.

2. Configure and save the following settings:

Parameter	Description	Configuration Method
<b>Cloud Account</b>	Enables the Cloud feature. <b>Note:</b> if it is set to <b>Off</b> , your device cannot register a custom account.	Web user interface Endpoint CTP20

Parameter	Description	Configuration Method
<b>Platform Type</b>	Select Custom.	Web user interface Endpoint CTP20
<b>Label</b>	Configure the label for this custom account. <b>Note:</b> the default value is blank.	Web user interface Endpoint CTP20
<b>Username</b>	Specify the username for this custom account. <b>Note:</b> the default value is blank.	Web user interface Endpoint CTP20
<b>Register Name</b>	Specify the register name for this custom account. <b>Note:</b> the default value is blank.	Web user interface Endpoint CTP20
<b>Password</b>	Specify the password for this custom account. <b>Note:</b> the default value is blank.	Web user interface Endpoint CTP20
<b>Server Host/Server</b>	The IP address or the domain name of the server. <b>Note:</b> the default value is blank.	Web user interface Endpoint CTP20
<b>Port</b>	Configure the port of the custom server. <b>Note:</b> the default port number is 0. The value can be any integer from 0 to 65535.	Web user interface Endpoint CTP20
<b>Remember password</b>	Enable or disable the system to remember the password. <b>Note:</b> the default value is Off. If it is set to <b>On</b> , the password will be filled automatically when you enter the username next time.	Endpoint CTP20




Parameter	Description	Configuration Method
<b>Transport</b>	<p>Specify the transport protocol for transmitting the SIP signaling.</p> <p>The supported protocols are as follows:</p> <ul style="list-style-type: none"> <li>• <b>UDP</b>—it provides the best transmission for SIP signaling.</li> <li>• <b>TCP</b>—it provides a reliable transmission for SIP signaling.</li> <li>• <b>TLS</b>—it provides a safe transmission for SIP signaling. TLS is available only when the device is registered on a SIP server that supports TLS.</li> <li>• <b>DNS-NAPTR</b>—the device performs the DNS NAPTR and SRV request to find the service type and the port if no server port is given.</li> </ul> <p><b>Default:</b> TCP.</p>	Web user interface
<b>Server Expires</b>	<p>The registration timeout (in seconds) of the device.</p> <p>After the timeout, the device will send the registration request to the server again.</p> <p><b>Default:</b> 3600 seconds.</p>	Web user interface
<b>Keep Alive Interval</b>	<p>Configure the interval (in seconds) that the device sends keep-alive messages to the SIP server, so that the SIP server can remain connected to the device.</p> <p><b>Default:</b> 30 seconds.</p>	Web user interface

## Quickly Switching Platform

If you use more than one video conference platforms to log in to the system, you may use Yealink YMS and Zoom or Yealink YMS and BlueJeans. You can log in to the accounts of different platforms in advance on the system and enable the quickly switch platform feature. Users can quickly select the account from the account area in the top-right corner of CTP20.

**Procedure**


1. Do one of the following:
  - On your web user interface, go to **Account > VC Platform > Log Out**.
  - On your CTP20, go to  > **Setting > Advanced > Account > Video Conference Platform**.
2. Configure and save the following settings:

Parameter	Description	Configuration Method
<b>Quickly Switch Platform</b>	Enable or disable the quickly switch platform feature.  <b>Default:</b> Disable	Web user interface  CTP20

## Logging out of the Video Conference Platform

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**Procedure**

1. Do one of the following:
  - On your web user interface, go to **Account > VC Platform > Log Out**.
  - On your VCS, go to **More > Setting > Advanced > Video Conference Platform > Log out**.  
On your VP59, tap **Setting > Advanced > Video Conference Platform > Log out**.
  - On your CTP20, go to  > **Setting > Advanced > Account > Video Conference Platform > Log out**.  
It prompts whether to log out the current account.
2. Confirm the action.

## Configuring Basic Settings

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- [Configuring the Site Name](#)
- [Setting the Language](#)
- [Configuring Key Tone](#)
- [Configure the Time and Date](#)
- [Setting Screen Saver for VP59](#)
- [Setting Wallpaper for VP59](#)
- [Enabling/Disabling the Clock for the VP59](#)
- [Setting the Ring Tone for the VP59](#)
- [Configuring the Display to Wake up the Sleeping Endpoint](#)
- [Configuring Automatic Sleep Time](#)
- [Allowing Website Snapshot](#)
- [Setting the Screen Saver Wait Time](#)
- [Customizing the Local Interface for the System](#)
- [Muting the Microphone](#)
- [Configuring Microphone Mute Mode](#)
- [Configuring the Keyboard Input Method](#)
- [Configuring USB Storage](#)


- [Configuring Local Storage](#)
- [Configuring the Screenshot](#)
- [Configuring to Automatically Upload Screenshots to the YMS Server](#)
- [Configuring Video Recording](#)
- [Basic Settings for the CP960 Conference Phone](#)
- [Configuring \\* Key for Default Input](#)

## Configuring the Site Name

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You can customize the site name of the system, which is displayed in the status bar of the device, and displays on the far-site screen during the call.

### Procedure

1. Do one of the following:
  - On your web user interface, go to **Setting > General > General Information > Site Name**.
  - On your VCS, go to **More > Setting > Basic > Site Name**.  
On your VP59, tap **Setting > Basic > Site Name**.
  - On your CTP20, tap  > **Setting > Basic > General > Site Name**.
2. Configure and save the following settings:


Parameter	Description	Configuration Method
<b>Site Name</b>	Configure the site name of the system. <b>Note:</b> you can enter 64 characters at most.	Web user interface Endpoint CTP20

## Setting the Language

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You can specify a language displayed in the monitor and the web user interface respectively. The CP960 conference phone will detect and use the same language as the monitor.


### Procedure

1. Do one of the following:
  - On your web user interface, click **Language** at the top of the web page.
  - On your VCS, go to **More > Setting > Basic > Language**.  
On your VP59, tap **Setting > Basic > Language**.
  - On your CTP20, tap  > **Setting > Basic > General > Language**.
2. Select the desired language.
3. Save the change.

## Configuring Key Tone

You can enable the key tone feature. When you press any key on the remote control or tap the onscreen dial pad on the CP960 conference phone, the system will produce a sound. For VP59, when you press any key on the phone or tap any key on the Dial page, the device will produce a sound.

### Procedure

- Do one of the following:
  - On your web user interface, go to **Setting > General > General Information**.
  - On your VCS, go to **More > Setting > Basic**.  
On your VP59, tap **Setting > Basic**.
  - On your CTP20, tap  > **Setting > Basic > General**.
- Enable/disable **Key Tone**.

## Configure the Time and Date

Your system can obtain the time and date from SNTP (Simple Network Time Protocol) time server automatically. You can also manually configure the time and date.

- [Time Zone](#)
- [NTP Settings](#)
- [Configuring the DST](#)
- [Manually Configuring the Time and Date](#)
- [Customizing the Time and Date Format](#)
- [Setting the Time Reminder](#)

### Time Zone

You can set the time difference between GMT (Greenwich Mean Time) and your location. Therefore, different areas can keep the time consistent for the commence and communication. The following table lists the available time zone on video conferencing system.

Time Zone	Time Zone Name	Time Zone	Time Zone Name
-11:00	Samoa	+01:00	Poland (Warsaw)
-10:00	United States-Hawaii-Aleutian	+02:00	Estonia (Tallinn)
-10:00	United States-Alaska-Aleutian	+02:00	Finland (Helsinki)
-09:30	French Polynesia	+02:00	Gaza Strip (Gaza)
-09:00	United States-Alaska Time	+02:00	Greece (Athens)
-08:00	Canada (Vancouver, Whitehorse)	+02:00	Israel (Tel Aviv)
-08:00	Mexico (Tijuana, Mexicali)	+02:00	Jordan (Amman)

Time Zone	Time Zone Name	Time Zone	Time Zone Name
-08:00	United States-Pacific Time	+02:00	Latvia (Riga)
-07:00	Canada (Edmonton, Calgary)	+02:00	Lebanon (Beirut)
-07:00	Mexico (Mazatlan, Chihuahua)	+02:00	Moldova (Kishinev)
-07:00	United States-Mountain Time	+02:00	Russia (Kaliningrad)
-07:00	United States-MST no DST	+02:00	Romania (Bucharest)
-06:00	Canada-Manitoba (Winnipeg)	+02:00	Syria (Damascus)
-06:00	Chile (Easter Islands)	+02:00	Turkey (Ankara)
-06:00	Mexico (Mexico City, Acapulco)	+02:00	Ukraine (Kyiv, Odessa)
-06:00	United States-Central Time	+03:00	East Africa Time
-05:00	Bahamas (Nassau)	+03:00	Iraq (Baghdad)
-05:00	Canada (Montreal, Ottawa, Quebec)	+03:00	Russia (Moscow)
-05:00	Cuba (Havana)	+03:30	Iran (Teheran)
-05:00	United States-Eastern Time	+04:00	Armenia (Yerevan)
-04:30	Venezuela (Caracas)	+04:00	Azerbaijan (Baku)
-04:00	Canada (Halifax, Saint John)	+04:00	Georgia (Tbilisi)
-04:00	Chile (Santiago)	+04:00	Kazakhstan (Aktau)
-04:00	Paraguay (Asuncion)	+04:00	Russia (Samara)
-04:00	United Kingdom-Bermuda (Bermuda)	+04:30	Afghanistan (Kabul)
-04:00	United Kingdom (Falkland Islands)	+05:00	Kazakhstan (Aqtobe)
-04:00	Trinidad&Tobago	+05:00	Kyrgyzstan (Bishkek)
-03:30	Canada-New Foundland (St.Johns)	+05:00	Pakistan (Islamabad)
-03:30	Denmark-Greenland (Nuuk)	+05:00	Russia (Chelyabinsk)
-03:00	Argentina (Buenos Aires)	+05:30	India (Calcutta)
-03:00	Brazil (no DST)	+05:45	Nepal (Katmandu)

Time Zone	Time Zone Name	Time Zone	Time Zone Name
-03:00	Brazil (DST)	+06:00	Kazakhstan (Astana, Almaty)
-02:30	Newfoundland and Labrador	+06:00	Russia (Novosibirsk, Omsk)
-02:00	Brazil (no DST)	+06:30	Myanmar (Naypyitaw)
-01:00	Portugal (Azores)	+07:00	Russia (Krasnoyarsk)
0	GMT	+07:00	Thailand (Bangkok)
0	Greenland	+08:00	China (Beijing)
0	Denmark-Faroe Islands (Torshavn)	+08:00	Singapore (Singapore)
0	Ireland (Dublin)	+08:00	Australia (Perth)
0	Portugal (Lisboa, Porto, Funchal)	+08:00	Russia (Irkutsk, Ulan-Ude)
0	Spain-Canary Islands (Las Palmas)	+08:45	Eucla
0	United Kingdom (London)	+09:00	Korea (Seoul)
0	Morocco	+09:00	Japan (Tokyo)
+01:00	Albania (Tirane)	+09:00	Russia (Yakutsk, Chita)
+01:00	Austria (Vienna)	+09:30	Australia (Adelaide)
+01:00	Belgium (Brussels)	+09:30	Australia (Darwin)
+01:00	Caicos	+10:00	Australia (Sydney, Melbourne, Canberra)
+01:00	Chad	+10:00	Australia (Brisbane)
+01:00	Spain (Madrid)	+10:00	Australia (Hobart)
+01:00	Croatia (Zagreb)	+10:00	Russia (Vladivostok)
+01:00	Czech Republic (Prague)	+10:30	Australia (Lord Howe Islands)
+01:00	Denmark (Kopenhagen)	+11:00	New Caledonia (Noumea)
+01:00	France (Paris)	+11:00	Russia (Srednekolymsk Time)
+01:00	Germany (Berlin)	+11:30	Norfolk Island
+01:00	Hungary (Budapest)	+12:00	New Zealand (Wellington, Auckland)
+01:00	Italy (Rome)	+12:00	Russia (Kamchatka Time)
+01:00	Luxembourg (Luxembourg)	+12:45	New Zealand (Chatham Islands)


Time Zone	Time Zone Name	Time Zone	Time Zone Name
+01:00	Macedonia (Skopje)	+13:00	Tonga (Nukualofa)
+01:00	Netherlands (Amsterdam)	+13:30	Chatham Islands
+01:00	Namibia (Windhoek)	+14:00	Kiribati

## NTP Settings

You can set a NTP time server for the desired area as required. The NTP time server address can be offered by the DHCP server or configured manually.

### Procedure

1. Do one of the following:

- On your web user interface, go to **Setting > Date&Time**.
- On your VCS, go to **More > Setting > Basic > Date & Time**.  
On your VP59, tap **Setting > Basic > Date & Time**.
- On your CTP20, tap  > **Setting > Basic > General > Date & Time**.

2. Configure and save the following settings:


Parameter	Description	Configuration Method
<b>Manual Time/Time Type</b>	Select <b>Off/SNTP Setting</b> to obtain the time and date from the NTP server automatically.	Web user interface Endpoint CTP20
<b>DHCP Time</b>	Enable or disable the system to update time with the offset time offered by the DHCP server. <b>Note:</b> the default value is Off. It is only available when the time zone is GMT 0.	Web user interface
<b>Time Zone</b>	Configure the time zone. For more information on available time zone, refer to <a href="#">Time Zone</a> . <b>Note:</b> the default value is +8 China (Beijing).	Web user interface Endpoint CTP20
<b>NTP Primary Server/Primary Server</b>	Configure the NTP primary server. <b>Default:</b> pool.ntp.org.	Web user interface Endpoint CTP20
<b>NTP Secondary Server/Secondary Server</b>	Configure the NTP secondary server. <b>Default:</b> pool.ntp.org.	Web user interface Endpoint CTP20

Parameter	Description	Configuration Method
<b>Synchronism (15~86400s)</b>	Configure the interval (in seconds) between time&date update from the NTP server. <b>Default:</b> 1000 seconds.	Web user interface

## Configuring the DST

You can set Daylight Saving Time (DST) for the system according to the location. By default, the DST is set to Automatic, so it can be adjusted automatically from the current time zone configuration.

### Procedure

- Do one of the following:
  - On your web user interface, go to **Setting > Date&Time**.
  - On your VCS, go to **More > Setting > Basic > Date & Time**.  
On your VP59, tap **Setting > Basic > Date & Time**.
  - On your CTP20, tap  > **Setting > Basic > General > Date & Time**.
- Configure and save the following settings:

Parameter	Description	Configuration Method
<b>Daylight Saving Time</b>	Configure the type of DST. The available types for the system are as below: <ul style="list-style-type: none"> <li><b>Disabled:</b> do not use DST.</li> <li><b>Enabled</b>-use DST. You can manually configure the start time, the end time and the offset according to your needs.</li> <li><b>Automatic</b>-use DST. DST will be configured automatically. You do not need to manually configure the start time, the end time and the offset according to your needs.</li> </ul> <b>Default:</b> Auto.	Web user interface Endpoint CTP20




Parameter	Description	Configuration Method
<b>Fixed Type</b>	<p>Specify the DST calculation methods.</p> <p>The available types for the system are as below:</p> <ul style="list-style-type: none"> <li>• <b>By Date</b>- specifies the month, day and hour to be the DST start/end date.</li> <li>• <b>By Week</b>- specifies the month, week, day and hour to be the DST start/end date.</li> </ul> <p><b>Note:</b> It only works when you enable Daylight Saving Time.</p>	Web user interface
<b>Start Date</b>	<p>When you select By Date as the fixed type, configure the start time of DST.</p> <p><b>Note:</b> It only works when you enable Daylight Saving Time.</p>	Web user interface
<b>End Date</b>	<p>When you select By Date as the fixed type, configure the end time of DST.</p> <p><b>Note:</b> It only works when you enable Daylight Saving Time.</p>	Web user interface
<b>DST Start Month</b>	<p>When you select By Week as the fixed type, configures the start time of DST.</p> <p><b>Note:</b> It only works when you enable Daylight Saving Time.</p>	Web user interface
<b>DST Start Day of Week</b>		
<b>DST Start Day of Week Last in Month</b>		
<b>Start Hour of Day</b>		
<b>DST Stop Month</b>	<p>When the DST calculation method is set to By month, configures the end time of DST.</p> <p><b>Note:</b> It only works when you enable Daylight Saving Time.</p>	Web user interface
<b>DST Stop Day of Week</b>		
<b>DST Stop Day of Week Last in Month</b>		
<b>End Hour of Day</b>		
<b>Offset(minutes)</b>	<p>Specify the DST offset time (in minutes).</p> <p>Valid value: from -300 to +300.</p> <p><b>Note:</b> It only works when you enable Daylight Saving Time.</p>	Web user interface

## Manually Configuring the Time and Date

You can set the time and date manually when the system cannot obtain the time and date from the NTP time server.

### Procedure

- Do one of the following:
  - On your web user interface, go to **Setting > Date&Time**.
  - On your VCS, go to **More > Setting > Basic > Date & Time**.  
On your VP59, tap **Setting > Basic > Date & Time**.
  - On your CTP20, tap  > **Setting > Basic > General > Date & Time**.
- Configure and save the following settings:


Parameter	Description	Configuration Method
<b>Manual Time/Time Type</b>	Select <b>On/Manual Setting</b> to obtain the time and date from the NTP server automatically.	Web user interface Endpoint CTP20

- Configure the time and date.
- Save the change.

## Customizing the Time and Date Format

You can customize the time and date by choosing among a variety of time and date formats.

### Procedure

- Do one of the following:
  - On your web user interface, go to **Setting > Date&Time**.
  - On your VCS, go to **More > Setting > Basic > Date & Time**.  
On your VP59, tap **Setting > Basic > Date & Time**.
  - On your CTP20, tap  > **Setting > Basic > General > Date & Time**.
- Configure and save the following settings:

Parameter	Description	Configuration Method
<b>Time Format</b>	Configure the time format. <ul style="list-style-type: none"> <li>Hour 12</li> <li>Hour 24</li> </ul> <b>Default:</b> Hour 24.	Web user interface Endpoint CTP20

Parameter	Description	Configuration Method
<b>Date Format/Date</b>	<p>Configure the date format.</p> <p>The supported formats are as below:</p> <ul style="list-style-type: none"> <li>• WWW MMM DD</li> <li>• DD-MMM-YY</li> <li>• YYYY-MM-DD</li> <li>• DD/MM/YYYY</li> <li>• MM/DD/YY</li> <li>• DD MMM YYYY</li> <li>• WWW DD MMM</li> </ul> <p><b>Default:</b> YYYY-MM-DD.</p> <p>Note:</p> <p>“WWW” represents the abbreviation of the week;</p> <p>“DD” represents a two-digit day;</p> <p>“MMM” represents the first three letters of the month;</p> <p>“YYYY” represents a four-digit year, and “YY” represents the last two digits of the year.</p>	<p>Web user interface</p> <p>Endpoint</p> <p>CTP20</p>

## Setting the Time Reminder

The system displays a clock on the hour during a call. You can disable it if you do not want to pay attention to time. This feature is not applicable to VP59.

### Procedure

1. On your web user interface, go to **Setting > Date&Time**.
2. Configure and save the following settings:

Parameter	Description	Configuration Method
<b>Time Reminder</b>	<p>Enable or disable the system to display a clock on the hour during a call.</p> <p><b>Default:</b> On.</p>	<p>Web user interface</p>

3. Configure the time and date.

## Setting Screen Saver for VP59

The screen saver automatically starts after the VP59 is inactive for a specified amount of time. The VP59 uses the system's built-in screen saver by default. You can set the time the phone is idle before the screen saver starts, upload the screen saver pictures and select the screen saver you want.

### About this task

Either the smaller or the larger picture will be scaled proportionally to fit the screen. The screen saver picture format must meet the following:

Format	Resolution	Single File Size
*.jpg/*.png/*.bmp/*.jpeg	<=2.0 megapixels	<=5MB

### Procedure


1. On your web user interface, go to **Setting > General > Screensaver**.

2. In the **Screensaver Wait Time** field, select the desired time.

If you do not need a screen saver, you can choose to disable it.

3. In the **Screensaver Type** field, select a desired type of screen saver .

- If you select **System**, when the screen saver starts, the VP59 displays the picture of the screen saver built into the system.
- If you select **Custom**, in the **Upload Screensaver** field, click **Browse** to select a desired picture, and then click **Upload**.

 **Tip:** Repeat the operations to upload multiple screen savers. when the screen saver starts, all uploaded screen saver pictures will be displayed alternately.

If you do not need a picture, you can select the corresponding picture in the **Screensaver** field and then click **Delete** to delete it.

4. Click **Confirm**.

## Setting Wallpaper for VP59

VP59 uses the system's built-in wallpaper by default. You can upload the wallpapers to change the background picture displayed on the screen. If you connect an expanded display, you can also set its wallpaper.

### About this task

Either the smaller or the larger picture will be scaled proportionally to fit the screen. The wallpaper picture format

must meet the following:

Format	Resolution	Single File Size
*.jpg/*.png/*.bmp/*.jpeg	<=2.0 megapixels	<=5MB

### Procedure

1. On your web user interface, go to **Setting > General > Wallpaper**.

2. In the **Upload Wallpaper** field, select **Custom Wallpaper**, and then click [+ Upload Wallpaper](#) to upload a wallpaper.
  - i** **Tip:** Repeat the operations to upload multiple wallpapers. If you do not need a picture, you can hover over the current wallpaper and then click **Delete** to delete it.
3. Hover over the desired wallpaper and select **Set as system wallpaper** to customize the wallpaper for your VP59.
4. Hover over the desired wallpaper and select **Set as extend display wallpaper** to customize the wallpaper for your expanded display.
5. Click **Confirm**.

## Enabling/Disabling the Clock for the VP59

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After you enable the clock, the time and date are displayed at the center of the Home page. This feature is only available to VP59.

### Procedure

1. Tap **Setting > Basic**.
2. Enable/Disable **Clock**.

## Setting the Ring Tone for the VP59

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You can set the ring tone for VP59, and the ring tone is available to all accounts registered on VP59.

### Procedure

1. Tap **Setting > Basic > RingTone**.
2. Select the desired ring tone.
3. Save the change.

## Configuring the Display to Wake up the Sleeping Endpoint

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By default, the endpoint in sleep mode is not woken up automatically when it is connected to the display device. If you want to wake up the endpoint synchronously when you connect a display, you can enable the **Insert The Display To Wake Up** feature. This feature is not applicable to VP59.

### Procedure


1. On your web user interface, go to **Setting > General > General Information**.
2. Configure and save the following settings:

Parameter	Description	Configuration Method
<b>Insert The Display To Wake Up</b>	Configure whether the endpoint in the sleep mode can be woken up when the display is connected to it.  <b>Default:</b> Disabled.	Web user interface

## Configuring Automatic Sleep Time

Static images displayed for long periods may lead to monitor burn-in, therefore, you can configure the automatic sleep time for the device. After the device goes to the sleep mode, “no signal” is displayed on the monitor.

### Procedure


- Do one of the following:
  - On your web user interface, go to **Setting > General > General Information**.
  - For your VC880/VC800/VC500/VC200/PVT980/PVT950, on your remote control, go to **More > Setting > Call Feature**.
  - On your CTP20, tap  > **Setting > Basic > General**.
- Configure and save the following settings:

Parameter	Description	Configuration Method
<b>Automatic Sleep Time</b>	<p>Configure the inactive time (minutes) before the system enters sleep mode.</p> <p><b>Note:</b> the default value is 10 minutes.</p> <p>When you power the system on and set the setup wizard, the automatic sleep time feature is disabled automatically. To protect the monitor, you should complete the setup wizard immediately.</p>	<p>Web user interface</p> <p>Endpoint</p> <p>CTP20</p>

## Allowing Website Snapshot

You can choose whether to allow the web to show the same content that displayed on your monitor. If you want to prevent content on your monitor from being viewed remotely, you can disable this feature. This feature is not applicable to VP59.


### Procedure

- Do one of the following:
  - On your VCS, go to **More > Setting > Basic**.
  - On your CTP20, tap  > **Setting > Basic > General**.
- Enable **Website Snapshot**.

## Setting the Screen Saver Wait Time

The screen saver automatically starts when the system has been idle for a period of time you specified. You can configure the waiting time and after which the monitor starts the screen saver..

### Procedure

- Do one of the following:
  - On your web user interface, go to **Setting > General > General Information > Screen Saver Wait Time**.
  - On your VCS, go to **More > Setting > Basic > Screensaver**.  
On your VP59, tap **Setting > Basic > Screensaver**.
  - On your CTP20, tap  > **Setting > Basic > General > Screensaver**.
- Configure and save the following settings:

Parameter	Description	Configuration Method
<b>Screen Saver Wait Time</b>	Configure the inactive time (minutes) after which the system starts the screen saver.  <b>Default:</b> 1 minute.	Web user interface Endpoint CTP20

## Customizing the Local Interface for the System

You can configure the time after which the system starts screen saver, and customize the screen to show or hide some information.

- [Hide the IP Address on the Status Bar](#)
- [Hiding the Time and the Date on the Status Bar](#)
- [Hiding the User Interface on Idle Screen](#)
- [Showing or Hiding Icons in a Call](#)

### Hide the IP Address on the Status Bar

#### Procedure

- On your web user interface, go to **Setting > General > General Information**.
- Configure and save the following settings:

Parameter	Description	Configuration Method
<b>Hide IP Address</b>	Enable or disable the IP address displayed on the status bar. <ul style="list-style-type: none"> <li><b>On</b>—do not display the IP address.</li> <li><b>Off</b>—display the IP address.</li> </ul> <b>Default:</b> Off.	Web user interface

## Hiding the Time and the Date on the Status Bar

You can choose to hide the time and the date on the status bar of your monitor. This feature is not applicable to VP59.

### Procedure

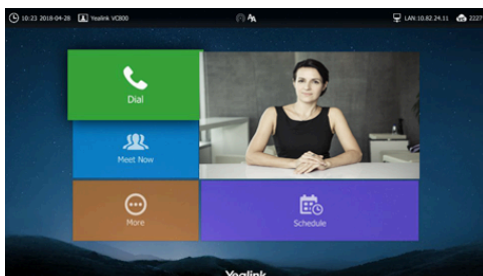
1. On your web user interface, go to **Setting > General > General Information**.
2. Configure and save the following settings:

Parameter	Description	Configuration Method
<b>Hide Heading Time</b>	<p>Enables the monitor to hide the time and the date on the status bar.</p> <ul style="list-style-type: none"> <li>• <b>On</b>—do not display the heading time.</li> <li>• <b>Off</b>—display the heading time.</li> </ul> <p><b>Default:</b> Off.</p>	Web user interface

## Hiding the User Interface on Idle Screen

You can choose to hide the user interface when the system is idle. The monitor only displays the local video or the PC content. This feature is not applicable to VP59.

### About this task



### Procedure

1. On your web user interface, go to **Setting > General > General Information**.
2. Configure and save the following settings:

Parameter	Description	Configuration Method
<b>Hide UI in Idle Screen</b>	<p>Enables the monitor to hide the user interface when the system is idle.</p> <ul style="list-style-type: none"> <li>• <b>On</b>—hide the user interface.</li> <li>• <b>Off</b>—display the user interface.</li> </ul> <p><b>Default:</b> Off.</p>	Web user interface






## Showing or Hiding Icons in a Call




During a call, the system will show some information and icons (such as the call time, the mute icon and recording icon) by default, so that you can know the call status from these information and icons. You can also hide these icons as needed to achieve the best video effects. This feature is not applicable to VP59.


### Procedure

1. On your web user interface, go to **Setting > General > Hide Icon in Call**.
2. Configure and save the following settings:

Parameter	Description	Configuration Method
<b>Title Bar</b>	<p>Enable or disable the system to hide the title bar during a call.</p> <ul style="list-style-type: none"> <li>• <b>Show</b>- the system displays the title bar.</li> <li>• <b>Hide with UI</b>- the system displays the title bar and then hide it after five seconds.</li> <li>• <b>Hide</b>- the system hides the title bar.</li> </ul> <p><b>Default:</b> Hide with UI.</p>	Web user interface
<b>Time Icon</b>	<p>Enable or disable the system to hide the call time during a call.</p> <ul style="list-style-type: none"> <li>• <b>Show</b>- the system displays the call time.</li> <li>• <b>Hide with UI</b>- the system displays the call time and then hide it after five seconds.</li> <li>• <b>Hide</b>- the system hides the title bar.</li> </ul> <p><b>Default:</b> Hide with UI.</p>	Web user interface
<b>Mute Icon</b>	<p>Enable or disable the system to hide the mute icon () during a call.</p> <ul style="list-style-type: none"> <li>• <b>Show</b>- the system displays the mute icon.</li> <li>• <b>Hide with UI</b>- the system displays the mute icon and then hide it after five seconds.</li> <li>• <b>Hide</b>- the system hides the mute icon.</li> </ul> <p><b>Default:</b> Hide with UI.</p>	Web user interface

Parameter	Description	Configuration Method
<b>Camera Icon</b>	<p>Enable or disable the system to hide the camera icon () during a call.</p> <ul style="list-style-type: none"> <li>• <b>Show</b>- the system displays the camera icon.</li> <li>• <b>Hide with UI</b>- the system displays the camera icon and then hide it after five seconds.</li> <li>• <b>Hide</b>- the system hides the camera icon.</li> </ul> <p><b>Default:</b> Hide with UI.</p>	Web user interface
<b>Recording Icon</b>	<p>Enable or disable the system to hide the recording icon () during a call.</p> <ul style="list-style-type: none"> <li>• <b>Show</b>- the system displays the recording icon.</li> <li>• <b>Hide with UI</b>- the system displays the recording icon and then hide it after five seconds.</li> <li>• <b>Hide</b>- the system hides the recording icon.</li> </ul> <p><b>Default:</b> Show.</p>	Web user interface
<b>Sitename Icon</b>	<p>Enable or disable the system to hide the site name during a call.</p> <ul style="list-style-type: none"> <li>• <b>Show</b>- the system displays the site name.</li> <li>• <b>Hide with UI</b>- the system displays the site name and then hide it after 5 seconds.</li> <li>• <b>Hide</b>- the system hides the site name.</li> </ul> <p><b>Default:</b> Hide with UI.</p>	Web user interface

Parameter	Description	Configuration Method
<b>Hold Icon</b>	<p>Enable or disable the system to hide the hold icon () during a call.</p> <ul style="list-style-type: none"> <li>• <b>Show</b>- the system displays the hold icon.</li> <li>• <b>Hide with UI</b>- the system displays the hold icon and then hide it after five seconds.</li> <li>• <b>Hide</b>- the system hides the recording icon.</li> </ul> <p><b>Default:</b> Hide with UI.</p>	Web user interface
<b>Encrypt Icon</b>	<p>Enable or disable the system to hide the encryption icon () during a call.</p> <ul style="list-style-type: none"> <li>• <b>Show</b>- the system displays the encryption icon.</li> <li>• <b>Hide with UI</b>- the system displays the encryption icon and then hide it after five seconds.</li> <li>• <b>Hide</b>- the system hides the encryption icon.</li> </ul> <p><b>Default:</b> Hide with UI.</p>	Web user interface
<b>Output Mute Icon</b>	<p>Enable or disable the system to hide the output mute icon ( indicates that the output volume is set to 0: ) during a call. ) .</p> <ul style="list-style-type: none"> <li>• <b>Show</b>- the system displays the output mute icon.</li> <li>• <b>Hide with UI</b>- the system displays the output mute icon and then hide it after five seconds.</li> <li>• <b>Hide</b>- the system hides the output mute icon.</li> </ul> <p><b>Default:</b> Hide with UI.</p>	Web user interface

Parameter	Description	Configuration Method
<b>SecondScreen Icon</b>	<p>Enable or disable the system to hide the secondscreen icon () during a call.</p> <ul style="list-style-type: none"> <li>• <b>Show</b>- the system displays the secondscreen icon.</li> <li>• <b>Hide with UI</b>- the system displays the secondscreen icon and then hide it after five seconds.</li> <li>• <b>Hide</b>- the system hides the secondscreen icon.</li> </ul> <p><b>Default:</b> Hide with UI. It is not applicable to VC200.</p>	Web user interface

## Muting the Microphone

You can mute the local microphone during a call, so that other parties cannot hear you.

### Procedure


Do one of the following during a call:

- On your web user interface, go to **Home > Mute**.
- On your VCS:

For VC880/VC800/VC500/VC200/PVT980/PVT950, on your remote control, press .

On your VP59, press the MUTE key on the phone.

- On your CTP20, tap the Mute key.
- On your CP960, tap one of the Mute keys.
- On your CP960 touch screen, tap the Mute key.
- On your CPE90, tap the Mute key.
- On your CPW90-BT, tap the Mute key.

If video conferencing system is muted, the icon  will appear on the local video.

## Configuring Microphone Mute Mode

By default, if you enable the mute mode on a single microphone (CPE90/CPW90/CPW90-BT/VCM34), other microphones will be muted synchronously. To avoid picking up unwanted sounds from other microphones, you can choose to mute a single microphone only, and other microphones keep unmuted. This feature is not applicable to VP59.

### Procedure

1. On your web user interface, go to **Setting > Video & Audio**.

2. Configure and save the following settings:

Parameter	Description	Configuration Method
<b>Microphone Mute Mode</b>	Configure the microphone mute mode. <ul style="list-style-type: none"> <li>• <b>Synchronized</b>- if you mute/unmute a microphone, other microphones will be muted/unmuted simultaneously.</li> <li>• <b>Separated</b>- you can only mute/unmute one microphones, others are unaffected.</li> </ul> <b>Default:</b> Synchronized.	Web user interface







**Note:**

If you use the remote control or CP960 conference phone to mute/unmute a microphone, all microphone will be muted/unmuted simultaneously.

## Configuring the Keyboard Input Method

You can use the full keyboard on the screen to enter or to edit the data. You can enter characters using the enabled input method. On-screen keyboard on the monitor supports English and Russian input methods. This feature is not applicable to VP59.

### Procedure

1. On your web user interface, go to **Setting > General > General Information > Keyboard IME**.
2. Select the desired list from the **Disabled** column and click .  
The selected input method appears in the **Enabled** column.
3. Repeat step 2 to add more input methods to the **Enabled** column.
4. To remove a input method from the Enabled column, select the desired input method and then click .
5. To adjust the display order of the enabled input methods, select the desired input method, and click  or .

The input method shown at the top has the highest priority.

## Configuring USB Storage

If you have high requirement for data security, you can disable the USB storage. After disabling the feature, you cannot use the USB flash drive to store recorded videos, screenshots or captured packets.

### Procedure

1. On your web user interface, go to **Setting > Video & Audio > USB Config > USB Enable**.

2. Configure and save the following settings:

Parameter	Description	Configuration Method
<b>USB Enable</b>	<p>Enable or disable the USB feature.</p> <p><b>Note:</b> the default value is On.</p> <p>If you change this parameter, the system will reboot to make the change take effect.</p>	Web user interface

## Configuring Local Storage

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VC200/VP59 allows you to store the images and recorded videos to local storage except for USB storage.

### About this task



**Note:** The priority of local storage is lower than USB storage. When users disable USB storage, the captured screenshot and recorded files are saved on local storage automatically.

### Procedure

1. On your web user interface, go to **Setting > Video & Audio > USB Config > Local Storage Enable**.
2. Configure and save the following settings:

Parameter	Description	Configuration Method
<b>Local Storage Enable</b>	<p>Enable or disable the local storage feature.</p> <p><b>Note:</b> the default value is On.</p> <p>If you change this parameter, the system will reboot to make the change take effect.</p>	Web user interface

## Configuring the Screenshot

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You can capture screenshot. This feature is not applicable to VP59.

### Before you begin

If you want to save the screenshot to USB flash driver, make sure a USB flash drive is connected, and the USB feature is enabled.

If you want to save the screenshot to local storage (only applicable to VC200), make sure the local storage is enabled.

### Procedure

1. On your web user interface, go to **Setting > Video & Audio > USB Config**.

2. Configure and save the following settings:

Parameter	Description	Configuration Method
<b>Screenshot</b>	Enable or disable to capture the screenshot. <ul style="list-style-type: none"> <li>• <b>On</b></li> <li>• <b>Off</b></li> </ul> <b>Default:</b> On.	Web user interface

#### Related tasks

[Configuring USB Storage](#)

[Configuring Local Storage](#)

## Configuring to Automatically Upload Screenshots to the YMS Server

The endpoint can automatically upload the screenshots saved on the USB flash drive or local storage (only supported by the VC200) to the YMS server when taking screenshots. It is convenient for you to view and manage the screenshots on the YMS server directly and remotely.

#### Before you begin

Make sure the the Screenshot feature is enabled.

If you want to save the screenshot to USB flash driver, make sure a USB flash drive is connected, and the USB feature is enabled.

If you want to save the screenshot to local storage (only applicable to VC200), make sure the local storage is enabled.

#### About this task

This feature is not applicable to VP59.

#### Procedure

1. On your web user interface, go to **Setting > Video & Audio > USB Config**.
2. Configure and save the following settings:

Parameter	Description	Configuration Method
<b>Auto Upload Screenshot</b>	Enable or disable to capture the screenshot by using the remote control. <ul style="list-style-type: none"> <li>• <b>On</b></li> <li>• <b>Off</b></li> </ul> <b>Default:</b> Off.	Web user interface

## Configuring Video Recording

You can record the video by default, and you can configure the parameters of video recording.

### Before you begin

If you want to record the video to USB flash drive, make sure the USB flash drive is available.

If you want to record the video to the local storage (only applicable to VC200/VP59), make sure you enable the local storage.

### Procedure

1. On your web user interface, go to **Setting > Video & Audio > USB Config**.
2. Configure and save the following settings:

Parameter	Description	Configuration Method
<b>Recording</b>	Enable or disable the video recording feature on the system. <b>Default:</b> On.	Web user interface
<b>Auto Recording</b>	Enable or disable the system to start recording automatically once a call is established. <ul style="list-style-type: none"> <li>• <b>On-</b> the system starts recording automatically once a call is established.</li> <li>• <b>Off-</b> the system does not start recording automatically once a call is established.</li> </ul> <b>Note:</b> the default value is Off. Only the Recording feature is enabled can this feature be available.	Web user interface
<b>Stop Recording When Call Established</b>	Enable or disable the system to stop recording automatically once a call is established. <ul style="list-style-type: none"> <li>• <b>On-</b> the system stops recording automatically once a call is established.</li> <li>• <b>Off-</b> the system does not stop recording automatically once a call is established.</li> </ul> <b>Default:</b> Off. It is not applicable to VP59.	Web user interface
<b>Stop Recording When Call Ended</b>	Enable or disable the system to stop recording automatically once a call is ended. <ul style="list-style-type: none"> <li>• <b>On-</b> the system stops recording automatically once a call is ended.</li> <li>• <b>Off-</b> the system does not stop recording automatically once a call is ended.</li> </ul> <b>Default:</b> On. It is not applicable to VP59.	Web user interface



Parameter	Description	Configuration Method
<b>Recording Notification</b>	<p>Enable or disable the system to show recording icon and prompt.</p> <ul style="list-style-type: none"> <li>• <b>On</b>- the recording icon and the duration are displayed on the system screen.</li> <li>• <b>Off</b>- the recording icon and the duration are not displayed on the system screen.</li> </ul> <p><b>Default:</b> On.</p>	Web user interface
<b>WPP20 Recording Confirm</b>	<p>Configure whether you should confirm the action on the system manually when you use WPP20 to record videos.</p> <p><b>Default:</b> On. It is only applicable to VC200/VC500/VC800/VC880/VP59.</p>	Web user interface
<b>Dual Screen Recording Setting</b>	<p>Select the desired screen. You can record the video for the selected screen when you are using dual screen.</p> <ul style="list-style-type: none"> <li>• Screen 1+2: record video for dual screen</li> <li>• Screen 1 Only</li> <li>• Screen 2 Only</li> </ul> <p><b>Default:</b> Screen 1+2.</p> <p>It is not applicable VC200/VP59.</p>	Web user interface

**Related tasks**

- [Configuring USB Storage](#)
- [Configuring Local Storage](#)

## Basic Settings for the CP960 Conference Phone

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The screen saver automatically starts when the system or CP960 conference phone has been idle for the preset waiting time. You can set screen saver for the monitor and CP960 conference phone respectively.

- [Adjusting Backlight of the CP960 Conference Phone](#)
- [Setting the Screen Saver for CP960 Conference Phone](#)

### Adjusting Backlight of the CP960 Conference Phone

You can change the backlight brightness of the CP960 conference phone. The backlight time means the delay time to turn off the backlight when the phone has been idle for a specified time.

**About this task**

You can configure the backlight time as one of the following types:

- **Always On:** the backlight is turned on permanently.
- **Specific time:** the backlight is turned off when the phone has been idle for a specified time.

**Procedure**

Do one of the following:

- On your web user interface, go to **Setting > General > General Information > Backlight Time**.

- On your CP960 conference phone, tap **Setting > Display > Backlight**.
- On your CP960 conference phone, swipe down from the top of the screen to enter the control center.  
Drag the backlight slider.

## Setting the Screen Saver for CP960 Conference Phone

The screen saver automatically starts when CP960 conference phone has been idle for the preset waiting time. You can set screen saver for the CP960 conference phone. The CP960 conference phone supports four types of screen savers: Clock, Colors, Photo Frame and Photo Table. You can choose anyone you like, and you can configure the waiting time before the CP960 conference phone starts the screen saver.

### Procedure

1. On your CP960 conference phone, go to **Setting > Display > Screen Saver**.
2. select the corresponding screen saver type.
3. Configure and save the following settings:

Parameter	Description	Configuration Method
<b>Wait Time</b>	Configure the inactive time (minutes) before the CP960 conference phone starts screen saver.  <b>Default:</b> 10 minutes.	CP960 Conference Phone

## Configuring \* Key for Default Input

When you tap or press the \* key in the T9 keyboard, the default character is "\*". You can configure the default character that is displayed first when you tap or press the \* key.

### About this task

When using T9 keyboard to quickly tap or press the \* key, you can still switch between "\*", "@", and ".".

### Procedure

1. On your web user interface, go to **Setting > General > General Information**.
2. Configure and save the following settings:

Parameter	Description	Configuration Method
<b>* Key Default Input</b>	Customize the character that is displayed first when you tap or press the * key. <ul style="list-style-type: none"> <li>• *</li> <li>• .</li> <li>• @</li> </ul> <b>Default:</b> *	Web user interface

## Configuring the Audio Settings

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- [Configuring the Audio Output](#)
- [Audio Input](#)
- [Media Audio Input](#)
- [EQ Self Adaption](#)
- [Configuring the Noise Suppression](#)
- [Tones](#)
- [Codecs](#)
- [DTMF](#)

### Configuring the Audio Output

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- [Audio Output Type](#)
- [Specifying an Available Audio Output](#)

#### Audio Output Type

Model	Audio Output
VC880/VC800/VC200/PVT980	<ul style="list-style-type: none"> <li>• <b>Auto</b>- selects the audio output with the highest priority. If the audio output with the highest priority is removed, the system will select the device with the second highest priority. The priority is VCS Phone&gt;HDMI&gt;Line Output.</li> <li>• <b>VCS Phone</b></li> <li>• <b>HDMI</b></li> <li>• <b>Line Output</b></li> </ul>
VC500/PVT950	<ul style="list-style-type: none"> <li>• <b>Auto</b>- selects the audio output with the highest priority. The priority is VCS Phone&gt;HDMI&gt;USB to Line output.</li> <li>• <b>VCS Phone</b></li> <li>• <b>HDMI</b></li> <li>• <b>USB to Line output</b></li> </ul>
VP59	<ul style="list-style-type: none"> <li>• <b>Auto</b>- selects the audio output with the highest priority. The priority is VP59 Phone built-in speaker&gt;HDMI&gt;USB to Line output.</li> <li>• <b>Built-in Speaker</b></li> <li>• <b>HDMI</b></li> <li>• <b>USB to Line output</b></li> </ul>

## Specifying an Available Audio Output

You can specify an available audio output if you do not want to use the default audio output device.

### Procedure

1. Do one of the following:

- On your web user interface, go to **Setting > Video & Audio > Audio Settings**.

- On your VCS:

On your VC880/VC800/VC500/PVT980/PVT950, go to **More > Setting > Video & Audio > Audio Settings**.

On your VC200, go to **More > Setting > Video & Audio**.

On your VP59, tap **Setting > Audio**.

- On your CTP20, tap  > **Setting > Basic > Audio**.

2. Configure and save the following settings:

Parameter	Description	Configuration Method
<b>Audio Output/Extended Audio Output</b>	<p>Specify the audio output for the system.</p> <p>The supported types are as follows:</p> <ul style="list-style-type: none"> <li>• <b>Auto</b>- the audio output device with the highest priority.</li> <li>• <b>VCS Phone</b> - the CP960 conference phone. (it is not applicable to VP59)</li> <li>• <b>HDMI</b> - the built-in speakerphone of the monitor. If you connect two monitors to your system, only the HDMI 1 port is available for audio output.</li> <li>• <b>Line Output</b> –the speakerphone connected to VC880/VC800/VC200/PVT980 codec.</li> <li>• <b>USB to Line output</b> - the audio output device connected to the USB port on the VC500/PVT950 codec via a USB to Line output adapter.</li> </ul> <p><b>Note:</b> the default value is Auto. If VCS Phone is set as the audio output device manually or automatically, the audio input device must be VCS Phone.</p>	<p>Web user interface</p> <p>Endpoint</p> <p>CTP20</p>



### Note:

The system will start EQ self-adaption to optimize the acoustic effect automatically when the audio output switches to **HDMI** or **Line Output/USB to Line out**.

**Related information**[EQ Self Adaption](#)**Audio Input**

- [Audio Input Type](#)
- [Specifying an Available Audio Input](#)

**Audio Input Type**

Model	Audio Input
VC880/VC800/PVT980	<ul style="list-style-type: none"> <li>• <b>Auto</b>—the system automatically selects the audio input with the highest priority. The priority is Microphone Array&gt;VCS Phone&gt;Bluetooth Microphone&gt;Line Input.</li> <li>• <b>Microphone Array</b></li> <li>• <b>VCS Phone</b></li> <li>• <b>Bluetooth Microphone</b></li> <li>• <b>Line Input</b></li> <li>• <b>USB to Line input</b></li> </ul>
VC200	<ul style="list-style-type: none"> <li>• <b>Auto</b>—the system automatically selects the audio input with the highest priority. The priority is Microphone Array&gt;VCS Phone&gt;Bluetooth Microphone&gt;Line Input.</li> <li>• <b>Microphone Array</b></li> <li>• <b>VCS Phone</b></li> <li>• <b>Built-in Microphone</b></li> <li>• <b>Bluetooth Microphone</b></li> <li>• <b>USB to Line input</b></li> </ul>
VC500/PVT950	<ul style="list-style-type: none"> <li>• <b>Auto</b>—the system automatically selects the audio input with the highest priority. The priority is Microphone Array&gt;VCS Phone&gt;Bluetooth Microphone&gt;Line Input.</li> <li>• <b>Microphone Array</b></li> <li>• <b>VCS Phone</b></li> <li>• <b>Bluetooth Microphone</b></li> <li>• <b>USB to Line input</b></li> </ul>
VP59	<ul style="list-style-type: none"> <li>• <b>Auto</b>—the phone automatically selects the audio input with the highest priority. The priority is Built-in Microphone&gt;Bluetooth Microphone&gt;USB to Line input.</li> <li>• <b>Built-in Microphone</b></li> <li>• <b>USB to Line input</b></li> </ul>

## Specifying an Available Audio Input

### Procedure

1. Do one of the following:

- On your web user interface, go to **Setting > Video & Audio > Audio Settings**.
- On your VCS:

On your VC880/VC800/VC500/PVT980/PVT950, go to **More > Setting > Video & Audio > Audio Settings**.

On your VC200, go to **More > Setting > Video & Audio**.

On your VP59, tap **Setting > Audio**.

- On your CTP20, tap  > **Setting > Basic > Audio**.

2. Configure and save the following settings:

Parameter	Description	Configuration Method
<b>Audio Input/Extended Audio Input</b>	<p>Specify the audio input for the system.</p> <p>The supported types are as follows:</p> <ul style="list-style-type: none"> <li>• <b>Auto</b> - the audio output with the highest priority.</li> <li>• <b>Microphone Array</b></li> <li>• <b>VCS Phone</b> - the CP960 conference phone. (it is not applicable to VP59)</li> <li>• <b>Built-in Microphone</b> - the VC200 built-in microphone.</li> <li>• <b>Bluetooth Microphone</b> - the CPW90-BT Bluetooth wireless microphones. (it is not applicable to VP59)</li> <li>• <b>Line Input</b>- the audio input device connected to the Line In port on the VC800 codec or to the RAC In port on the VC880/PVT980 codec.</li> <li>• <b>USB to Line input</b> - the audio input device connected to the USB port on the VC200/VC500/PVT950/VP59 codec by using a USB to Line input adapter.</li> </ul> <p><b>Default:</b> Auto.</p>	<p>Web user interface</p> <p>Endpoint</p> <p>CTP20</p>

Parameter	Description	Configuration Method
<b>Line AEC</b>	<p>Enable or disable echo cancellation for line input device.</p> <ul style="list-style-type: none"> <li>• <b>On-</b> eliminate the echo to the line input devices. If you select an acoustic device (for example: a microphone) to be the line input, you can enable this configuration.</li> <li>• <b>Off-</b> do not eliminate the echo to the line input devices. If you select a non-acoustic device (for example: a mobile phone) to be the line input, you can disable this configuration.</li> </ul> <p><b>Note:</b> the default value is Off.</p> <p>This configuration is available only when Audio Input is set to Line Input/USB to Line input. If you change this parameter, the system will reboot to make the change take effect.</p>	Web user interface
<b>Audio Line In</b>	<p>Configure the volume of line input device.</p> <p><b>Note:</b></p> <ul style="list-style-type: none"> <li>• <b>Valid value:</b> Integer from -50 to 50dB.</li> <li>• The default value 0 means to use the default sending volume. The value you set is based on the default value.</li> <li>• This configuration is available only when Audio Input is set to Line Input/USB to Line input. If you change this parameter, the system will reboot to make the change take effect.</li> <li>• It is not applicable to VC200.</li> </ul>	Web user interface

**Note:**

If VCS Phone is set as the audio output device manually or automatically, the audio input device must be VCS Phone or VCS Phone+Wireless Microphone.

**Related information**

[Audio Input Type](#)

## Media Audio Input

When the VCS device is connected to both a microphone and other media audio inputs (such as connected to a computer to play audio), you need to configure the type of media audio input, so that the mix input can be realized. The sound from the media audio input device is mixed to the local output by default and can be mixed to the remote output. This feature is not applicable to VP59.



**Note:** If the microphone is connected to the device via Line Input or USB to Line Input, you should not select the interface to which the microphone is connected when using the media audio input, otherwise there may be a strident sound.

- [Configuring Media Audio Input](#)

## Configuring Media Audio Input

### Procedure

1. Do one of the following:

- On your web user interface, go to **Setting > Video & Audio > Audio Settings**.
- On your VCS:

On your VC880/VC800/VC500/PVT980/PVT950, go to **More > Setting > Video & Audio > Audio Settings**.

On your VC200, go to **More > Setting > Video & Audio**.

- On your CTP20, tap  > **Setting > Basic > Audio**.

2. Configure and save the following settings:

Parameter	Description	Configuration Method
<b>Media Audio Input</b>	<p>Specify the media audio input connected to the device.</p> <p>The supported types are as follows:</p> <ul style="list-style-type: none"> <li>• <b>Off</b>- not use any media audio input.</li> <li>• <b>Line Input (No access)</b>- the media audio input device connected to RCA In port on VC880 or to the Line In port on VC800.</li> <li>• <b>USB to Line input (No access)</b>- the media audio input device connected to the USB port on VC500/VC200 via a USB to line input adapter.</li> </ul> <p><b>Default:</b> Disabled.</p>	<p>Web user interface</p> <p>Endpoint</p> <p>CTP20</p>



## EQ Self Adaption

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The EQ self adaption allows the device to optimize the acoustic effect. The EQ self adaption is enabled by default. System supports manual EQ self adaption adjustment.

You can manually trigger the system to enter the EQ self adaption adjustment in the idle state.

### For VC880/VC800/VC500/PVT980/PVT950:

- When the audio output switches to **HDMI** or **Line Output/USB Line output** and you connect an audio input device, click **Start EQ Self Adaption** to optimize the acoustic effect.

### For VP59/VC200:

- When the audio output switches to **HDMI** or **Line Output/USB Line output**, click **Start EQ Self Adaption** to optimize the acoustic effect.
- After the factory reset, connect the display device for the first time.
- [Configuring the EQ Self-adaption](#)

## Configuring the EQ Self-adaption

### Procedure

1. On your web user interface, go to **Setting > Video & Audio > Audio Settings**.
2. Configure and save the following settings:

Parameter	Description	Configuration Method
<b>EQ Self-Adaption</b>	Enable or disable the EQ self-adaption feature on the system. <b>Default:</b> On.	Web user interface
<b>Start EQ Self Adaption</b>	Starts the EQ self-adaption feature. <b>Note:</b> This configuration appears only when the system satisfies the following conditions: <ul style="list-style-type: none"> <li>• Enable the <b>EQ Self Adaption</b> feature.</li> <li>• The VCS phone is not selected as the audio output device.</li> <li>• Connect an audio input to the device (it is only applicable to VC880/VC800/VC500/PVT980/PVT950)</li> <li>• The audio output is <b>HDMI</b> or <b>Line Output/USB Line out</b>.</li> </ul>	Web user interface

## Configuring the Noise Suppression

---

The noises in the room may be picked-up, including paper rustling, coffee mugs, coughing, typing and silverware striking plates. These noises, when transmitted to remote participants, can be very distracting.

You can enable the Transient Noise Suppressor (TNS) to suppress these noises. You can also enable the Noise Barrier feature to block these noises when there is no speech in a call.

### Procedure

1. On your web user interface, go to **Setting > Video & Audio > Noise Suppression**.
2. Configure and save the following settings:

Parameter	Description	Configuration Method
<b>Temporal Noise Shaping(TNS)</b>	<p>Enables or disabled the Transient Noise Suppressor (TNS).</p> <ul style="list-style-type: none"> <li>• <b>On</b>—it can reduce the noise volume temporarily and block the noise in the voice.</li> <li>• <b>Disabled</b></li> </ul> <p><b>Default:</b> On.</p>	Web user interface
<b>Noise Barrier</b>	<p>Enables or disabled the noise barrier feature.</p> <ul style="list-style-type: none"> <li>• <b>On</b>—it can block the noise when there is no speech in a call..</li> <li>• <b>Off</b></li> </ul> <p><b>Default:</b> Disabled.</p>	Web user interface

## Tones

When receiving a message, the system will play a warning tone. You can customize tones or select specialized tone sets (vary from country to country) to indicate different statuses of the system.

- [Supported Tones](#)
- [Custom Tones Formats](#)
- [Customizing Tones](#)

### Supported Tones

The system supports the tone sets in the following countries. The tone set is a predefined by each country according to different device status. The tone sets of different countries varies.

Available tone sets for the system are described as below:

Australia	Austria	Brazil	Belgium
Chile	China	Czech	Denmark
Finland	France	Germany	Great Britain
Greece	Hungary	Lithuania	India
Italy	Japan	Mexico	New Zealand
Netherlands	Norway	Portugal	Spain
Switzerland	Sweden	Russia	United States

## Custom Tones Formats

You can customize different tones for the system except for the default tone.

**The custom tones formats are as below:**

E1,E2,E3,E4,E5,E6,E7,E8 (you can configure up to 8 different tones which are separated by commas)

En=[!][F1][+F2][+F3][+F4] /Duration

**Parameter explanation:**

- Freq: the frequency of the tone (ranges from 200Hz to 7000 Hz). If it is set to 0Hz, it means the tone is not played. A tone consists of at most four different frequencies.
- Duration: the duration (in milliseconds) of the dial tone, ranges from 0 to 30000ms.
- An exclamation mark “!” before tones : it means that the tone only rings once.

(for example, !250/200, 0/1000, 200+300/500, 500+1200/800, 600+700+800+1000/2000) means playing tones once.

## Customizing Tones

### Procedure

1. On your web user interface, go to **Setting > Tones**.
2. Configure and save the following settings:

Parameter	Description	Configuration Method
<b>Select Country</b>	Select Custom.	Web user interface
<b>Ring Back</b>	Customize the ring-back tone for the system <b>Note:</b> the default value is blank. When it is blank, the American tones are enabled.	Web user interface
<b>Busy</b>	Customize the busy tone for the system. <b>Note:</b> the default value is blank. When it is blank, the American tones are enabled.	Web user interface
<b>Call Waiting</b>	Customize the call waiting tone for the system. <b>Note:</b> the default value is blank. When it is blank, the American tones are enabled.	Web user interface
<b>Auto Answer</b>	Customize the auto answer tone for the system. <b>Note:</b> the default value is blank. When it is blank, the American tones are enabled.	Web user interface

## Codecs

CODEC is an abbreviation of COmpress-DECompress, and is capable of coding or decoding a digital data stream or signal by implementing an algorithm. The object of the algorithm is to represent the high-fidelity audio/video signal with a minimum number of bits while retaining quality. This can effectively reduce the frame size and the bandwidth required for audio/video transmission. The administrator can configure the codec and its priority for the devices.

- [Audio Codec](#)
- [Video Codecs](#)

### Audio Codec

The audio codec that the system uses to establish a call should be supported by the server. When placing a call, the system will offer the enabled audio codec list to the server and then use the audio codec negotiated with the called party according to the priority.

- [Supported Audio Codecs](#)
- [Configuring Audio Codecs](#)

#### Supported Audio Codecs

The following table summarizes the supported audio codecs on the devices:

Audio Codec	Algorithm	Bit Rate	Sample Rate	Reference
Opus	opus	8-12 Kbps	8 Ksps	RFC 6716
		16-20 Kbps	12 Ksps	
		28-40 Kbps	16 Ksps	
		48-64 Kbps	24 Ksps	
		64-128 Kbps	48 Ksps	
ARES	ARES	8-64kpbs	48 Ksps	No
G.722.1C	G.722.1	48 Kbps	32 Ksps	RFC 5577
G.722.1C		32 Kbps	32 Ksps	RFC 5577
G.722.1C		24 Kbps	32 Ksps	RFC 5577
G.722.1		24 Kbps	16 or 32 Ksps	RFC 5577
G722	G.722	64 Kbps	16 Ksps	RFC 3551
PCMU	G.711 u-law	64 Kbps	8 Ksps	RFC 3551
PCMA	G.711 a-law	64 Kbps	8 Ksps	RFC 3551

The Opus codec supports the following audio bandwidths:

Abbreviation	Audio Bandwidth	Sample Rate (Effective)
NB (narrowband)	4 kHz	8 kHz
MB (medium-band)	6 kHz	12 kHz
WB (wideband)	8 kHz	16 kHz
SWB (super-wideband)	12 kHz	24 kHz

Abbreviation	Audio Bandwidth	Sample Rate (Effective)
FB (fullband)	20 kHz	48 kHz

## Configuring Audio Codecs

### Procedure

1. On your web user interface, go to **Account > Codec > Audio Codec**.
2. Configure and save the following settings:

Parameter	Description	Configuration Method
<b>Enabled</b>	Configure the audio codecs to be used. <b>Note:</b> You can move the disabled codec to this field.	Web user interface
<b>Disabled</b>	Configure the audio codecs that are not used. <b>Note:</b> you can move the enabled codec to this field.	Web user interface
<b>Opus Sample Rate</b>	Configure the sample rate of the opus audio codec. <ul style="list-style-type: none"> <li>• Opus-FB(48KHz)</li> <li>• Opus-SWB(24KHz)</li> <li>• Opus-WB(16KHz)</li> <li>• Opus-MB(12KHz)</li> <li>• Opus-NB(8KHz)</li> </ul> <b>Default:</b> Opus-FB(48KHz).	Web user interface
<b>Special audio codec byte sequence</b>	Enable or disable the special audio codec byte sequence. <ul style="list-style-type: none"> <li>• <b>Off</b>—keep the current codec byte sequence.</li> <li>• <b>On</b>—different devices have different definition about audio codec byte sequence, which may lead to the audio incompatibility problems between Yealink and certain devices. You can enable this feature to solve these incompatibility problems.</li> </ul> <b>Default:</b> Disabled.	Web user interface

## Video Codecs

The video codecs that the system uses to establish a call should be supported by the server. When placing a call, the system will offer the enabled video codec list to the server and then use the video codec negotiated with the called party according to the priority.

- [Supported Video Codecs](#)
- [Configuring Video Codecs](#)
- [Selecting an H.265 Mode](#)

### Supported Video Codecs

The following table summarizes the supported video codecs on the system:

Video Codecs	Static NAT/Type	Bit Rate	Frame Rate	Frame Size
H.264 HP	H264/90000	90—2048 kbps	5—30 fps	Tx: 360P, 540P, 720P, 1080P
H.264	H264/90000			Rx: Conventional Size Below 1080P
H.263	H263/90000			Tx: CIF, 4CIF
H.263+ (it is not applicable to VP59)	H263/90000			Rx: QCIF, CIF, 4CIF
H.265 (it is not applicable to VP59)	H265/90000			Tx: CIF
				Rx: CIF
				Tx: 360P, 540P, 720P, 1080P
				Rx: Conventional Size Below 1080P



**Note:** H.265 video codec is only applicable to a one-way video call, and the system cannot be connected to a third-party camera. The system will negotiate with other parties to use the H264 High profile video codec automatically when more people join the call.



**Tip:** H.263 video codec consumes twice as much bandwidth as H.264 High profile video codec and four times as much as H.265 video codec.

### Configuring Video Codecs

#### Procedure

1. On your web user interface, go to **Account > Codec > Video Codec**.
2. Configure and save the following settings:

Parameter	Description	Configuration Method
<b>Enabled</b>	Configure the enabled video codecs for the system to use. <b>Note:</b> You can move the disabled codec to this field.	Web user interface
<b>Disabled</b>	Configure the disabled video codecs. <b>Note:</b> you can move the enabled codec to this field.	Web user interface
<b>SVC-T</b> (it is not applicable to VP59)	This feature is only applicable to H.264/H.264 video codecs. <b>Default:</b> Disabled.	Web user interface

### Selecting an H.265 Mode

You can select VBR or CBR for the H.265 video codec according to your network bandwidth. It is only applicable to VC200 endpoint.

#### Procedure

1. On your web user interface, go to **Account > Codec > Video Codec**.
2. Configure and save the following settings:

Parameter	Description	Configuration Method
<b>H.265 Mode</b>	<p>H.265 video codec.</p> <ul style="list-style-type: none"> <li>• <b>VBR</b>- the output data rate of the H.265 codec varies per time segment. You can save nearly half of the bandwidth.</li> <li>• <b>CBR</b>- the output data rate of the H.265 codec is constant. If the latency issue appears in the call or video image is abnormal, it may result from packet loss, you can select this value to try to fix this issue.</li> </ul> <p><b>Default:</b> VBR.</p>	Web user interface

## DTMF

DTMF is the signal sent from the system to the network, which is generated when pressing the keypad during a call. Each key pressed generates one sinusoidal tone of two frequencies. One is generated from a high frequency group and the other from a low frequency group.

- [DTMF Keypad](#)
- [Transmission Ways of DTMF](#)
- [Setting DTMF Transmission Method for SIP Protocol](#)
- [Configuring DTMF for H.323 Protocol](#)

### DTMF Keypad

The DTMF keypad is laid out in a 4x4 matrix, with each row representing a low frequency, and each column representing a high frequency. Pressing a digit key (such as '1') will generate a sinusoidal tone for each of two frequencies (697 and 1209 hertz (Hz)). The switch can decode the frequency group and locate the corresponding key.

DTMF Keypad Frequencies:

	1209 Hz	1336 Hz	1477 Hz	1633 Hz
697 Hz	1	2	3	A
770 Hz	4	5	6	B
852 Hz	7	8	9	C
941 Hz	*	0	#	D

## Transmission Ways of DTMF

Three ways to transmit DTMF tones are as below: RFC2833, INBAND, SIP INFO.

### RFC 2833

In-band transmission method. DTMF tones are transmitted by RTP, and the RFC 2833 packets are marked by TelephoneEvent (RTP PayloadType). One DTMF tone consists of several RTP packets with the same timestamps, which can be used to identify the same key. If the End bit of a RTP packet is 1, the packet is the last DTMF tone. The default telephoneEvent is 101, and you can change it.

### INBAND

In-band transmission method. DTMF tones are transmitted together with the voice band. By analyzing the high frequency and the low frequency of the RTP packets, the device can identify the corresponding key.

### SIP INFO


Out-band transmission method. DTMF tones are transmitted by SIP signaling path. The SIP INFO message can transmit DTMF tones in three ways: DTMF, DTMF-Relay and Telephone-Event.

## Setting DTMF Transmission Method for SIP Protocol

You can set the DTMF transmission method for the SIP protocol when using a SIP account, SIP IP call, or logging in to Zoom, Pexip, BlueJeans, EasyMeet, or a custom third-party platform.

### Procedure

1. Do one of the following:

- On your web user interface, go to **Account > SIP Account/SIP IP Call**.
- On your web user interface, go to **Account > VC Platform > Video Conference Platform > Platform Type > Zoom/Pexip/BlueJeans/EasyMeet/Custom**.
- On your VCS, go to **More > Setting > Advanced > SIP IP Call Out**.  
On your VP59, tap **Setting > Advanced > SIP IP Call**.
- On your CTP20, tap  > **Setting > Advanced > Account > SIP IP Call**.

2. Configure and save the following settings:

Parameter	Description	Configuration Method
<b>DTMF Type</b>	Configure the DTMF type. <ul style="list-style-type: none"> <li>• <b>INBAND</b>—DTMF digits are transmitted in the voice band, together with the general RTP voice packet.</li> <li>• <b>RFC2833</b>—DTMF digits are transmitted by RTP packet which is compliant to RFC2833.</li> <li>• <b>SIP INFO</b>—DTMF digits are transmitted by SIP INFO.</li> <li>• <b>RFC2833+ SIP INFO</b>—DTMF digits are transmitted by RFC 2833 and the SIP INFO.</li> </ul> <b>Default:</b> RFC2833.	Web user interface Endpoint CTP20



Parameter	Description	Configuration Method
<b>DTMF Info Type</b>	Configure the DTMF info type when DTMF type is set to SIP INFO or RFC2833+SIP INFO. <ul style="list-style-type: none"> <li>• DTMF-Relay</li> <li>• DTMF</li> <li>• Telephone-Event</li> </ul> <b>Default:</b> DTMF-Relay.	Web user interface Endpoint CTP20
<b>DTMF Payload Type (96~127)</b>	Configure the value of DTMF payload. <b>Default:</b> 101.	Web user interface

## Configuring DTMF for H.323 Protocol

When using an H.323 account or logging into the StarLeaf platform, you can set the DTMF transmission method for the H.323 protocol.

### Procedure

1. On your web user interface, go to **Account > VC Platform > Platform Type > StarLeaf** or **Account > H.323**.
2. Configure and save the following settings:

Parameter	Description	Configuration Method
<b>DTMF Type</b>	Configure the DTMF type. <ul style="list-style-type: none"> <li>• <b>INBAND</b>—DTMF digits are transmitted in the voice band, together with the general RTP voice packet.</li> <li>• <b>Auto</b>—the system automatically negotiates the way (INBAND, RFC2833 or SIP INFO) to transfer DTMF digits.</li> </ul> <b>Default:</b> Auto.	Web user interface Endpoint CTP20

## Configuring Video Settings

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- [Display Layout Settings](#)
- [Changing the Video Input Source](#)
- [Configuring HDMI Extended Display by VP59](#)
- [Specifying Content to the Secondary Screen](#)
- [Maximizing Monitor Video Display](#)
- [Selecting the Video Frame Rate and the Resolution](#)
- [Configuring the Monitor Resolution](#)
- [Configuring VC200 Experimental Access \(Auto Framing\)](#)
- [Showing the Site Name to Remote Parties](#)

## Display Layout Settings

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- [Setting the Default Layout for a Single Screen](#)
- [Configuring Change Layout by Content Sharing](#)
- [Configuring Auto Zoom In Content for a Single Screen](#)
- [Hiding Local Video Image in Equal Layout](#)
- [Configuring Hide Local Video When PIP](#)
- [Configuring Multi-Camera Default Layout](#)
- [Configuring Voice Activation](#)
- [Configuring the View Switching](#)
- [Configuring Preview Local](#)

### Setting the Default Layout for a Single Screen

When only one monitor is connected to the system, you can configure the default layout when a call is established.

#### About this task

For VP59, if you do not connect a monitor to it, it is single screen by default.

#### Procedure

1. On your web user interface, go to **Setting > Call Features > Layout > Default Layout of Single Screen**.

On your VP59, go to **Setting > Call Features > Default Layout**.

2. Configure and save the following settings:

Parameter	Description	Configuration Method
<b>Default Layout of Single Screen</b>	<p>Configure the default layout of single screen when a call is established.</p> <ul style="list-style-type: none"> <li>• <b>Remote big Local small</b>—the remote video image is shown in the big size, and the local video image below is shown in the small size.</li> <li>• <b>Remote Full screen</b>—the remote video image is shown in full size.</li> <li>• <b>Equal NxN</b>—the remote and local video images are shown in the same size.</li> <li>• <b>Picture in Picture</b>—the remote video image is shown in full screen, and local video image is shown in the PIP (Picture-in-Picture). (it is not applicable to VP59)</li> </ul> <p><b>Default:</b> Picture in Picture. For VP59, the video image of the remote party is displayed in large window and the local video image is displayed in small window.</p>	Web user interface

### Configuring Change Layout by Content Sharing

The **Change Layout by Content Sharing** is enabled by default. During a call, when you are presenting on the endpoint with a single screen connected to, the layout mode is changed into 1+N or voice-

activated(except for VP59) mode automatically no matter what the current layout mode is, and the content is enlarged and displayed on the screen. If the **Change Layout by Content Sharing** is disabled when you are presenting during a call, the current mode is not changed in other modes, but the content is enlarged and displayed on the screen.

### About this task

If the **Change Layout by Content Sharing** is disabled, the display layout when you are presenting during a call is shown as below:

The current layout	Display layout after you are making a presentation
<b>Picture-in-picture</b>	The display layout is changed into <b>1+N</b> , and the content is enlarged and displayed in the screen.
<b>1+N</b>	The display layout is still <b>1+N</b> , but the content is enlarged and displayed in the screen.
<b>Selected Speaker</b>	The display layout is still <b>Selected Speaker</b> , but the content is displayed in full screen
<b>Equal N×N</b>	Every participant is given equal prominence in equal-sized panes.

### Procedure

1. On your web user interface, go to **Setting > Call Features > Layout**.  
On your VP59, go to **Setting > Call Features**.
2. Configure and save the following settings:

Parameter	Description	Configuration Method
<b>Change Layout by Content Sharing</b>	Enable or disable <b>Change Layout by Content Sharing</b> . <b>Default:</b> On.	Web user interface

### Related information

[Configuring Content Sharing](#)

## Configuring Auto Zoom In Content for a Single Screen

If the endpoint is connected to a single screen, and you do not need to automatically enlarge the presentation when you are presenting, you can disable the **Auto Zoom In Content** feature. The screen keeps the original display layout and will not change the enlarged object. This feature is not applicable to VP59.

### Procedure

1. On your web user interface, go to **Setting > Call Features > Layout**.

2. Configure and save the following settings:

Parameter	Description	Configuration Method
<b>Auto Zoom In Content</b>	<p>Enable or disable <b>Auto Zoom In Content</b>.</p> <p><b>Note:</b> This configuration can be configured only when the <b>Change Layout by Content Sharing</b> feature is disabled, and is enabled by default.</p>	Web user interface

#### Related tasks

[Configuring Change Layout by Content Sharing](#)

## Hiding Local Video Image in Equal Layout

If you want to focus on the far sites or the PC content in a call (its video layout is equal layout), you can choose to hide the local video image.

#### Procedure

1. On your web user interface, go to **Setting > Call Features > Layout**.  
On your VP59, go to **Setting > Call Features**.
2. Configure and save the following settings:

Parameter	Description	Configuration Method
<b>Equal Display Local</b>	<p>Select <b>Off</b> to hide local video image when the video layout is equal.</p> <ul style="list-style-type: none"> <li>• <b>On</b>—the local video image is shown.</li> <li>• <b>Off</b>—the local video image is hidden.</li> </ul> <p><b>Default:</b> On.</p>	Web user interface

## Configuring Hide Local Video When PIP

In the PIP (Picture-in-Picture) mode, the local video image is always shown at the bottom corner of the screen. If you enable hide local video when PIP, the local video image is automatically hidden within 5 minutes if there is no operation from the remote control/CTP20/CP960. This feature is not applicable to VP59.

#### About this task

PIP only takes effect on the local layout. In a two-way video call, the video on one end is displayed in a large screen, and the small screen of the other end is superimposed on the lower right side of the large screen. In the YMS/Cloud conference, the large screen displays the conference layout and the small screen displays the local video.

#### Procedure

1. On your web user interface, go to **Setting > Call Features > Layout**.

## 2. Configure and save the following settings:

Parameter	Description	Configuration Method
<b>Hide Local Video When PIP</b>	<p>Enable or disable the local video image to hide in the PIP (Picture-in-Picture).</p> <ul style="list-style-type: none"> <li>• <b>On</b>—the local video image is hidden in the PIP.</li> <li>• <b>Off</b>—the local video image is shown in the PIP.</li> </ul> <p><b>Default:</b> Off.</p>	Web user interface

## Configuring Multi-Camera Default Layout

During a call, if you connect VCC22, all the local video streams are synthesized to one video stream, and sent to the far site. You can configure the default layout when you connect multiple cameras and set the camera you want to highlight.

### Procedure

1. On your web user interface, go to **Setting > Camera > Camera**.
2. Configure and save the following settings:

Parameter	Description	Configuration Method
<b>Multi-camera Default Layout</b>	<p>Configure the default camera layout when you use multiple cameras.</p> <p>The supported layouts are described as below:</p> <ul style="list-style-type: none"> <li>• 1+N</li> <li>• Selected Speaker</li> <li>• Average</li> </ul> <p><b>Note:</b> the default value is 1+N.</p> <p>It is not applicable to VC200/VC500/PVT950.</p>	Web user interface
<b>Select a camera</b>	<p>Select the camera you want to highlight.</p> <p><b>Note:</b></p> <p>The first connected camera.</p> <p>This configuration appears only if <b>Multi-camera Default Layout</b> is set to <b>1+N</b> or <b>Selected Speaker</b>.</p> <p>It is not applicable to VC200/VC500/PVT950.</p>	Web user interface



**Note:** It is not available if you only connect one VCC22 to the system and you disable the main camera or the connected VCC22.

## Configuring Voice Activation

If the voice activation feature is enabled, the system displays the active speaker in the largest pane, while other participants are displayed in a strip beside the active speaker. When a new speaker is identified, the image of the previous speaker is replaced by this new speaker. Other video images remain unchanged. This feature is not applicable to VP59.

### About this task



#### Note:

Voice activation is only applicable to PVT980/PVT950/VC880/VC800 system with a multipoint license. It is not applicable to VC500/VC200 endpoint.

Voice activation works only when the conference call has more than two participants.

### Procedure

1. On your web user interface, go to **Setting > Built-in MCU Setting > Conference Setting**.
2. Configure and save the following settings:

Parameter	Description	Configuration Method
<b>Voice Activation</b>	Enable or disable the voice activation feature. <b>Default:</b> On.	Web user interface
<b>Voice Hold Active Duration</b>	Configure the voice activation interval. <b>Note:</b> the default value is 1 second. If the voice duration of a speaker is greater than 1 second, the video image of this speaker is displayed in the largest pane.	Web user interface

## Configuring the View Switching

The view switching allows the video images on the monitor to be switched automatically. It is initiated when the number of participants exceeds the number of windows in the selected video layout.

- **Average Mode:** Up to 9 video images can be displayed in the Equal N×N layout. When the number of participants exceeds 9, all participants' video images will be switched automatically. The video image of the active speaker is indicated by an orange border. If you share content, the PC content is fixed at the top-left corner and will not be switched automatically.
- **1+N Mode:** Up to 8 video images can be displayed in the Speaker View layout and the 1+N layout. When the number of participants exceeds 8, all participants' video images (except the active speaker) will be switched automatically. If you share content, the PC content is given prominence in the largest pane. The active speaker is fixed at the bottom-left corner, and other video images will be switched automatically.



#### Note:

The view switching is only applicable to VC880/VC800/PVT980/PVT950 system with a multipoint license. It is not applicable to VC500/VC200 endpoint.

- [Configuring the Average Mode](#)

- [Configuring 1+N Mode](#)

### Configuring the Average Mode

In Equal N×N layout, when the number of participants exceeds 9, all participants' video images will be switched automatically. You can configure the switching mode.

#### Procedure

1. On your web user interface, go to **Setting > Built-in MCU Setting > Video Layout > Average Mode**.
2. Configure and save the following settings:

Parameter	Description	Configuration Method
<b>View Switching Interval</b>	Configure the view switching interval.  <b>Note:</b> the default value is 30 seconds.  The video images will be switched automatically every 30 seconds.	Web user interface
<b>Single View Round</b>	Switches one video image at a time.	Web user interface
<b>Full Screen Round</b>	Switches all video images at a time.	Web user interface

### Configuring 1+N Mode

In Speaker View layout and 1+N layout, up to 8 video images can be displayed. When the number of participants exceeds 8, all participants' video images will be switched automatically. But the video images of active speaker and the content are not be switched.

#### Procedure

1. On your web user interface, go to **Setting > Built-in MCU Setting > Video Layout > 1+N Mode**.
2. Configure and save the following settings:

Parameter	Description	Configuration Method
<b>View Switching Interval</b>	Configure the view switching interval.  <b>Note:</b> the default value is 30 seconds.  The video images will be switched automatically every 30 seconds.	Web user interface
<b>View Round</b>	Configure the number of video images to be switched at a time.  <b>Note:</b> the default value is 1. <b>Valid value:</b> 1 - 7.	Web user interface

Parameter	Description	Configuration Method
<b>Full Screen Round</b>	Switches all video images (except for the active speaker and the content) at a time.	Web user interface

## Configuring Preview Local

If there is no local screen in the current layout (such as remote full screen or split mode does not display local), the local thumbnail image cannot be viewed when adjusting the local camera, so the camera cannot be accurately adjusted. If you enable preview local, when there is no local screen in the current layout, the local small window is superimposed in the lower right corner of the screen when you adjust the local camera. After no PTZ operation within five seconds, the local thumbnail image disappears.

### Procedure

1. On your web user interface, go to **Setting > Call Features > Layout**.
2. Configure and save the following settings:


Parameter	Description	Configuration Method
<b>Preview Local</b>	<p>Enable or disable to view the local thumbnail image by adjusting camera when there is no local screen in the current layout.</p> <ul style="list-style-type: none"> <li>• <b>On</b>-You can view the local thumbnail image when you adjust the camera.</li> <li>• <b>Off</b>-You can not view the local thumbnail image when you adjust the camera.</li> </ul> <p><b>Default:</b> On.</p>	Web user interface

## Changing the Video Input Source

Your system supports camera and PC video input source. If you do not share the contents during the call, the video input source is camera by default; if not, switch the video input source to Camera+PC to zoom in the screen. You can change the video input source and select the content to be displayed on the screen. This feature is not applicable to VP59.

### Procedure

Do one of the following during a call:

- On your web user interface, go to **Home > Input Choose**.
- On your remote control, press  or OK key to open **Talk Menu**, and select **Input Choose**.
  - If you select PC, the remote video image is shown in big size, and the PC content is shown in small size (Picture-in-Picture).
  - If you select Camera+PC, the PC content is shown in big size, and other video images are shown in small size.
  - If you select Camera, the remote video image is shown in big size, and the local video image is shown in small size (Picture-in-Picture).



## Configuring HDMI Extended Display by VP59

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After you enable the HDMI feature on VP59, if you connect a monitor to the phone during a video call, the video images of the remote party and the shared content are displayed on the monitor, and the call control page is displayed on phone screen.

### Procedure

1. On your phone, tap **Setting > Network & Connection**.
2. Configure and save the following settings:

Parameter	Description	Configuration Method
HDMI	Enable or disable the HDMI feature. <b>Default:</b> On.	Web user interface

## Specifying Content to the Secondary Screen

---

When you connect dual display screen, you can specify display the content on the secondary monitor. This feature is not applicable VC200/VP59.

### Procedure

1. On your web user interface, go to **Setting > Video & Audio > Output For Display 2**.


## 2. Configure and save the following settings:

Parameter	Description	Configuration Method
<b>Output in IDLE</b>	<p>Specify the content to be displayed on the secondary monitor when the system is idle.</p> <ul style="list-style-type: none"> <li>• <b>Auto</b>—The secondary monitor displays the content in this priority: PC&gt;Active Camera&gt;VC880/VC800/VC500/PVT980/PVT950 Camera&gt;Camera N.</li> <li>• <b>PC</b>—The secondary monitor displays the PC content.</li> <li>• <b>Active Camera</b>—The currently active camera. The camera displayed on the secondary monitor changes as the active camera changes. If you use the VC880/VC800/PVT980 camera as the active camera first, and then you select the preset of camera 1 (The <b>Preset Synchronize With Active Camera</b> feature is enabled, and the active camera becomes camera 1 at this time), the secondary monitor displays the image of camera 1.</li> <li>• VC880/VC800/VC500/PVT980/PVT950 Camera—The secondary monitor displays the video images from the local camera.</li> <li>• <b>Camera N</b>—The secondary monitor displays the video images from the connected camera N.</li> </ul> <p><b>Default:</b> Auto.</p>	Web user interface
<b>Default Output in Call</b>	<p>Specify the content to be displayed on the secondary monitor during a call.</p> <ul style="list-style-type: none"> <li>• <b>Auto</b>—The secondary monitor displays the content in this priority: PC&gt; Local camera.</li> <li>• <b>PC</b>—The secondary monitor displays the PC content.</li> <li>• <b>Local</b>—The secondary monitor displays the video images from the local camera.</li> </ul> <p><b>Note:</b> the default value is Auto. After you specify “Output for Display 2”, you can still modify the content to be displayed on the secondary monitor temporarily during a call via CTP20 or remote control. But the next time you establish a call, the content to be displayed on the secondary monitor is controlled by the “Output For Display 2” .</p>	Web user interface

## Maximizing Monitor Video Display

Your monitor may not display the entire HD image. To solve this problem, you can adjust the monitor to display an entire HD image manually. This feature is not applicable to VP59.

### Procedure

1. Do one of the following:
  - On your VCS, go to **More > Setting > Basic > Display**.
  - On your CTP20, tap  > **Setting > Basic > General > Display**.
2. Adjust the monitor display.
3. Save the change.

## Selecting the Video Frame Rate and the Resolution

To transfer a clear and smooth video, you can specify the maximum frame rate and the resolution for local video according to the network environment.

### Procedure

1. On your web user interface, go to **Setting > Video & Audio > Main**.
2. Configure and save the following settings:

Parameter	Description	Configuration Method
<b>Enable 60fps</b>	Enable or disable 60fps for a video call.  <b>Note:</b> the default value is On. It is not applicable VC200/VP59.	Web user interface
<b>Frame</b>	Configure the maximum frame rate for a video call.  <ul style="list-style-type: none"> <li>• 5fps</li> <li>• 15fps</li> <li>• 30fps</li> <li>• 60fps—this option appears only when you enable 60fps.</li> </ul> <b>Default:</b> 30fps.	Web user interface
<b>Resolution</b>	Configure the maximum resolution for a video call.  <ul style="list-style-type: none"> <li>• 1080P</li> <li>• 720P</li> </ul> <b>Default:</b> 1080P.	Web user interface



### Note:

If both call parties do not use H.265 codec, but use WDR exposure mode and 60fps, the call will switch to auto exposure mode automatically. For more information, refer to [Adjusting the Exposure](#).

## Configuring the Monitor Resolution

---

You can specify the resolution for the monitor.

### Procedure

1. Do one of the following:
  - On your web user interface, go to **Setting > Video & Audio > Output Resolution**.
  - On your CP960 conference phone, go to **Setting > Display > Resolution**.
2. Configure and save the following settings:

Parameter	Description	Configuration Method
<b>HDMI1</b>	Set the output resolution of the HDMI 1 display device. <ul style="list-style-type: none"> <li>• <b>Auto</b>-select the highest output resolution automatically.</li> <li>• The available output resolutions (The available resolutions depend on the monitor you are using).</li> </ul> <b>Default:</b> Auto.	Web user interface CP960 Conference Phone
<b>HDMI 2</b> (it is not applicable to VP59)	Enable or disable the HDMI 2 display. <b>Default:</b> On.	Web user interface
<b>HDMI 2</b> (it is not applicable to VP59)	Set the output resolution of the HDMI 2 display device. <ul style="list-style-type: none"> <li>• <b>Auto</b>-select the highest output resolution automatically.</li> <li>• The available output resolutions (The available resolutions depend on the monitor you are using).</li> </ul> <b>Default:</b> Auto. It is configurable only when HDMI 2 display is enabled.	Web user interface CP960 Conference Phone

## Configuring VC200 Experimental Access (Auto Framing)

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The experimental access feature currently includes the auto framing, which is mainly based on face detection. Real-time detection and position tracking are performed on all faces in the conference room. The camera can be automatically adjusted according to the number of participants and their positions. All participants are covered in the output screen captured by the camera.

### About this task



**Attention:** Note the following points when using the VC200 experimental access feature:

- After the auto framing is enabled, other devices cannot perform PTZ control on the VCS camera, and the camera preset function does not take effect.
- The number of face detections on the VC200 can support up to 8 faces simultaneously in a range of 5 meters.
- The experimental access is a new feature that Yealink is still researching and developing. It is available to users for trial use in advance, but this feature is still unstable now. It is not recommended for daily use.

### Procedure

1. On your web user interface, go to **Security > Experimental Access**.
2. Configure and save the following settings:

Parameter	Description	Configuration Method
<b>Experimental Access</b>	It is configurable only after the experimental access is enabled.  <b>Note:</b> the default value is Off. It takes 5 consecutive confirmations to activate the experimental access feature.	Web user interface
<b>Auto Framing</b>	After enabled, the VC200 can automatically adjust the camera according to the number of participants and their positions, and output all participants' images. The panorama is output when no person is detected in the initial state or in the camera angle.  <b>Note:</b> the default value is Off. It is configurable only when the experimental access feature is enabled.	Web user interface

## Showing the Site Name to Remote Parties

Showing the local site name to the remote parties makes remote parties better identify the site when making multi-way video calls. You can also customize the site name position, the text size, the color, and set the background color and background transparency of the text. This feature is not applicable to VP59.

### Procedure

1. On your web user interface, go to **Setting > Video & Audio > Show Site Name On Video**.
2. Configure and save the following settings:

Parameter	Description	Configuration Method
<b>Show Site Name</b>	Configure whether to show the site name to the remote parties during a call.  <b>Default:</b> Disable.	Web user interface

Parameter	Description	Configuration Method
<b>Location</b>	Configure the position where the local site name is displayed on the screens of the remote parties during a call. <ul style="list-style-type: none"> <li>• Upper Left</li> <li>• Lower Left</li> <li>• Upper Right</li> <li>• Lower Right</li> </ul> <b>Default:</b> Lower Right.	Web user interface
<b>Text Size</b>	Configure the text size of the local site name to be displayed on the screens of the remote parties during a call. <ul style="list-style-type: none"> <li>• Large</li> <li>• Medium</li> <li>• Small</li> </ul> <b>Default:</b> Medium.	Web user interface
<b>Text Color</b>	Configure the text color of the local site name to be displayed on the screens of the remote parties during a call. <ul style="list-style-type: none"> <li>• White</li> <li>• Black</li> <li>• Grey</li> <li>• Red</li> <li>• Orange</li> <li>• Yellow</li> <li>• Green</li> <li>• Cyan</li> <li>• Blue</li> <li>• Purple</li> </ul> <b>Default:</b> White.	Web user interface
<b>Background Color</b>	Configure the text background color of the local site name to be displayed on the screens of the remote parties during a call. <ul style="list-style-type: none"> <li>• White</li> <li>• Black</li> <li>• Grey</li> </ul> <b>Default:</b> Grey.	Web user interface

Parameter	Description	Configuration Method
<b>Background Transparency</b>	<p>Configure the text background transparency of the local site name to be displayed on the screens of the remote parties during a call.</p> <ul style="list-style-type: none"> <li>• Opaque</li> <li>• Semitransparent</li> <li>• Transparent</li> </ul> <p><b>Default:</b> Transparent.</p>	Web user interface



**Note:** The site name is not displayed in the following cases:

- PVT980/PVT950/VC880/VC800/VC500 uses the H265 video codec to establish a call
- VC200 uses the H263 video codecs to establish a call
- PVT980/VC880/VC800 uses built-in MCU to establish a local conference



**Tip:** In a cloud/YMS conference call, the site name set by Yealink Meeting Management Platform/Yealink Meeting Server is displayed in the top-left corner by default. To avoid name superposition, you can disable this feature on the Yealink Meeting Management Platform/Yealink Meeting Server or the endpoint.

#### Related tasks

[Configuring the Site Name](#)

## Configuring Content Sharing

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Content sharing is to send a secondary stream through a dual-stream protocol or a mix sending method, so that the remote party can share your local content presentation. If the far site does not support the dual-stream protocol, you can select the Mix Sending feature to mix the video and content, and then send them to the far site in one stream.

By default, the PC presentation is enabled on the system when the content is sharing. If you do not want the system to automatically start a PC presentation, you can disable it. You can configure the mode, the frame rate and the resolution for the shared content.

For more information, refer to [Yealink Meeting Server User Guide](#).

- [Configuring Dual-Stream Protocol](#)
- [Configuring Mix-Sending](#)
- [Configure Content Sharing](#)

## Configuring Dual-Stream Protocol

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The dual-stream protocol allows the video and PC content to be transmitted to the far site simultaneously, thus meeting the requirements of different conference scenarios, such as training or medical consultation. Based on this protocol, the participants can share contents while having a video call.

The Yealink video conferencing system supports the standard H.239 protocol and BFCP (Binary Floor Control Protocol). The Yealink Cloud account and YMS account support dual-stream protocol by default. If you want to share contents during the call using the SIP protocol and H.323 protocol, you need to enable the H.239 protocol and BFCP in advance.

- [Configuring the H.239 Protocol](#)
- [Configuring BFCP \(Binary Floor Control dual Protocol\)](#)

## Configuring the H.239 Protocol

H.239 protocol is used when sharing content with the far site in H.323 calls. You can configure the H.239 protocol for the StarLeaf platform or H.323 account.

### Procedure

1. On your web user interface, go to **Account > VC Platform > Platform Type > StarLeaf** or **Account > H.323**.
2. Configure and save the following settings:

Parameter	Description	Configuration Method
<b>H.239</b>	Enable or disable the H.239 protocol.  <b>Default:</b> On.	Web user interface

## Configuring BFCP (Binary Floor Control dual Protocol)

BFCP is used when sharing content with the remote in SIP calls. You can configure the BFCP protocol for Zoom, Pexip, BlueJeans, EasyMeet or a custom third-party platform, SIP account, and SIP IP call.

### Procedure

1. Do one of the following:
  - On your web user interface, go to **Account > VC Platform > Video Conference Platform > Platform Type > Zoom/Pexip/BlueJeans/EasyMeet /Videxio/Custom**.
  - On your web user interface, go to **Account > SIP Account/SIP IP Call**.
2. Configure and save the following settings:

Parameter	Description	Configuration Method
<b>BFCP</b>	Enable or disable the BFCP.  <b>Note:</b> BFCP is disabled by default.  This feature is not applicable to Yealink StarLeaf Cloud platform.	Web user interface

### Related tasks

[Configuring Mix-Sending](#)

## Configuring Mix-Sending

During a call, the device of the remote party may not support dual-stream protocol or the dual-stream protocol may fail to negotiate. Therefore, you need enable this feature, so that multiple video streams (the local video + the local content) can be synthesized to one video stream and sent to the remote.

### Procedure

1. On your web user interface, go to **Setting > Video & Audio > Presentation**.



2. Configure and save the following settings:

Parameter	Description	Configuration Method
<b>Mix</b>	Enable or disable the mix-sending feature on the system. <b>Note:</b> the default value is On.	Web user interface



**Note:** If both parties enable the dual-stream protocol, the dual-stream protocol will be used to send multiple video streams.

## Configure Content Sharing

You can configure whether to enable PC presentation on the system when the content is sharing. You can also specify the mode, the maximum frame and the resolution for the shared content. Make sure that the definition of the presentation is good. You can not configure the content sharing mode for VP59, but you can configure frame and resolution for VP59.

### Procedure

1. On your web user interface, go to **Setting > Video & Audio > Content Sharing**.
2. Configure and save the following settings:

Parameter	Description	Configuration Method
<b>Content Sharing Mode</b> (it is not applicable to VP59)	Configure the content sharing mode. <ul style="list-style-type: none"> <li>• <b>Sharing Document</b>- select this value to save bandwidth when you are sharing a document. By default, the maximum frame rate is 15fps and the maximum resolution is 1080P.</li> <li>• <b>Sharing Video</b>: select this value to play video fluently when you are sharing a video. By default, the maximum frame rate is 30fps and the maximum resolution is 720P.</li> </ul> <b>Default:</b> sharing document.	Web user interface
<b>Automatic Content Sharing</b> (it is not applicable to VP59)	Configure whether to enable PC presentation on the system when the content is sharing. <b>Default:</b> On.	Web user interface

Parameter	Description	Configuration Method
<b>Frame</b>	Configure the maximum frame rate when the content is sharing. <ul style="list-style-type: none"> <li>• 5 fps</li> <li>• 15 fps</li> <li>• 30 fps</li> </ul> <b>Default:</b> 15 fps.	Web user interface
<b>Resolution</b>	Configure the maximum resolution when the content is sharing. <ul style="list-style-type: none"> <li>• 1080P</li> <li>• 720P</li> </ul> <b>Default:</b> 1080P.	Web user interface

## Configuring Camera Settings

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You can configure the following settings on VC880/VC800/VC500/VC200/PVT980/PVT950.

- [Selecting and Setting Cameras](#)
- [Viewing Camera Status](#)
- [Adjusting Camera Angle and Focus](#)
- [Adjusting the White Balance](#)
- [Adjusting the Exposure](#)
- [Displaying Camera Name When Multi-camera Connected](#)
- [Adjusting the Camera Display Image](#)
- [Adjusting Hangup Mode and Camera Pan Direction](#)
- [Configuring Continuous Auto Focus](#)
- [Setting the Camera Presets](#)
- [Configuring Presets Synchronized With Active Cameras](#)
- [Allowing the Remote System to Control Your Camera](#)
- [Reset Camera](#)

## Selecting and Setting Cameras

---

You can select a camera, enable or disable the selected camera, or customize the camera name. This feature is not applicable to VP59.

### Procedure

1. On your web user interface, go to **Setting > Camera**.
2. Configure and save the following settings:

Parameter	Description	Configuration Method
<b>Camera</b>	Configure the desired camera.	Web user interface


Parameter	Description	Configuration Method
<b>Status</b>	Enable or disable the selected camera. <b>Default:</b> On. It is not applicable to VC200/VC500/PVT950.	Web user interface
<b>Select a Camera</b>	Customize the camera name.	Web user interface

## Viewing Camera Status

### About this task

This feature is not applicable to VP59.

### Procedure

- Do one of the following:
  - On your web user interface, go to **Setting > Camera > Camera Info**.
  - On your VCS, go to **More > Status > Camera**.
  - On your CTP20, tap  > **Setting > System Status > Camera**.
- You can view the following camera status:





Parameter	Description	Configuration Method
<b>Select a Camera</b>	Customize the camera name.	Web user interface
<b>Model</b>	The VCS codec model.	Endpoint
<b>IP</b>	The IP address of the selected camera.	Web user interface
<b>Firmware Version</b>	The firmware version of the selected camera.	Web user interface
<b>Hardware Version</b>	The hardware version of the selected camera.	Web user interface
<b>SPEC</b>	The specification of the selected camera.	Web user interface Endpoint CTP20
<b>MAC</b>	The MAC address of the selected camera.	Web user interface
<b>Camera Hardware</b>	The hardware version of the camera lens.	Web user interface Endpoint CTP20

## Adjusting Camera Angle and Focus

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You can pan, tilt and zoom your own camera. This feature is not applicable to VP59.

### Procedure


1. Do one of the following:
  - On your web user interface, go to **Home > Yourself > **.
  - On your VCS, select the local video.
  - On your CP960 conference phone, tap **Camera**.
  - On your CTP20, tap .
2. Use the navigation keys to adjust the camera angle.
3. Click  (**-**) or  (**+**) to adjust the focal length.

## Adjusting the White Balance

---

To display high quality video image, you can adjust camera white balance. This feature is not applicable to VP59.

### Procedure

1. Do one of the following:
  - On your web user interface, go to **Setting > Camera > White Balance**.
  - On your VCS:
    - On your VC880/VC800/VC500/PVT980/PVT950, go to **More > Setting > Camera Setting > White Balance Mode**.
    - On your VC200, go to **More > Setting > Video & Audio > White Balance Mode**.
  - On your CTP20, select  **> Setting > Basic > Camera > White Balance**.

## 2. Configure and save the following settings:

Parameter	Description	Configuration Method
<b>White Balance Mode</b>	<p>Configure the white balance mode of the camera.</p> <ul style="list-style-type: none"> <li>• <b>Auto</b>—Yealink recommends that you use this setting for most situations. It calculates the best white balance setting based on lighting conditions in the room.</li> <li>• <b>InDoor/Indoor</b></li> <li>• <b>OutDoor/Outdoor</b></li> <li>• <b>OnePush/One Push</b></li> <li>• <b>ATW</b>—automatically adjust the white balance according to the picture took by the camera.</li> <li>• <b>Manual/Manual Setting</b>—manually set a fixed value for color temperature.</li> </ul> <p><b>Default:</b> ATW.</p>	<p>Web user interface</p> <p>Endpoint</p> <p>CTP20</p>
<b>Color Temperature</b>	<p>Configure the value of the color temperature.</p> <p><b>Note:</b> the value is from 2800K to 6800K. The default value is the color temperature tested in your current environment. You can set this parameter only when the white balance mode is configured to Manual.</p>	<p>Web user interface</p> <p>Endpoint</p>

## Adjusting the Exposure

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To display the high quality video image, you can adjust the camera white balance. This feature is not applicable to VP59.

- [Configuring Auto Exposure Mode](#)
- [Configuring Manual Exposure Mode](#)
- [Configuring the Mode of Shutter Priority](#)
- [Configuring Aperture Priority](#)
- [Configuring the Mode of Brightness Priority](#)
- [Configuring the Mode of WDR-Auto](#)
- [Configuring WDR-Manual](#)

## Configuring Auto Exposure Mode

The goal of auto-exposure is to achieve desired brightness level, or so-called target brightness level in different lighting conditions and scenes, so that the videos or images captured are neither too dark nor too bright.

### Procedure

- Do one of the following:
  - On your web user interface, go to **Setting > Camera > Exposure**.
  - On your VCS:
    - On your VC880/VC800/VC500/PVT980/PVT950, go to **More > Setting > Camera > Exposure**.
    - On your VC200, go to **More > Setting > Video & Audio > Exposure**.
  - On your CTP20, tap  > **Setting > Basic > Camera > Exposure**.
- Select **Auto/Auto Exposure** from the **Exposure/Exposure mode** drop-down menu.
- Configure and save the following settings:


Parameter	Description	Configuration Method
<b>Exposure Compensation</b>	<p>Configure the value of exposure compensation.</p> <p>The exposure compensation is used to compensate the camera effectively when the camera is shooting in the backlighting. If the environment light is dark, you can increase the compensation value.</p> <p><b>Valid value:</b> from -6 to 6. The default value is 0.</p>	<p>Web user interface</p> <p>Endpoint</p> <p>CTP20</p>
<b>Flicker</b>	<p>Configure the value of camera flicker frequency.</p> <p>The supported types are as follows:</p> <ul style="list-style-type: none"> <li>50 Hz</li> <li>60 Hz</li> </ul> <p>The indoor lights powered by a 50Hz or 60Hz power source may produce a flicker. You can adjust the camera flicker frequency according to the power source that the light is powered by.</p> <p><b>Default:</b> 50 Hz.</p>	<p>Web user interface</p> <p>Endpoint</p> <p>CTP20</p>
<b>Gain/Gain Limit</b>	<p>Specify the value.</p> <p><b>Note:</b> the valid value is 1 to 15. The default value is 4.</p>	<p>Web user interface</p> <p>Endpoint</p> <p>CTP20</p>

Parameter	Description	Configuration Method
<b>WDR/Wide Dynamic Range</b>	<p>Off or Specify the WDR. The value represents the compression degree of the dynamic range</p> <p>Cameras with WDR technology can work perfectly both in the bright and the dark conditions and present clear images that balances different lighting, so that you can identify the details.</p> <ul style="list-style-type: none"> <li>• <b>Off</b>-do not use WDR.</li> <li>• 1~5</li> </ul> <p><b>Default:</b> 2.</p>	<p>Web user interface</p> <p>Endpoint</p> <p>CTP20</p>
<b>Metering</b>	<p>Configure the value of metering.</p> <ul style="list-style-type: none"> <li>• Average</li> <li>• Central</li> <li>• Bottom</li> <li>• Top</li> </ul> <p><b>Default:</b> Average.</p>	<p>Web user interface</p> <p>Endpoint</p> <p>CTP20</p>

## Configuring Manual Exposure Mode

Manual exposure mode allows you to achieve a combined exposure of the camera's aperture size and shutter speed.

### Procedure

- Do one of the following:
  - On your web user interface, go to **Setting > Camera > Exposure**.
  - On your VCS:
    - On your VC880/VC800/VC500/PVT980/PVT950, go to **More > Setting > Camera > Exposure**.
    - On your VC200, go to **More > Setting > Video & Audio > Exposure**.
  - On your CTP20, tap  > **Setting > Basic > Camera > Exposure**.
- Select **Manual/Manual Exposure** from the **Exposure/Exposure mode** drop-down menu.
- Configure and save the following settings:


Parameter	Description	Configuration Method
<b>Aperture</b>	<p>Configure the value of aperture.</p> <ul style="list-style-type: none"> <li>• Off</li> <li>• F1.6, F2.0, F2.4, F2.8, F3.4, F4, F4.8, F5.6, F6.8, F8, F9.6, F11, F14</li> </ul> <p><b>Default:</b> F3.4.</p>	<p>Web user interface</p> <p>Endpoint</p> <p>CTP20</p>

Parameter	Description	Configuration Method
<b>Shutter</b>	Configure the value of the shutter. <b>Value:</b> 1/60, 1/90, 1/100, 1/125, 1/180, 1/250, 1/350, 1/500, 1/725, 1/1000, 1/1500, 1/2000, 1/3000, 1/4000, 1/6000, 1/10000 <b>Default:</b> 1/100.	Web user interface Endpoint CTP20
<b>Gain</b>	Specify the value. <b>Note:</b> the valid value is 1 to 15. The default value is 2.	Web user interface Endpoint CTP20
<b>WDR/Wide Dynamic Range</b>	Off or Specify the WDR. The value represents the compression degree of the dynamic range  Cameras with WDR technology can work perfectly both in the bright and the dark conditions and present clear images that balances different lighting, so that you can identify the details.  <ul style="list-style-type: none"> <li>• <b>Off</b>-do not use WDR.</li> <li>• 1~5</li> </ul> <b>Default:</b> 2.	Web user interface Endpoint CTP20

## Configuring the Mode of Shutter Priority

Shutter priority allows you to choose a specific shutter speed while the camera adjusts the aperture to ensure adequate exposure.

### Procedure

- Do one of the following:
  - On your web user interface, go to **Setting > Camera > Exposure**.
  - On your VCS:
    - On your VC880/VC800/VC500/PVT980/PVT950, go to **More > Setting > Camera > Exposure**.
    - On your VC200, go to **More > Setting > Video & Audio > Exposure**.
  - On your CTP20, tap  > **Setting > Basic > Camera > Exposure**.
- Select **Shutter Priority** from the **Exposure/Exposure mode** drop-down menu.
- Configure and save the following settings:

Parameter	Description	Configuration Method
<b>Shutter</b>	Configure the value of the shutter. <b>Valid Value:</b> 1/60, 1/90, 1/100, 1/125, 1/180, 1/250, 1/350, 1/500, 1/725, 1/1000, 1/1500, 1/2000, 1/3000, 1/4000, 1/6000, 1/10000 <b>Default:</b> 1/100.	Web user interface Endpoint CTP20




Parameter	Description	Configuration Method
<b>Exposure Compensation</b>	<p>Configure the value of exposure compensation.</p> <p>The exposure compensation is used to compensate the camera effectively when the camera is shooting in the backlighting. If the environment light is dark, you can increase the compensation value.</p> <p><b>Valid value:</b> from -6 to 6. The default value is 0.</p>	<p>Web user interface</p> <p>Endpoint</p> <p>CTP20</p>
<b>Gain/Gain Limit</b>	<p>Specify the value.</p> <p><b>Note:</b> the valid value is 1 to 15. The default value is 4.</p>	<p>Web user interface</p> <p>Endpoint</p> <p>CTP20</p>
<b>WDR/Wide Dynamic Range</b>	<p>Off or Specify the WDR. The value represents the compression degree of the dynamic range</p> <p>Cameras with WDR technology can work perfectly both in the bright and the dark conditions and present clear images that balances different lighting, so that you can identify the details.</p> <ul style="list-style-type: none"> <li>• <b>Off</b>-do not use WDR.</li> <li>• 1~5</li> </ul> <p><b>Default:</b> 2.</p>	<p>Web user interface</p> <p>Endpoint</p> <p>CTP20</p>
<b>Metering</b>	<p>Configure the value of metering.</p> <ul style="list-style-type: none"> <li>• Average</li> <li>• Central</li> <li>• Bottom</li> <li>• Top</li> </ul> <p><b>Default:</b> Average.</p>	<p>Web user interface</p> <p>Endpoint</p> <p>CTP20</p>

## Configuring Aperture Priority

Aperture priority allows you to set a specific aperture value while the camera selects a shutter speed to match it that will result in proper exposure based on the lighting conditions as measured by the camera's light meter.

### Procedure


- Do one of the following:
  - On your web user interface, go to **Setting > Camera > Exposure**.
  - On your VCS:
    - On your VC880/VC800/VC500/PVT980/PVT950, go to **More > Setting > Camera > Exposure**.
    - On your VC200, go to **More > Setting > Video & Audio > Exposure**.
  - On your CTP20, tap  > **Setting > Basic > Camera > Exposure**.
- Select **Aperture Priority** from the **Exposure/Exposure mode** drop-down menu.
- Configure and save the following settings:

Parameter	Description	Configuration Method
<b>Aperture</b>	Disable aperture or set the desired value. <b>Value:</b> F1.6, F2.0, F2.4, F2.8, F3.4, F4.0, F4.8, F5.6, F6.8, F8, F9.6, F11, F14 and off <b>Default:</b> F3.4.	Web user interface Endpoint CTP20
<b>Exposure Compensation</b>	Configure the value of exposure compensation. The exposure compensation is used to compensate the camera effectively when the camera is shooting in the backlighting. If the environment light is dark, you can increase the compensation value. <b>Valid value:</b> from -6 to 6. The default value is 0.	Web user interface Endpoint CTP20
<b>Flicker</b>	Configure the value of camera flicker frequency. <b>Frequency:</b> <ul style="list-style-type: none"> <li>50 Hz</li> <li>60 Hz</li> </ul> The indoor lights powered by a 50Hz or 60Hz power source may produce a flicker. You can adjust the camera flicker frequency according to the power source that the light is powered by. <b>Default:</b> 50 Hz.	Web user interface Endpoint CTP20
<b>Gain</b>	Specify the value. <b>Note:</b> the valid value is 1 to 15. The default value is 4.	Web user interface Endpoint CTP20

Parameter	Description	Configuration Method
<b>WDR/Wide Dynamic Range</b>	<p>Off or Specify the WDR. The value represents the compression degree of the dynamic range</p> <p>Cameras with WDR technology can work perfectly both in the bright and the dark conditions and present clear images that balances different lighting, so that you can identify the details.</p> <ul style="list-style-type: none"> <li>• <b>Off</b>-do not use WDR.</li> <li>• 1~5</li> </ul> <p><b>Default:</b> 2.</p>	<p>Web user interface</p> <p>Endpoint</p> <p>CTP20</p>
<b>Metering</b>	<p>Configure the value of metering.</p> <ul style="list-style-type: none"> <li>• Average</li> <li>• Central</li> <li>• Bottom</li> <li>• Top</li> </ul> <p><b>Default:</b> Average.</p>	<p>Web user interface</p> <p>Endpoint</p> <p>CTP20</p>

## Configuring the Mode of Brightness Priority

### Procedure

- Do one of the following:
  - On your web user interface, go to **Setting > Camera > Exposure**.
  - On your VCS:
    - On your VC880/VC800/VC500/PVT980/PVT950, go to **More > Setting > Camera > Exposure**.
    - On your VC200, go to **More > Setting > Video & Audio > Exposure**.
  - On your CTP20, tap  > **Setting > Basic > Camera > Exposure**.
- Select **Brightness Priority** from the **Exposure/Exposure mode** drop-down menu.
- Configure and save the following settings:


Parameter	Description	Configuration Method
<b>Brightness</b>	<p>Configure the value of brightness.</p> <p><b>Note:</b> the valid value is from 0 to 14 and the default value is 6.</p>	<p>Web user interface</p> <p>Endpoint</p> <p>CTP20</p>

Parameter	Description	Configuration Method
<b>Flicker</b>	<p>Configure the value of camera flicker frequency.</p> <p>The supported types are as follows:</p> <ul style="list-style-type: none"> <li>• 50 Hz</li> <li>• 60 Hz</li> </ul> <p>The indoor lights powered by a 50Hz or 60Hz power source may produce a flicker. You can adjust the camera flicker frequency according to the power source that the light is powered by.</p> <p><b>Default:</b> 50 Hz.</p>	<p>Web user interface</p> <p>Endpoint</p> <p>CTP20</p>
<b>WDR/Wide Dynamic Range</b>	<p>Off or Specify the WDR. The value represents the compression degree of the dynamic range</p> <p>Cameras with WDR technology can work perfectly both in the bright and the dark conditions and present clear images that balances different lighting, so that you can identify the details.</p> <ul style="list-style-type: none"> <li>• <b>Off</b>-do not use WDR.</li> <li>• 1~5</li> </ul> <p><b>Default:</b> 2.</p>	<p>Web user interface</p> <p>Endpoint</p> <p>CTP20</p>
<b>Metering</b>	<p>Configure the value of metering.</p> <ul style="list-style-type: none"> <li>• Average</li> <li>• Central</li> <li>• Bottom</li> <li>• Top</li> </ul> <p><b>Default:</b> Average.</p>	<p>Web user interface</p> <p>Endpoint</p> <p>CTP20</p>

## Configuring the Mode of WDR-Auto

WDR mode is not applicable to VC200.

### Procedure

- Do one of the following:
  - On your web user interface, go to **Setting > Camera > Exposure**.
  - On your VC880/VC800/VC500/PVT980/PVT950, go to **More > Setting > Camera > Exposure**.
  - On your CTP20, tap  > **Setting > Basic > Camera > Exposure**.
- Select **WDR-Auto** from the **Exposure/Exposure mode** drop-down menu.

## 3. Configure and save the following settings:


Parameter	Description	Configuration Method
<b>Exposure Compensation</b>	<p>Configure the value of exposure compensation.</p> <p>The exposure compensation is used to compensate the camera effectively when the camera is shooting in a backlight environment. If the environment light is dark, you can increase the compensation value.</p> <p><b>Valid value:</b> from -6 to 6. The default value is 0.</p>	<p>Web user interface</p> <p>Endpoint</p> <p>CTP20</p>

## Configuring WDR-Manual

WDR-Manual mode is not applicable to VC200.

### Procedure

## 1. Do one of the following:

- On your web user interface, go to **Setting > Camera > Exposure**.
- On your VC880/VC800/VC500/PVT980/PVT950, go to **More > Setting > Camera > Exposure**.
- On your CTP20, tap  > **Setting > Basic > Camera > Exposure**.

2. Select **WDR-Manual** from the **Exposure/Exposure mode** drop-down menu.

## 3. Configure and save the following settings:

Parameter	Description	Configuration Method
<b>Exposure Compensation</b>	<p>Configure the value of exposure compensation.</p> <p>The exposure compensation is used to compensate the camera effectively when the camera is shooting in the backlighting. If the environment light is dark, you can increase the compensation value.</p> <p><b>Valid value:</b> from -6 to 6. The default value is 0.</p>	<p>Web user interface</p> <p>Endpoint</p> <p>CTP20</p>
<b>Exposure Ratio</b>	<p>Configure the value of exposure ratio.</p> <p><b>Note:</b> the valid value is 1 to 16. The default value is 1.</p> <p>The exposure ratio represents the ratio of long exposure to short exposure. In a backlit environment, the bright part uses a short exposure and the dark part uses a long exposure.</p>	<p>Web user interface</p> <p>Endpoint</p> <p>CTP20</p>

## Displaying Camera Name When Multi-camera Connected

If multiple cameras are connected to the VC880/VC800/PVT980, you can configure the device to display the camera names of the multiple cameras to distinguish the installation position or shooting position of each camera.

### Before you begin

Customize the name of your multiple cameras.

### Procedure

1. On your web user interface, go to **Setting > Camera > Other Settings**.
2. Configure and save the following settings:

Parameter	Description	Configuration Method
<b>Display Camera Name When Multi-camera</b>	Enable or disable to display the camera names of the multiple cameras. <b>Default:</b> On.	Web user interface


### Related tasks

[Selecting and Setting Cameras](#)

## Adjusting the Camera Display Image

To display high quality video image, you can adjust display mode of the camera or customize the image display. This feature is not applicable to VP59.

### Procedure

1. Do one of the following:
  - On your web user interface, go to **Setting > Camera > Graphics**.
  - On your VCS:
    - On your VC880/VC800/VC500/PVT980/PVT950, go to **More > Setting > Camera Setting > Graphics**.
    - On your VC200, go to **More > Setting > Video & Audio > Graphics**.
  - On your CTP20, tap  > **Setting > Basic > Camera > Graphics**.
2. Configure and save the following settings:

Parameter	Description	Configuration Method
<b>Display Mode</b>	Configure the display mode of the camera. <ul style="list-style-type: none"> <li>• High Definition</li> <li>• Standard</li> <li>• Mild</li> <li>• Custom</li> </ul> <b>Default:</b> Standard.	Web user interface Endpoint CTP20

Parameter	Description	Configuration Method
<b>Saturation</b>	<p>Configure the image saturation of the camera.</p> <p>The saturation means the maximum intensity of color in the image.</p> <p><b>Note:</b> the value is from 0 to 100. The default value is 50.</p>	<p>Web user interface</p> <p>Endpoint</p> <p>CTP20</p>
<b>Sharpness</b>	<p>Configure the image sharpness of the camera.</p> <p>The sharpness is an indicator that reflects the definition of the image plane and the sharpness of image edge. Increasing the sharpness will improve the definition of the image. However, if the sharpness is set too high, the image will look distorted and glaring.</p> <p><b>Note:</b> the value is from 0 to 100. The default value is 15.</p>	<p>Web user interface</p> <p>Endpoint</p> <p>CTP20</p>
<b>Brightness</b>	<p>Configure the image brightness of the camera.</p> <p><b>Note:</b> the value is from 0 to 100. The default value is 50.</p>	<p>Web user interface</p> <p>Endpoint</p> <p>CTP20</p>
<b>Contrast</b>	<p>Configure the image contrast of the camera.</p> <p><b>Valid value:</b> 0 - 100. The default value is 49.</p>	<p>Web user interface</p> <p>Endpoint</p> <p>CTP20</p>
<b>Noise Reduction (2D)</b>	<p>Specify the noise reduction (2D) mode.</p> <p>The available modes are described as below:</p> <ul style="list-style-type: none"> <li>• Off</li> <li>• Low</li> <li>• Middle</li> <li>• High</li> </ul> <p><b>Default:</b> Middle.</p>	<p>Web user interface</p> <p>Endpoint</p> <p>CTP20</p>


Parameter	Description	Configuration Method
<b>Noise Reduction (3D)</b>	Specify the noise reduction (3D) mode. It indicates the coefficient of the reduced noise in the image. The higher the coefficient is, the smaller the noise is.  <b>Valid value:</b> 0 - 22. The default value is 3.	Web user interface Endpoint CTP20

## Adjusting Hangup Mode and Camera Pan Direction

To display high quality video image, you can adjust camera settings as required, such as white balance, exposure and sharpness. This feature is not applicable to VP59.

### Procedure

1. Do one of the following:

- On your web user interface, go to **Setting > Camera > Other Settings**.
- On your VCS:
  - On your VC880/VC800/VC500/PVT980/PVT950, go to **More > Setting > Camera Setting > Graphics**.
  - On your VC200, go to **More > Setting > Video & Audio > Graphics**.
- On your CTP20, tap  > **Setting > Basic > Camera > Other**.

2. Configure and save the following settings:

Parameter	Description	Configuration Method
<b>Hangup Mode</b>	Enable or disable the camera to flip the image view when camera is hung at up-side-down position.  If this mode is enabled, the picture took by the camera is upside down. This mode is applicable when you install the camera on the meeting room ceiling.  <b>Default:</b> Off.	Web user interface Endpoint CTP20




Parameter	Description	Configuration Method
<b>Camera Pan Direction</b>	Configure the pan direction of the camera. <ul style="list-style-type: none"> <li>• Normal</li> <li>• Reversed</li> </ul> If the camera reversed mode is enabled, the camera pan direction will be reversed when pressing the left and right navigation keys on the remote control. In this case, you can set the camera pan direction to Reversed. <b>Default:</b> Normal.	Web user interface Endpoint CTP20

## Configuring Continuous Auto Focus

If you want to make the camera focus on the moving object automatically, you can enable this feature. If you want a fixed focal length for presentation, for example, the class, you can disable this feature. It is not available to VC200/ VP59.

### Procedure


- Do one of the following:
  - On your web user interface, go to **Setting > Camera > Focus**.
  - For VC880/VC800/VC500, go to **More > Setting > Camera Setting**.
  - On your CTP20, tap  > **Setting > Basic > Camera**.
- Configure and save the following settings:

Parameter	Description	Configuration Method
<b>Continuous Auto Focus</b>	Enable or disable continuous auto focus. <b>Default:</b> On.	Web user interface Endpoint CTP20

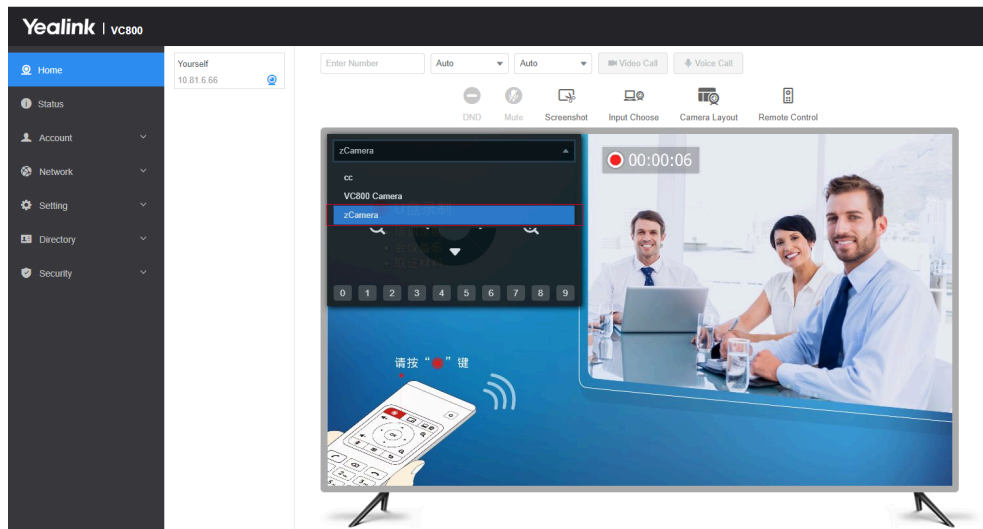
## Setting the Camera Presets

Camera presets are pre-saved values of the angle and the focal length of the camera with respect to the desired positions. The camera presets can help you quickly point a camera at pre-defined locations. The camera presets can remain in effect until you change them. This feature is not applicable to VP59.

### Procedure

- On your web user interface, go to **Home > Yourself > **.

- If there are multiple cameras connected, click the camera name area in the top-left corner and select the desired camera from the drop-down menu.



- Click any number to configure the camera presets. You can add, modify, and delete the preset.



**Note:** For more information about configuring presets via CP960 conference phone, CTP20 or the remote control, refer to the [Yealink Full HD Video Conferencing System User Guide](#).

## Configuring Presets Synchronized With Active Cameras

The preset synchronized with active camera feature is suitable for VC880/VC800/PVT980 with multiple VCC22 cameras connected. If this feature is enabled, when you select a preset, the corresponding camera is adjusted to this preset, and selected as the currently active camera. If disabled, when you select a preset, the corresponding camera is only adjusted to this preset, but not selected as the currently active camera. The active camera is still the camera selected by the current endpoint.

### Procedure

- On your web user interface, go to **Setting > Camera > Other Settings**.
- Configure and save the following settings:


Parameter	Description	Configuration Method
<b>Preset Synchronize With Active Camera</b>	Enable or disable the preset synchronize with the current active camera feature.  <b>Default:</b> On.	Web user interface

## Allowing the Remote System to Control Your Camera

You can allow the far site to control your camera, so that the far-end can meet their watching need.

To allow the far site to control your camera, meet the following conditions:

- Enable the protocol of camera control.
- Enable the feature of far control near camera (it is not applicable to VP59).

 **Note:** Note that during a call, you can use your VP59 to control the far-end camera, but the far-end cannot control the camera of your VP59.

- [Camera Control Protocol](#)
- [Configuring the Far Site to Control the Near Camera](#)

## Camera Control Protocol

If far site wants to control your camera, both the far site and you should enable the camera control protocol simultaneously. Your system supports FECC (Far End Camera Control) protocol. You can enable the FECC(H.323) protocol for the H.323 call and enable FECC(SIP) protocol for the SIP call.

- [Configuring FECC \(H.323\) Protocol](#)
- [Configuring FECC \(SIP\) Protocol](#)

### Configuring FECC (H.323) Protocol

When logging in to the StarLeaf platform or using an H.323 account, you can enable the FECC (H.323) protocol for H.323 calls. To control the far-site camera, both parties should enable this protocol simultaneously.

#### Procedure

1. On your web user interface, go to **Account > VC Platform > Platform Type > StarLeaf** or go to **Account > H.323**.
2. Configure and save the following settings:

Parameter	Description	Configuration Method
<b>FECC (H.323)</b>	Enable or disable FECC(H.323). Enables FECC (H.323) protocol, so that the remote can control the near camera.  <b>Default:</b> On.	Web user interface

### Configuring FECC (SIP) Protocol

When using SIP account, SIP IP call, or logging in to Zoom, Pexip, BlueJeans, EasyMeet, Videxio, or a custom third-party platform, you can enable FECC (SIP) control for SIP calls. To control the far-site camera, the call parties should enable this protocol simultaneously.

#### Procedure

1. Do one of the following:
  - On your web user interface, go to **Account > VC Platform > Video Conference Platform > Platform Type > Zoom/Pexip/BlueJeans/EasyMeet /Videxio/Custom**.
  - On your web user interface, go to **Account > SIP Account/SIP IP Call**.


2. Configure and save the following settings:

Parameter	Description	Configuration Method
<b>FECC (SIP)</b>	<p>Enable or disable the FECC (SIP) protocol for the far site to control the near camera.</p> <p><b>Note:</b></p> <p>For Zoom/Pexip/BlueJeans/EasyMeet/Videxio/Custom and SIP IP call, BFCP is enabled by default.</p> <p>For SIP account, BFCP is disabled by default.</p>	Web user interface

## Configuring the Far Site to Control the Near Camera

You can enable this feature to allow the remote to control your local camera, so that the image captured by the local camera can be displayed properly on the remote monitor. This feature is not applicable to VP59.

### Procedure

1. Do one of the following:
  - On your web user interface, go to **Setting > Video & Audio > Far Control Near Camera**.
  - On your VCS, go to **More > Setting > Video & Audio**.
  - On your CTP20, tap  > **Setting > Basic > Camera**.
2. Configure and save the following settings:


Parameter	Description	Configuration Method
<b>Far Control Near Camera</b>	<p>Enable or disable the far site to control the near-site camera.</p> <p><b>Default:</b> On.</p>	Web user interface Endpoint CTP20

## Reset Camera

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You can reset the camera to factory defaults.

### Procedure

1. Do one of the following:
  - On your web user interface, go to **Setting > Camera > Other Settings**.
  - On your VCS:
    - On your VC880/VC800/VC500/PVT980/PVT950, go to **More > Setting > Camera Setting > Other**.
    - On your VC200, go to **More > Setting > Video & Audio > Other**.
  - On your CTP20, tap  > **Setting > Basic > Camera > Other**.
2. Select **Reset Camera**.  
The system prompts whether or not you are sure to reset.

3. Confirm the action.

## Configuring the Virtual Room

Yealink video conferencing system can act as a virtual meeting room, so that other devices can dial the system to join a meeting. Your system supports the following two conference types: regular mode meeting room and virtual meeting room. You can configure the conference type and set the meeting password for the conference. This feature is not applicable to VP59.

The differences between regular mode meeting room and virtual meeting room are as below:

Conference Types	Supported Model	Difference	Multipoint Allocation
Regular Mode	VC800/VC500/VC200/PVT980/PVT950	Virtual meeting room 1: when participants call the virtual meeting room 1, the moderator also joins the meeting.	Up to 1 video call and 5 voice calls.
VMR Mode	VC800/VC880/PVT980 with a multipoint license	Virtual meeting room 1: when participants call the virtual meeting room 1, the moderator also joins the meeting.	The total MCU ways of the two virtual meeting rooms depends on the multipoint license you imported. You can allocate the MCU ways between two virtual meeting rooms respectively.
		Virtual meeting room 2: when participants call the virtual meeting room 2, only participants join the meeting, the moderator does not join the meeting.	

You can also configure the third-party virtual meeting room to make multi-party video calls.



### Note:

If you log into the Yealink VC Cloud Management Service, the conference may be managed via the Yealink VC Cloud Management Service only, you cannot configure it on your system.

- [Setting the Endpoint as a Regular Mode Conference Room](#)
- [Setting the Endpoint as VMR Mode Conference Rooms](#)
- [Joining the VMR](#)
- [Configuring the Third-party Virtual Meeting Room](#)

### Related information

[Multipoint Licenses](#)

## Setting the Endpoint as a Regular Mode Conference Room

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For regular mode conference, virtual meeting room 1 is available. You can configure the password for virtual meeting room 1 to prevent unauthorized participants from joining the virtual conference room.

### Procedure

1. On your web user interface, go to **Setting > Built-in MCU Setting > Conference Setting**.
2. Select **Regular Mode** from the **Conference Type** drop-down menu.
3. If you need to configure a conference room password for virtual conference room 1, configure and save the following settings:

Parameter	Description	Configuration Method
<b>Virtual Meeting Room 1 &gt; Meeting Password</b>	Enable or disable the system to configure a password for virtual meeting room1. <b>Default:</b> Disabled.	Web user interface
<b>Virtual Meeting Room 1 &gt; Password</b>	Configure the password for virtual meeting room 1. <b>Valid Value:</b> 1 to 10. <b>Default value:</b> blank.	Web user interface

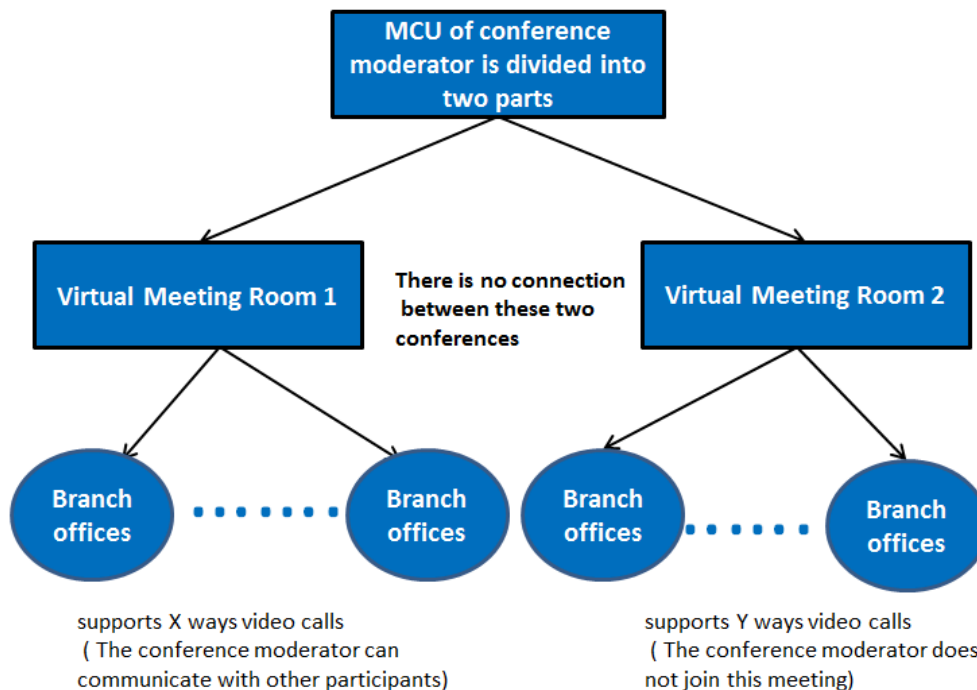
## Setting the Endpoint as VMR Mode Conference Rooms

---


In VMR mode conference, MCU can be used to host two independent conferences, corresponding to virtual meeting room 1 and virtual meeting room 2. VMR mode conference provides virtual meeting room 1 and 2. You can configure the password for virtual meeting room 1 and virtual meeting room 2 to prevent unauthorized participants from joining the virtual conference room. You can allocate the total MCU ways between two virtual meeting rooms at random.

### About this task

This feature is only applicable to VC800/VC880/PVT980. For VC880 / PVT980, VMR mode conferences are not supported when two or more cameras are connected.



- If you import an 8-way multipoint license to the VC800/VC880/PVT980,  $X+Y \leq 8$ . Virtual meeting room 1 and virtual meeting room 2 support up to 8-way video call.
- If you import a 16-way multipoint license to the VC800/VC880/PVT980,  $X+Y \leq 16$ . Virtual meeting room 1 and virtual meeting room 2 support up to 16-way video call.
- If you import a 24-way multipoint license to the VC800/VC880/PVT980,  $X+Y \leq 24$ . Virtual meeting room 1 and virtual meeting room 2 support up to 24-way video call.

 **Note:** When you import an 8 or 16-way multipoint license to the VC800/VC880/PVT980, virtual meeting room 1 provides additional 5 voice calls.

**Procedure**

1. On your web user interface, go to **Setting > Built-in MCU Setting > Conference Setting**.
2. Select **VMR Mode** from the **Conference Type** drop-down menu.
3. Configure and save the following settings:

Parameter	Description	Configuration Method
<b>Multipoint Allocation &gt; Virtual Meeting Room 1</b>	Allocates the maximum ways of video calls for virtual meeting room 1.	Web user interface
<b>Multipoint Allocation &gt; Virtual Meeting Room 2</b>	Allocates the maximum ways of video calls for virtual meeting room 2.	Web user interface
<b>Virtual Meeting Room 1 &gt; Meeting Password</b>	Enable or disable the system to configure a password for virtual meeting room1.  <b>Default:</b> Disabled.	Web user interface

Parameter	Description	Configuration Method
<b>Virtual Meeting Room 1 &gt; Password</b>	Configure the password for virtual meeting room 1. <b>Valid Value:</b> 1 to 10. <b>Default value:</b> 6.	Web user interface
<b>Virtual Meeting Room 2 &gt; Meeting Password</b>	Enable or disable the system to configure a password for virtual meeting room 2. <b>Note:</b> the default value is Off. Only when the meeting room type is VMR mode can this parameter be configured.	Web user interface
<b>Virtual Meeting Room 2 &gt; Password</b>	Configure the password for virtual meeting room 2. <b>Valid Value:</b> 1 to 10. <b>Default value:</b> blank. Only when the meeting room type is VMR mode can this parameter be configured.	Web user interface



**Note:** If you set a password for the virtual conference room, the remote party can not call in when using other account.

## Joining the VMR

If the virtual meeting room requires no password, dial IP address or account to enter the virtual meeting room.

If the virtual meeting room requires a password, only dial IP##meeting password or meeting password@IP to enter the virtual meeting room.

### Example:

- The IP address of the moderator is 10.3.6.201.
- The meeting password for virtual meeting room 1 is 123.
- The meeting password for virtual meeting room 2 is 456.

Participants can dial 10.3.6.201##123 or 123@10.3.6.201 to enter the virtual meeting room 1.

Participants can dial 10.3.6.201##456 or 456@10.3.6.201 to enter the virtual meeting room 2.

Without a meeting password or with a wrong meeting password, the call will fail.



## Configuring the Third-party Virtual Meeting Room

A Virtual Meeting Room (VMR) is an online space, typically hosted by a Cloud-service provider, where multiple participants can join. Participants usually join by dialing a specific number or an address with a simple name like zoomcrc.com.

### About this task

If you do not register a Cloud account, or you only register a Yealink Cloud account or YMS account, you can configure a third-party VMR (StarLeaf/Zoom/BlueJeans/Pexip/EasyMeet/Videxio Platform) in advance, so that you can quickly join a VMR without registering a third-party Cloud account.

Up to 5 third-party VMRs can be configured.



**Note:** Third-party virtual meeting room is not available on VC200 Custom Edition for Yealink Cloud.

### Procedure

1. On your web user interface, go to **Setting > 3rd Party VMR**.
2. Configure and save the following settings:

Parameter	Description	Configuration Method
<b>VMR Name 1 to 5</b>	<p>Specify the name of the virtual meeting room .</p> <p><b>Note:</b></p> <ul style="list-style-type: none"> <li>• The VMR name 1 is Zoom by default.</li> <li>• The VMR name 1 is BlueJeans by default.</li> <li>• The VMR name 3 to 5 is empty by default.</li> </ul> <p>It only works when you do not log into a Cloud platform, or you only register a Yealink Cloud account/YMS account.</p>	Web user interface

Parameter	Description	Configuration Method
<b>VMR Server 1 to 5</b>	<p>The IP address or the domain name of the VMR server.</p> <p><b>Note:</b></p> <ul style="list-style-type: none"> <li>• The VMR server 1 is zoomcrc.com by default.</li> <li>• The VMR server 2 is bjn.vc by default.</li> <li>• The VMR server 3 to 5 is empty by default.</li> </ul> <p>It only works when you do not log into a Cloud platform, or you only register a Yealink Cloud account/YMS account.</p>	Web user interface

The configured VMR will appear on the dialing screen on your web user interface and the monitor. You can select the desired VMR from the pull-down menu, and then enter the conference ID to call the corresponding VMR.

## Configuring Call Settings

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- [Selecting a Call Protocol](#)
- [Specifying the Video Call Rate](#)
- [Configuring Call Rate Adaptation](#)
- [Account Polling](#)
- [Selecting the CTP20 Conference Call Preferences](#)
- [Setting the CTP20 Contact Display Label](#)
- [Configuring Additional Audio Call](#)
- [Selecting the Multi-party Resources](#)
- [Configuring Call Match](#)
- [Search Source List in Dialing](#)
- [Configuring SIP IP Call by Proxy](#)
- [Configuring Ringback Timeout](#)
- [Configuring the Auto Refuse Timeout](#)
- [Auto Answer](#)
- [Muting Auto-Answered Calls](#)
- [Muting Auto-Dialed Calls](#)
- [DND \(Do Not Disturb\)](#)
- [Enabling Fast Audio Call for CP960 Conference Phone](#)
- [Dial Plan](#)

## Selecting a Call Protocol

The system supports SIP and H.323 protocols for the incoming and the outgoing calls.

### Procedure

1. Do one of the following:

- On your web user interface, go to **Setting > Call Features**.
- On your VCS, go to **More > Setting > Call Features**.

On your VP59, go to **Setting > Call Setting**.

2. Configure and save the following settings:

Parameter	Description	Configuration Method
<b>Call Protocol</b>	<p>Specify the desired call protocol for placing calls.</p> <p>The supported types are as follows:</p> <ul style="list-style-type: none"> <li>• <b>Auto</b>—the system automatically uses the available call protocol. The H.323 protocol is with the top priority.</li> <li>• <b>SIP</b>—the system only uses the SIP protocol for placing calls.</li> <li>• <b>H.323</b>—the system only uses H.323 protocol for placing calls.</li> </ul> <p><b>Default:</b> Auto.</p>	<p>Web user interface</p> <p>Endpoint</p>

## Specifying the Video Call Rate

You can specify the maximum video call rate. The configurable video call rates on the system are: 64kb/s, 128kb/s, 256kb/s, 384kb/s, 512kb/s, 768kb/s, 1024kb/s, 1280kb/s, 1500kb/s, 2000kb/s, 3000kb/s, 4000kb/s, 5000kb/s, 6000kb/s.

### About this task



**Note:** The call rates of audio and PC content are also affected by this configuration.

### Procedure

1. Do one of the following:

- On your web user interface, go to **Setting > Call Features**.
- On your VCS, go to **More > Setting > Call Features**.

On your VP59, go to **Setting > Call Setting**.

2. Configure and save the following settings:

Parameter	Description	Configuration Method
<b>Video Call Rate</b>	Configure the maximum video call rate. <b>Default:</b> 2000kb/s.	Web user interface Endpoint

## Configuring Call Rate Adaptation

The call rate adaptation feature is enabled by default. When the network bandwidth is less than the specified call rate, the endpoint will adaptively modify the sending resolution and frame rate to lower the sending rate during a call. In some network environments, if the sending rate is lowered, the sending resolution and frame rate cannot be restored due to call rate adaptation. You need to disable the call rate adaptation feature to place calls at a specified rate. Disabling the call rate adaptation feature can avoid the situation that the bandwidth cannot be recovered after packet loss.

### Procedure

1. On your web user interface, go to **Setting > Call Features**.
2. Configure and save the following settings:

Parameter	Description	Configuration Method
<b>Call Rate Adaptive</b>	Enable or disable the call rate adaptation. <b>Default:</b> Enable.	Web user interface

## Account Polling

Account polling feature allows the system to use different call types (Cloud platform/H.323 account/SIP account/PSTN account/H.323 IP Call/SIP IP Call) to dial a number when more than one account is registered. If account polling is disabled, the system can only dial a number by using the call type with the highest priority. That is, once the dialed number differs from the call type with the highest priority you are using, you cannot place a call.

### Example

1. System A is registered with a Yealink Cloud account and a SIP account.
  2. Select the call type automatically. Dial the number.
    - If account polling is enabled, system A will use its Cloud account (highest priority) to call system B first. If this call fails, system A continues to use its SIP account (the second highest priority) to call system B.
    - If account polling is disabled, system A can only use its Cloud account (highest priority) to call system B. SIP account can not be used to call out.
- [Priority of Call Types](#)
  - [Configuring the Account Polling](#)

## Priority of Call Types

On the dialing screen, if you select the call type automatically, the system will select a call type according to the following priority:

- If you dial an account, the priority is: **Cloud platform>H.323 account>SIP account>PSTN account**.
- If you dial an IP address, the priority is: **H.323 IP Call>SIP IP Call**.

## Configuring the Account Polling

### Procedure

1. On your web user interface, go to **Setting > Call Features**.
2. Configure and save the following settings:

Parameter	Description	Configuration Method
<b>Account Polling</b>	<p>Enable or disable the account polling on the system.</p> <ul style="list-style-type: none"> <li>• <b>Off</b>—the system dials a number by using the call type with the highest priority. If you disable this feature, once the dialed number differs from the call type you are using, you cannot place the call.</li> <li>• <b>On</b>—the system tries each call type in order to dial a number.</li> </ul> <p><b>Default:</b> On.</p>	Web user interface

### Related tasks

[Placing a Call by Entering a Number](#)

## Selecting the CTP20 Conference Call Preferences

The CTP20 conference call options include **Start Conference**, **Dial**, **Directory**, and **History**, and you can initiate a conference from any call option. The meeting call preferences determines the call interface that is first entered when the meeting is initiated.

### Procedure

1. On your web user interface, go to **Setting > Call Features > First Conference Call**.

2. Configure and save the following settings:

Parameter	Description	Configuration Method
<b>First Conference Call</b>	<p>Configure the conference call preferences.</p> <ul style="list-style-type: none"> <li>• Auto</li> <li>• Dial</li> <li>• Directory</li> <li>• History</li> <li>• Start Conference</li> </ul> <p><b>Default:</b> Auto.</p> <ul style="list-style-type: none"> <li>• If you have logged in to a Yealink YMS or a cloud account, the default value is <b>Start Conference</b>.</li> <li>• If you have not logged in to a Yealink YMS or a cloud account, the default value is <b>Dail</b>.</li> </ul>	Web user interface

## Setting the CTP20 Contact Display Label

The contact interface displays all contact groups by default, including all Cloud contacts/YMS contacts (if you log in to a YMS or Cloud accounts), local contacts, and LDAP contacts. If the contact is not commonly used, you can choose to hide the contact list. You can also set the default contact tab based on frequently used contacts so that when you select a contact, you can locate the corresponding contact list to find the desired contact quickly.

### Procedure

1. On your web user interface, go to **Directory > Setting > Directory**.
2. Configure and save the following settings:

Parameter	Description	Configuration Method
<b>Enterprise</b>	<p>Enables or disables to display the Cloud contacts/YMS list.</p> <p><b>Note:</b> It is enabled by default. It can be configured only when logging in to a YMS or Cloud account.</p>	Web user interface
<b>Device</b>	<p>Enables or disables to display the devices account list.</p> <p><b>Note:</b> It is enabled by default.</p>	Web user interface
<b>VMR</b>	<p>Enables or disables to display the VMR list.</p> <p><b>Note:</b> It is enabled by default. It can be configured only when logging in to a YMS or Cloud account.</p>	Web user interface

Parameter	Description	Configuration Method
<b>External</b>	Enables or disables to display the external contacts list. <b>Note:</b> It is enabled by default. It can be configured only when logging in to a YMS or Cloud account.	Web user interface
<b>Local</b>	Enables or disables to display the local contacts list. <b>Default:</b> Enabled.	Web user interface
<b>Conference Contacts</b>	Enables or disables to display the conference contacts list. <b>Default:</b> Enabled.	Web user interface
<b>LDAP</b>	Enables or disables to display the LDAP contacts list. <b>Note:</b> It is enabled by default. It can be configured only when LDAP contacts are configured.	Web user interface
<b>Tab Default</b>	Configure the list of contacts that is displayed by default when you enter the contact interface. <b>Note:</b> <ul style="list-style-type: none"> <li>If you have logged in to a YMS or a Cloud account, the default value is <b>Enterprise</b>.</li> <li>If you have not logged in to a YMS or a Cloud account, the default value is <b>Local</b>.</li> </ul>	Web user interface

## Configuring Additional Audio Call

If you enable this feature, when the number of video calls reaches the limit (except for 24-way video calls) in the call, additional 5 users can still place audio calls to join the call. Otherwise, additional 5 users cannot place audio calls to join the call.

### About this task

For example, for VC800 with a 16-way license, if you disable additional audio call, when you create a call, only 16 participants can place video calls to join your call, the 17th participant cannot join the call.

### Procedure

1. On your web user interface, go to **Setting > Call Features**.

2. Configure and save the following settings:

Parameter	Description	Configuration Method
<b>Additional Audio Call</b>	Enable or disable the additional audio call. <b>Default:</b> Off.	Web user interface

## Selecting the Multi-party Resources

If you are in a P2P call, you can invite a third party using its capacity (built-in MCU) or the server VMR to initiate a conference.

### About this task

The systems can select multi-party resources by the following:

Prerequisite	Multiparty Resources	Inviting the third party
VC500/VC200/ VP59 uses Cloud account or YMS account with priority to make a P2P call.	<b>Auto</b>	Upgrade to be a server VMR conference first, if so, use the Endpoint own capacity to initiate a conference call
VC880/VC800 system (without an imported multipoint license) uses Cloud account or YMS account to make a P2P call.		
VC880/VC800 system (with an imported multipoint license) uses any call type (Cloud/YMS/SIP/ H.323/IP) to make a P2P call.		Uses the capacity to initiate a conference call
PVT980/PVT950 system uses any call type (Cloud/YMS/SIP/ H.323/IP) to make a P2P call.		Uses the capacity to initiate a conference call
Any call type (Cloud/YMS/SIP/ H.323/IP) is used to make a P2P call	<b>Endpoint Built-in MCU</b>	Uses the capacity to initiate a conference call
Cloud account or YMS account is used to make a P2P call.	<b>Server VMR</b>	Uses the server VMR to initiate a conference call



**Note:** The system uses its capacity to initiate a conference call in following situations: one is dialing a group to initiate a conference call when the system is idle, the other is receiving a call when the system is during a P2P call.

### Procedure

1. On your web user interface, go to **Setting > Call Features**.



2. Configure and save the following settings:

Parameter	Description	Configuration Method
<b>Multiparty Resources</b>	Configure the multiparty resources that the system uses to initiate a conference call. <ul style="list-style-type: none"> <li>• <b>Auto</b>—the available multiparty resources are used automatically.</li> <li>• <b>Endpoint Built-in MCU</b></li> <li>• <b>Server VMR</b></li> </ul> <b>Default:</b> Auto.	Web user interface

## Configuring Call Match

The call match feature allows the dialing screen to display the search result of the contacts after you enter the search criteria. This feature is not applicable to VP59.

### Procedure

1. Do one of the following:
  - On your web user interface, go to **Setting > Call Features**.
  - For your VC880/VC800/VC500/VC200/PVT980/PVT950, go to **More > Setting > Call Feature**.
2. Configure and save the following settings:

Parameter	Description	Configuration Method
<b>Call Match</b>	Enable or disable the call match feature. <b>Default:</b> On.	Web user interface Endpoint

## Search Source List in Dialing

The search source list in dialing allows you to search entries from the source list when the system is in the dialing screen.

The source list includes History, Local Directory, Cloud Contacts, Enterprise Directory and LDAP. To make the system search a specific list, you need configure the list first.

This feature is not applicable to VP59.



### Note:

Cloud Contacts and Enterprise Directory appear in the search source list only when you log into the corresponding platform.

If you want to match the LDAP list, make sure LDAP is already configured, refer to [LDAP](#).





- [Configuring Search Source List in Dialing](#)

### Related tasks

[Configuring Call Match](#)

## Configuring Search Source List in Dialing

### Procedure

1. On your web user interface, go to **Directory > Setting > Search Source List In Dialing**.
2. Select the desired list from the **Disabled** column and click .
3. The selected search source list appears in the Enabled column.
4. Repeat step 2 to add more search source lists to the Enabled column.
5. To remove a list from the Enabled column, select the desired list and then click .
6. To adjust the search priority of the enabled search source lists, select the desired list, and click  or .
7. The list shown on the top has the highest priority.  
The system will search the list with higher priority preferentially.

## Configuring SIP IP Call by Proxy

If the account of far site is an URI address (for example, 8000@XX.com), you can use SIP IP address or SIP account to call the far site. By default, the SIP IP call by proxy feature is disabled. When dialing the URI of the far site, the system uses the SIP IP address to establish a connection. If the SIP IP call by proxy feature is enabled, the system uses the SIP account to establish a connection when dialing the URI of the far site.

### Procedure

1. On your web user interface, go to **Setting > Call Features**.
2. Configure and save the following settings:

Parameter	Description	Configuration Method
<b>SIP IP Call by Proxy</b>	Enable or disable the SIP IP call proxy. <b>Default:</b> Disabled.	Web user interface

## Configuring Ringback Timeout

The ringback timeout defines that if the remote party does not answer your call within the specific time, the call will be hung up automatically.

### Procedure

1. On your web user interface, go to **Setting > Call Features > Ringback Timeout(30-240)**.

2. Configure and save the following settings:

Parameter	Description	Configuration Method
<b>Ringback Timeout(30-240)</b>	<p>Configure the ringback time (seconds).</p> <p><b>Note:</b> the valid value is from 30 to 240 and the default value is 180.</p> <p>If it is set to 180, the call will be hung up automatically if the remote party does not answer the call within 180s.</p>	<p>Web user interface</p> <p>Endpoint</p> <p>CTP20</p>

## Configuring the Auto Refuse Timeout

The auto refuse timeout defines a specific period of time after which the system will stop ringing if the call is not answered.

### Procedure

1. On your web user interface, go to **Setting > Call Features**.
2. Configure and save the following settings:

Parameter	Description	Configuration Method
<b>Auto Refuse Timeout (30-240)</b>	<p>Configure the duration (seconds) that the ringing lasts.</p> <p><b>Note:</b> the value is from 30 to 240. <b>Default:</b> 120.</p> <p>If it is set to 120, the system will stop ringing if the call is not answered within 120s.</p>	<p>Web user interface</p>

## Auto Answer

You can allow the system to answer incoming calls automatically when the system is idle or during the call.

- [Answering a Call Automatically When not in a Call](#)
- [Answering Multiple Calls Automatically](#)

### Answering a Call Automatically When not in a Call

You can specify whether to answer a call automatically when the system is not in a call.

#### About this task




**Attention:** Auto answer feature may create security issues, for example, an unexpected caller can view your video conference room randomly.

**Procedure**

1. Do one of the following:

- On your web user interface, go to **Setting > Call Features**.
- On your VCS, go to **More > Setting > Call Features**.

On your VP59, tap .

- On your CP960, swipe down from the top of the screen to enter the control center.
- On your CTP20, tap  > **Setting > Basic > Call Features**.

2. Enable or disable **Auto Answer**.

3. Save the change.

**Related tasks**

[Muting Auto-Answered Calls](#)

**Answering Multiple Calls Automatically**

You can specify whether to answer a call automatically when the system is already in a call.

**Before you begin**


Make sure the auto answer is enabled.

**About this task**

**Attention:** Auto answer feature may create security issues, for example, an unexpected caller can view your video conference room randomly.

**Procedure**

1. Do one of the following:

- On your web user interface, go to **Setting > Call Features**.
- For your VC880/VC800/VC500/VC200/PVT980/PVT950, on your remote control user, go to **More > Setting > Call Feature**.
- On your CP960, swipe down from the top of the screen to enter the control center.
- On your CTP20, tap  > **Setting > Basic > Call Features**.

2. Enable or disable **Auto Answer Multiway**.

3. Save the change.


**Muting Auto-Answered Calls**

The Auto Answer Mute feature avoids the caller hearing the local conversation freely when an incoming call is answered automatically. Enable the local microphone to be muted when an incoming call is answered automatically.

**About this task**

Only the Auto Answer Mute feature is enabled can this feature be available.

**Procedure**

1. Do one of the following:
  - On your web user interface, go to **Setting > Call Features**.
  - For your VC880/VC800/VC500/VC200/PVT980/PVT950, select **More > Setting > Call Feature**.
  - On your CTP20, tap  > **Setting > Basic > Call Features**.
2. Enable or disable **Auto Answer Mute**.
3. Save the change.

**Related information**

[Auto Answer](#)

## Muting Auto-Dialed Calls

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The Auto Dialout Mute feature allows the system to turn off the microphone after the other party answers your call , so that the other party cannot hear you.

**About this task**

**Note:** The system is still muted after you hang up.

**Procedure**

1. On your web user interface, go to **Setting > Call Features**.
2. Enable or disable **Auto Dialout Mute**.
3. Save the change.

## DND (Do Not Disturb)



---

You can enable do not disturb feature to reject incoming calls automatically. All calls you reject will be logged to Missed Calls list.

- [Enabling DND when Not in a Call](#)
- [Enabling DND during an Active Call](#)

### Enabling DND when Not in a Call

**Procedure**

1. Do one of the following:
  - On your web user interface, go to **Setting > Call Features**.
  - On your VCS, go to **More > Setting > Call Features**.
  - On your VP59, tap  > **DND**.
  - On your CP960, swipe down from the top of the screen to enter the control center.
  - On your CTP20, tap .
2. Enable **DND**.
3. Save the change.


## Enabling DND during an Active Call


To prevent callers from interrupting the active call, you can enable DND during an active call. The DND feature will be disabled automatically after the call ends.


### Procedure

Do one of the following during a call:

- On your web user interface, go to **Home > DND**.
- On your VCS:

For VC880/VC800/VC500/VC200/PVT980/PVT950, on your remote control, press  or OK key to open **Talk Menu**, and then select **DND**.

On your VP59, tap  > **DND**.

- On your CP960, go to **More > DND**.
- On your CTP20, tap  > **DND**.

## Enabling Fast Audio Call for CP960 Conference Phone

If you enable this feature and users register SIP accounts or H.323 accounts in VCS system, you can view the interface of Audio Call on CP960 conference phone. You can tap Audio Call to place an audio call, and the call is placed via SIP account or H.323 account by default. This feature is not applicable to VP59.

### Procedure

1. On your web user interface, go to **Setting > Call Features**.
2. Enable **Fast Audio Call**.

## Dial Plan

Dial plan is a string of characters that governs the way how the endpoints process the inputs received from the keypads. You can use the regular expression to define the dial plan. Dial plan is only applicable to VP59.

The replace rule is an alternative string that replaces the numbers you entered. You need to know the following basic replace rule:

Regular expression	Discription
.	It can be used as a placeholder or multiple placeholders for any string. Example: "12." would match "123", "1234", "12345", "12abc", and so on.
x	It can be used as a placeholder for any character. Example: "12x" would match "121", "122", "123", "12a", and so on.
-	It can be used to match a range of characters within the brackets. Example: "[5-7]" would match the number "5", "6" or "7".
,	It can be used as a separator within the bracket. Example: "[2,5,8]" would match the number "2", "5" or "8".

Regular expression	Discription
[]	The square bracket "[]" can be used as a placeholder for a single character which matches any of a set of characters. Example: "91[5-7]1234" would match "9151234", "9161234", "9171234".
()	The parenthesis "(")" can be used to group together patterns, for instance, to logically combine two or more patterns. Example: "([1-9])([2-7])3" would match "923", "153", "673", and so on.
\$ number	The "\$ number" followed by the sequence number of a parenthesis means the characters placed in the parenthesis. The sequence number stands for the corresponding parenthesis. Example: A replace rule configuration, Prefix: "001(xxx)45(xx)", Replace: "9001\$145\$2". When you dial out "0012354599" on your phone, the phone will replace the number with "90012354599". "\$1" matches 3 digits in the first parenthesis, that is, "235". "\$2" means 2 digits in the second parenthesis, that is, "99".

- [Adding a Replace Rule](#)

## Adding a Replace Rule

### Procedure

1. On your web user interface, go to **Setting > Dial Plan**.
2. In the **Prefix** field, enter the the number you want to replace.
3. In the **Replace** field, enter the alternate string instead of what the user enters.
4. Click **Add**.

 **Note:** For example: Prefix: (xxxx) , Peplace: 9069\$1.

When you dial out 1234, the phone will replace the number with 90691234.

## Managing the Directory

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This chapter describes how to manage and configure directory settings. Your system provides local directory, Yealink cloud directory, Yealink enterprise directory and LDAP directory.

- [Local Directory](#)
- [Yealink Cloud Contacts](#)
- [Enterprise Directory](#)
- [LDAP](#)
- [Meeting Whitelist](#)
- [Meeting Blacklist](#)

### Local Directory

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You can add, edit, delete, search or simply dial a contact from the local directory.

- [Adding Local Contacts and Conference Contacts](#)
- [Importing a Local Contact List](#)
- [Exporting Local Contact List](#)
- [Editing Local Contacts](#)
- [Deleting Local Contacts](#)

## Adding Local Contacts and Conference Contacts

A conference contact consists of one or more local contacts. You can establish a conference quickly by calling the conference contact. Conference contact is not applicable to VC500/VC200/VP59.

- [Adding a Local Contact](#)
- [Adding Conference Contacts](#)

### Adding a Local Contact

You can add 500 local contacts to your system at most.


#### Procedure

1. Do one of the following:

- On your web user interface, go to **Directory > Local Directory > New Contact**.

If you import the multipoint license to the device, on your web user interface, click **Directory > Local Directory > New Contact > Local**.

- On your VCS, go to **Dial > Directory > Local > New Contact**.

On your VP59, tap **Dial > **.

2. Configure and save the following settings:

Parameter	Description	Configuration Method
<b>Name</b>	Configure the contact name.	Web user interface Endpoint CTP20
<b>Number</b>	Configure the contact number.	Web user interface Endpoint CTP20
<b>Add New Number</b>	You can add up to 3 numbers for the local contact.	Endpoint CTP20
<b>Bandwidth</b>	Select the desired bandwidth.  The default value is Auto, which means the system will select the appropriate bandwidth automatically.  <b>Note:</b> When you call a local contact, the call rate that applies (video call rate or bandwidth) is the rate with the lower value. For more information, refer to <a href="#">Specifying the Video Call Rate</a> .	Web user interface Endpoint CTP20



## Adding Conference Contacts

You can add 100 conference contacts at most.

### About this task



**Note:** Adding Conference contact is only applicable to VC880/VC800/PVT980/PVT950 system with a multipoint license. It is not applicable to VC500/VC200/VP59.

### Procedure

1. Do one of the following:
  - If you import the multipoint license to the device, on your web user interface, go to **Directory > Local Directory**.  
Select the checkboxes of desired local contacts, click **New Contact > Conf**.
  - On your VCS, go to **Dial > Directory**.  
Select **Conference Contacts** from the drop-down menu.  
Select **New Conference**.
2. Enter the conference name.
3. Save the change.



#### Note:

The number of local contacts that you can add to a conference contact depends on the imported multipoint license.

For example, if you import a 24-way license to your VC880/VC800, up to 24 local contacts can be added to a conference contact. For more information the MCU certificate, contact the system administrator.

### Related tasks

[Viewing Multipoint License Status](#)

## Importing a Local Contact List

You can upload a local contact list to your system to add multiple contacts at a time. The system supports the contact lists either in XML format or CSV format.

### Procedure

1. On your web user interface, go to **Directory > Local Directory**.
2. Click **Import**.
3. Click the import box, and upload the contact file from your computer.
4. Click **Import**.

5. If you import a CSV format contact list, configure and save the following settings:

Parameter	Description	Configuration Method
<b>The first line as the title</b>	It will prevent importing the title of the local contact information which is located in the first line of the CSV file. <ul style="list-style-type: none"> <li>• Check—do not import the first line of the CSV file.</li> <li>• Uncheck—import the first line of the CSV file.</li> </ul>	Web user interface
<b>Delete Old Contacts</b>	It will delete all existing local contacts while importing the contact list. <ul style="list-style-type: none"> <li>• Check—delete the old contacts.</li> <li>• Uncheck—do not delete the old contacts.</li> </ul>	Web user interface
<b>Ignore</b>	This column will not be imported to the system.	Web user interface
<b>Display name</b>	This column will be imported to the system as the local contact's name. <p><b>Note:</b> This column must be imported to the system, or you cannot import the local contact list.</p>	Web user interface
<b>Group</b>	This column will be imported to the system as the group.	Web user interface
<b>Number</b>	This column will be imported to the system as the local contact's number.	Web user interface
<b>Bandwidth</b>	This column will be imported to the system as the local contact's bandwidth.	Web user interface

## Exporting Local Contact List

You can export a local contact list in XML format from your system. Therefore, you can share it with other systems.

### Procedure

1. On your web user interface, go to **Directory > Local Directory**.
2. Click **Export > XML/CSV**.

## Editing Local Contacts

### Procedure

#### 1. Do one of the following:

- On your web user interface, go to **Directory > Local Directory**.

Hover your cursor over the desired local contact, and click .

- On your VCS, go to **Dial > Directory**.

Select the desired contact and then press the right key.

Select **Edit**.

On your VP59, go to **Dial > Local**.

Tap  beside the desired contact.

- On your CP960 conference phone, tap **Directory**.

Tap  beside the desired contact.

#### 2. Edit the contact information.

## Deleting Local Contacts

You can delete a contact, multiple contacts or all contacts from your local directory.

- [Deleting a Local Contact](#)
- [Deleting Multiple Local Contacts](#)
- [Deleting All Local Contacts](#)

### Deleting a Local Contact

#### Procedure

#### 1. Do one of the following:

- On your web user interface, go to **Directory > Local Directory**.

Hover your cursor over the desired local contact, and click .


- On your VCS, go to **Dial > Directory**.

Select the desired contact and then press the right navigation key to select **Delete**.

On your VP59, go to **Dial > Local**.

Tap  beside the contact, tap  in the top-right corner, and then tap **Delete Contact**.

- On your CP960, tap **Directory**.

Tap  after the desired contact, and then tap **Delete**.

The page prompts whether or not you are sure to delete. There is no prompts on CTP20 when you delete the contact, so the contact is deleted directly.

#### 2. Confirm the action.

## Deleting Multiple Local Contacts

### Procedure

1. On your web user interface, go to **Directory > Local Directory**.
2. Select the checkboxes of desired local contacts.
3. Click **Delete Contacts**, and select **Selected**.  
The page prompts whether or not you are sure to delete.
4. Confirm the action.

## Deleting All Local Contacts

### Procedure

1. On your web user interface, go to **Directory > Local Directory**.
2. Select **Delete Contacts > Delete All**.  
The page prompts whether or not you are sure to delete.
3. Confirm the action.

## Yealink Cloud Contacts

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Cloud directory appears only when you log into the Yealink VC Cloud Management Service. Contact your system administrator for more information. Cloud directory includes all Yealink cloud contacts which are created and managed by the enterprise administrator. Note that only the cloud enterprise administrator can add, edit and delete Yealink cloud contacts on the Yealink VC Cloud Management Service.

On your system, you can only search for and place calls to the Yealink cloud contacts.

There are four types of Yealink Cloud contacts:

- **Cloud:** the users who have Yealink Cloud accounts. The Yealink Cloud enterprise administrator can create departments for staffs.
- **Device:** the devices with Yealink Cloud accounts in the video meeting room.
- **Virtual Meeting Room:** it exists permanently. The enterprise administrator can determine whether to synchronize the VMR to your system or not.
- **External Contacts:** other users added by the Yealink Cloud enterprise administrator. Those devices do not have Cloud accounts.

### Related tasks

[Registering a Yealink Cloud Account](#)

## Enterprise Directory

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The enterprise directory appears only when you log into the Yealink Meeting Server. The enterprise directory includes all YMS contacts which are created and managed by your enterprise administrator. Note that only the enterprise administrator can add, edit and delete YMS contacts on the Yealink Meeting Server.

On your system, you can only search for and place calls to the YMS contacts.

There are four types of YMS contact:

- **Enterprise Directory:** the users that have YMS accounts. The enterprise administrator can create departments for users.
- **Device:** the devices registered with YMS accounts in the video meeting room.

- **External contacts:** other users added by the Yealink YMS enterprise administrator. Those devices do not have YMS accounts.
- **Virtual Meeting Room:** it exists permanently. The enterprise administrator can determine whether to synchronize the VMR to your system or not.

#### Related tasks

[Registering a YMS Account](#)

## LDAP

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LDAP is an application protocol for accessing and maintaining information services for the distributed directory over an IP network. You can configure the systems to interface with a corporate directory server that supports LDAP version 2 or 3. The following LDAP servers are supported:

- Microsoft Active Directory
- Sun ONE Directory Server
- Open LDAP Directory Server
- Microsoft Active Directory Application Mode (ADAM)

The biggest advantage of LDAP is that users can quickly find contacts from the LDAP server without having to maintain the phone book locally. The contact information returned by the LDAP server is read-only, and the user can call an LDAP contact, but cannot add, edit, or delete an LDAP contact. The administrator can configure the filtering conditions of the LDAP request on the devices, such as the number of displayed contacts, the returned information, and how to sort contacts.

#### The method about how the devices search for contacts on LDAP is described as below:

- Enter the content you want to search in the Dialing interface (ensure that the callee has enabled the LDAP in the matching list).
- In the Contact interface, select the “Colleague” group to go to the LDAP search interface and enter the desired content.

The device sends a search request to the LDAP server, and the LDAP server will search all contacts according to the input content and the filtering condition, and then return the matched result to the device.

- [LDAP Attributes](#)
- [Configuring LDAP](#)

## LDAP Attributes

The following table lists the most common attributes used to configure the LDAP lookup on systems.

Abbreviation	Name	Description
gn	givenName	First name
cn	commonName	LDAP attribute is made up from given name joined to surname.
sn	surname	Last name or family name
dn	distinguishedName	The unique identifier for each entry
dc	dc	The domain component
-	company	The company or the organization name
-	telephoneNumber	The office phone number

Abbreviation	Name	Description
mobile	mobilephoneNumber	The mobile or cellular phone number
ipPhone	IPphoneNumber	The home phone number

## Configuring LDAP

### Procedure

1. On your web user interface, go to **Directory > LDAP**.
2. Configure and save the following settings:

Parameter	Description	Configuration Method
<b>LDAP Enable</b>	Enable or disable the LDAP feature on the system. <b>Default:</b> Disabled.	Web user interface
<b>LDAP Name Filter</b>	Configure the name attribute for LDAP searching. <b>Example:</b> <code>((cn=%)(sn=%))</code>	Web user interface
<b>LDAP Number Filter</b>	Configure the number attribute for LDAP searching. <b>Example:</b> <code>((telephoneNumber=%)(mobile=%))</code>	Web user interface
<b>LDAP TLS Mode</b>	Configure the connection mode between the LDAP server and the system. <ul style="list-style-type: none"> <li>• <b>LDAP</b>—Unencrypted connection between LDAP server and the system (port 389 is used by default).</li> <li>• <b>LDAP TLS Start</b>- TLS/SSL connection between LDAP server and the system (port 389 is used by default).</li> <li>• <b>LDAPS</b>- TLS/SSL connection between LDAP server and the system (port 636 is used by default).</li> </ul> <b>Default:</b> LDAP	Web user interface
<b>LDAP Server Address</b>	Configure the domain name or the IP address of the LDAP server.	Web user interface
<b>Port</b>	Configure the LDAP server port. <b>Default:</b> 389.	Web user interface

Parameter	Description	Configuration Method
<b>LDAP User Name</b>	Configure the user name used to log into the LDAP server.  <b>Note:</b> The user name is provided by the LDAP server administrator. If the LDAP server allows 'anonymous' to login, you don't need to provide the user name to access the LDAP server.	Web user interface
<b>LDAP Password</b>	Configure the password to log into the LDAP server.  <b>Note:</b> The password is provided by the LDAP server administrator. If the LDAP server allows 'anonymous' to login, you don't need to provide the password to access the LDAP server.	Web user interface
<b>LDAP Base</b>	Configure the root path of the LDAP search base.  <b>Example:</b> cn=manager,dc=yealink,dc=cn	Web user interface
<b>Max.Hits</b>	Configure the maximum number of search results returned by the LDAP server.  <b>Valid Value:</b> 1 to 32000, default value: 50.	Web user interface
<b>LDAP Name Attributes</b>	Configure the name attributes of each record returned by the LDAP server.  <b>Note:</b> multiple name attributes should be separated by spaces.  <b>Example:</b> cn sn	Web user interface
<b>LDAP Number Attributes</b>	Configure the number attributes of each record returned by the LDAP server.  <b>Note:</b> multiple number attributes should be separated by spaces.  <b>Example:</b> telephoneNumber mobile	Web user interface

Parameter	Description	Configuration Method
<b>LDAP Display Name</b>	Configure the contact attributes displayed on the LCD screen. <b>Note:</b> multiple contact attributes should be separated by spaces. <b>Example:</b> %cn	Web user interface
<b>Protocol</b>	Specify the protocol for the LDAP server. <b>Note:</b> Make sure the protocol value corresponds with the version assigned on the LDAP server.	Web user interface
<b>Match Incoming Call</b>	Enable or disable the system to match caller numbers with LDAP contacts. If the match is successful, the system will display the caller name when receiving an incoming call. <b>Default:</b> Disabled.	Web user interface
<b>Configuring Call Match</b>	Enable or disable the system to match outgoing call numbers with LDAP contacts. If the match is successful, the system will display the contact name when placing a call. <b>Default:</b> Disabled.	Web user interface
<b>LDAP Sorting Results</b>	Enable or disable the system to sort the search results in alphabetical order or numerical order. <b>Default:</b> Disabled.	Web user interface

For more information about the string display method of the LDAP search filter, refer to <http://www.ietf.org/rfc/rfc2254>.

## Meeting Whitelist

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You can add meeting whitelist. The users in the whitelist can join your conference call directly without meeting password even if you have enabled the meeting password feature. Your system supports up to 100 whitelist records. This feature is not applicable to VP59.

- [Adding Meeting Whitelist](#)
- [Deleting the Meeting Whitelist](#)



## Adding Meeting Whitelist

The users in the whitelist can call you without the password.

### Procedure

1. On your web user interface, go to **Directory > Meeting Whitelist**.
2. Enter the desired number.  
The value can be the IP address, the account number, or the domain name.
3. Click **Add**.



### Note:

Users in the whitelist can join virtual meeting room 1 of conference moderator without a password. If conference moderator hosts a VMR mode conference, users in the whitelist still need password to join virtual meeting room 2.

## Deleting the Meeting Whitelist

### Procedure

1. On your web user interface, go to **Directory > Meeting Whitelist**.
2. Click **Delete** beside the desired whitelist.  
It prompts whether you are sure to delete the whitelist.
3. Confirm the action.

## Meeting Blacklist

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You can add meeting blacklist. Your system will refuse incoming calls from the blacklist automatically. Your system will not remind incoming calls or save call history from blacklist.

Your system supports up to 100 blacklist records.

- [Adding Meeting Blacklist](#)
- [Deleting the Meeting Blacklist](#)

## Adding Meeting Blacklist


Your system will refuse incoming calls from the blacklist automatically.

### Procedure

1. On your web user interface, go to **Directory > Meeting Blacklist**.
2. Enter the desired number.  
The value can be the IP address, the account number, or the domain name.
3. Click **Add**.

## Deleting the Meeting Blacklist

### Procedure

1. On your web user interface, go to **Directory > Meeting Blacklist**.
2. Click  beside the desired blacklist.  
It prompts whether you are sure to delete the blacklist.

3. Confirm the action.

## Managing the Call Log

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Call log consists of four lists: Missed Calls, Placed Calls, Received Calls, and Forwarded Calls. The system supports up to 100 entries. The call log contains call information such as remote party identification and time and date of the call.

- [Saving History Record](#)
- [Adding a History Record to the Local Directory](#)
- [Deleting History Records](#)
- [Placing Calls from Call History](#)

### Saving History Record

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You can configure the system to save the history records or not.

#### Procedure

1. Do one of the following:
  - On your web user interface, go to **Setting > Call Features**.
  - For your VC880/VC800/VC500/VC200/PVT980/PVT950, go to **More > Setting > Call Feature**.
2. Enable or Disable **History Record**.

### Adding a History Record to the Local Directory

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#### Procedure

1. Do one of the following:
  - On your VCS, go to **Dial > History**.  
Select the desired history record and then press the right navigation key to select **Add to Contact**.  
On your VP59, tap **Dial**.  
Select the type of history record, tap ⓘ beside the desired history record, and then tap **Delete**.
  - On your CP960, tap **History**.  
Tap ⓘ beside the desired history record, and then tap **Delete**.
2. Edit the corresponding information and save the information.

### Deleting History Records

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You can delete a single history record, multiple history records or all history records.

- [Deleting a History Record](#)
- [Deleting Multiple History Records](#)
- [Deleting All History Records](#)

## Deleting a History Record

### Procedure

1. Do one of the following:

- On your VCS, go to **Dial > History**.

Select the desired entry and then press the right navigation key to select **Delete**.

On your VP59, select the desired history record, tap ⓘ beside the desired entry, and tap 🗑️ in the top-right corner, and then tap **Delete**.

- On your CP960 conference phone, tap **History**.

Tap ⓘ after the desired history record, and then tap **Delete**.

The page prompts whether or not you are sure to delete. There is no prompts on CTP20 when you delete the entry, so the entry is deleted directly.

2. Confirm the action.

## Deleting Multiple History Records

### Procedure

1. On your web user interface, go to **Directory > History**.
2. Select the checkboxes of desired history records.
3. Click **Delete Contacts**, and select **Selected**.

## Deleting All History Records

### Procedure

Do one of the following:

- On your web user interface, go to **Directory > History**.

Go to **Delete Calllog > Delete All**.

- On your VCS, go to **Dial > History**.

Select the desired history record from the drop-down menu of **All Calls**.

Select **Delete**.

On your VP59, tap **Dial**.




Select the desired type of history record, tap **Clear** at the bottom, and tap **Clear All** from the pop-up box.

## Placing Calls from Call History

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### Procedure

Do one of the following:

- On your web user interface, go to **Directory > History**.  
Click  or  beside the desired entry to place a video or audio call.
- On your VCS, go to **Dial > History**.  
Select the desired history record and then press the right pan key to select **Video Call** or **Voice Call**.  
On your VP59, select the desired call type and tap the desired entry to call out.
- On your CP960 conference phone, tap **History**.  
Tap  beside the desired history record and then tap **Video Call** or **Voice Call**.
- On your CTP20, go to **Dial > History**.  
If you register a Yealink Cloud account/YMS account, tap **New Meeting > History**.  
Select the desired call type and desired entry, and then call out.

## Placing a Call

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You can use your system just like a regular phone to place calls in many ways.

- [Placing a Call by Entering a Number](#)
- [Placing a Call from the Search Result](#)
- [Editing Numbers Before Calling](#)

## Placing a Call by Entering a Number

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You can place a call by using the web user interface, the remote control or the CP960 conference phone.

### About this task



You can place a call to following account types:

- IP address (for example: 192.168.1.15)
- H. 323 account
- SIP account
- Cloud account
- PSTN account
- SIP URI (for example: 2210@sip.com)

### Procedure

Do one of the following:

- On your web user interface, go to **Home**.  
Enter the number in the **Enter Number** field.  
Select the desired call type and video call rate.  
Click **Video Call** or **Voice Call** to place a video or voice call.

- On your VCS, select **Dial**.  
Select the desired call type from the drop-down menu of **Call Type**.  
Enter the number and press the right navigation key to select  (video call) or  (voice call).  
On your VP59, enter the number, and then dial out.
- On your CP960 conference phone, tap **Dial**.  
Tap **Auto**, and select the desired call type from the drop-down menu.  
Enter the number.  
Tap **Send** to place a video call.
- On your CTP20, tap **Dial > Dial**.  
If you register a Yealink Cloud account/YMS account, tap **New Meeting > Dial**.  
Tap **Auto** and select the desired call type from the drop-down menu.  
Enter the number and then dial out.

**Related tasks**[Specifying the Video Call Rate](#)**Related information**[Account Polling](#)

## Placing a Call from the Search Result

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You can enter search criteria on the dialing screen to find your desired contact or number, and then place a call. Make sure search source list is configured and the call match feature is enabled. You can place a call from the search result by using the web user interface, the remote control or the CP960 conference phone.

**Procedure**

1. Do one of the following:
  - On your VCS, select **Dial**.
  - On your CP960 conference phone, tap **Dial**.
  - On your CTP20, go to **Dial > Dial**.  
If you register a Yealink Cloud account/YMS account, tap **New Meeting > Dial**.
2. Select the desired call type from the drop-down menu of **Call Type**.  
For VP59 and CTP20, tap **Auto** and select the desired call type from the drop-down menu.
3. Enter the search criteria.
4. Select the desired search result and dial.

**Related information**[Search Source List in Dialing](#)[Configuring Call Match](#)

## Editing Numbers Before Calling

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In the dialing screen or history screen, you can edit the contact numbers or history records and then dial out.

### Procedure

1. Do one of the following:

- On your VCS, go to **Dial** or go to **Dial > History**.

Select the desired entry and then press the right navigation key.

Select **Edit before calling**.

On your VP59, select ⓘ beside the desired call history.

Select **Edit before calling**.

- On your CP960 conference phone, tap **Dial** or tap **History**.

Tap ⓘ after the desired history record.

Tap **Edit before calling**.

2. Edit the number and dial out.

## Configuring the Security Features

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The following introduces how to configure the security features.

- [Collaboration Data Security Control](#)
- [Configuring the Auto Logout Time](#)
- [Transport Layer Security \(TLS\)](#)
- [System Integrated with Control Systems](#)

## Collaboration Data Security Control

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By default, the authentication is required for the WPP20 and CTP20 via wireless connection when receiving shared content or initiating receiving whiteboard. It can prevent other people from using WPP20 or CTP20 outside the conference room to obtain shared content or whiteboard annotations via wireless connection. Only one authentication is required during the call. Once the whiteboard collaboration ends, if the system is idle, the host will cache the authentication status of the connected CTP20 within a certain period of time. If timeout, the connected CTP20 needs to be re-authenticated. You can configure whether the accessory needs to confirm the collaborative data security control before joining the collaboration, and set the cache time of the checking state when not in a call. This feature is not applicable to VP59.

### About this task

Pay attention to the following two situations:

- The authentication is only needed once when receiving the shared content or initiating receiving whiteboard. That is, if the authentication is performed when the shared content is received, the whiteboard can be initiated in the authentication state within the configured time without re-authentication.

- When the same PC is replaced with a different WPP20 or the WPP20 is removed and reconnected or the PC is restarted, re-authentication is not required. When the same WPP20 is replaced with a different PC, authentication is required if the PC has not been authenticated.

### Procedure

1. On web user interface, go to **Setting > Video & Audio > Collaboration Data**.
2. Configure and save the following settings:

Parameter	Description	Configuration Method
<b>Accessories Join Collaboration Confirmation</b>	<p>Enable or disable the WPP20/CTP20 via wireless connection to be authenticated first when receiving collaboration data.</p> <p><b>Note:</b> the default value is On.</p> <p>If you change this parameter, the system will reboot to make the change take effect.</p>	Web user interface
<b>Verify Status Cache Time In Idle</b>	<p>Configure the cached authentication status time of the WPP20/CTP20 when not in a call.</p> <p><b>Note:</b> It is configurable only when the accessories join collaboration confirmation feature is enabled. <b>Note:</b> the valid value is from 1 to 15 and the default value is 5 minutes.</p> <p>If you change this parameter, the system will reboot to make the change take effect.</p>	Web user interface

## Configuring the Auto Logout Time

The system will log out of the web user interface automatically after being inactive for a period of time. You need to re-enter the login credentials to login. You can change the auto logo time.

### Procedure

1. On your web user interface, go to **Setting > General > General Information > ReLogOffTime(1-1000min)**.
2. Configure and save the following settings:

Parameter	Description	Configuration Method
<b>ReLogOffTime (1-1000min)</b>	<p>Specify the inactive time (minutes) before the system logs out of the web user interface automatically.</p> <p><b>Default:</b> 5 minutes.</p>	Web user interface

## Transport Layer Security (TLS)

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Transport Layer Protocol (TLS) is a commonly used protocol for ensuring communications privacy and managing the security of the message transmission. When secured by the TLS protocol, the device can transmit the data and communicate safely.

The TLS protocol includes two protocol groups: the TLS handshake protocol and the TLS record protocol. The TLS handshake protocol allows the server and the client to authenticate with each other before negotiating about the data, the encryption algorithms and the encrypted keys. The TLS Record Protocol completes the actual data transmission and ensures the data integrity and confidentiality. The TLS protocol uses an asymmetric encryption algorithm to exchange keys, a symmetric encryption algorithm to ensure data confidentiality, and the MAC algorithms to ensure data integrity.

- [Supported Cipher Suites](#)
- [TLS Transport Protocol](#)
- [Managing the Trusted Certificates List](#)
- [Managing the Server Certificates](#)
- [Secure Real-Time Transport Protocol \(SRTP\)](#)
- [H.235](#)
- [Defending against Attacks](#)

### Supported Cipher Suites

The system supports TLS version 1.0, 1.1 and 1.2. A cipher suite is a named combination of authentication, encryption, and message authentication code (MAC) algorithms used to negotiate the security settings for a network connection by using the TLS/SSL network protocol. The system supports the following cipher suites:

- DHE-RSA-AES256-SHA
- DHE-DSS-AES256-SHA
- AES256-SHA
- EDH-RSA-DES-CBC3-SHA
- EDH-DSS-DES-CBC3-SHA
- DES-CBC3-SHA
- DES-CBC3-MD5
- DHE-RSA-AES128-SHA
- DHE-DSS-AES128-SHA
- AES128-SHA
- RC2-CBC-MD5
- IDEA-CBC-SHA
- DHE-DSS-RC4-SHA
- RC4-SHA
- RC4-MD5
- RC4-64-MD5
- EXP1024-DHE-DSS-DES-CBC-SHA
- EXP1024-DES-CBC-SHA
- EDH-RSA-DES-CBC-SHA
- EDH-DSS-DES-CBC-SHA
- DES-CBC-SHA
- DES-CBC-MD5
- EXP1024-DHE-DSS-RC4-SHA
- EXP1024-RC4-SHA




- EXP1024-RC4-MD5
- EXP-EDH-RSA-DES-CBC-SHA
- EXP-EDH-DSS-DES-CBC-SHA
- EXP-DES-CBC-SHA
- EXP-RC2-CBC-MD5
- EXP-RC4-MD5

## TLS Transport Protocol

When using SIP account, SIP IP call, or logging in to Zoom, Pexip, BlueJeans, EasyMeet or a custom third-party platform, you can choose the TLS transport method for the SIP protocol to ensure the confidentiality of the communication and the security of the information transmission.

### Procedure

1. Do one of the following:

- On your web user interface, go to **Account > VC Platform > Video Conference Platform > Platform Type > Zoom/Pexip/BlueJeans/EasyMeet /Videxio/Custom.**
- On your web user interface, go to **Account > SIP Account/SIP IP Call.**
- On your VCS, **More > Setting > Advanced > SIP account/SIP IP Call**  
On your VP59, tap **Setting > Advanced > SIP account/SIP IP Call.**
- On your CTP20, tap  > **Setting > Advanced > Account > SIP Account/SIP IP Call.**

## 2. Configure and save the following settings:

Parameter	Description	Configuration Method
<b>Transport</b>	<p>Specify the transport protocol for SIP signaling.</p> <p>The supported protocols are as follows:</p> <ul style="list-style-type: none"> <li>• <b>UDP</b>—it provides the best transmission for SIP signaling.</li> <li>• <b>TCP</b>—it provides a reliable transmission for SIP signaling.</li> <li>• <b>TLS</b>—it provides a safe transmission for SIP signaling. TLS is available only when the device is registered on a SIP server that supports TLS.</li> <li>• <b>DNS-NAPTR</b>—the device performs the DNS NAPTR and SRV request to find the service type and the port if no server port is given.</li> </ul> <p><b>Note:</b></p> <ul style="list-style-type: none"> <li>• Yealink Cloud Platform and StarLeaf Cloud platform cannot be configured.</li> <li>• The default value of the SIP IP Call/Zoom/Pexip/BlueJeans/Videxio/Custom Cloud platform is TCP.</li> <li>• The default value of EasyMeet Cloud platform is TLS.</li> <li>• The default value of the SIP account is UDP.</li> <li>• If you use TLS, you need to upload the CA certificate to the server for the devices.</li> </ul>	<p>Web user interface</p> <p>Endpoint</p> <p>CTP20</p>

## Managing the Trusted Certificates List

When the system serves as a TLS client and requests a TLS connection with a server, the system should verify the server certificate sent by the server to decide whether it is trusted based on the trusted certificates list.

### About this task

The trusted certificates list contains the default and the custom certificates.

- **Default Certificates:** The system has 36 built-in trusted certificates.

- **Custom Certificates:** You can upload up to 10 trusted certificates with the size of no more than 5M to the system. The format of the CA certificates must be .pem, .cer, .crt and .der.

### Procedure

1. On your web user interface, go to **Security > Trusted Certs**.
2. Configure and save the following settings:

Parameter	Description	Configuration Method
<b>Only Accept Trusted Certificates</b>	<p>Enable or disable the system only trusting the server certificates in the trusted certificates list.</p> <p><b>Note:</b> the default value is On.</p> <p>If it is disabled, the system can connect to the server no matter whether the certificate send by the system is valid or not.</p> <p>If it is <b>enabled</b>, the system will authenticate the server certificate based on the trusted certificates list. Only when the authentication succeeds, will the system trust the server.</p> <p>If you change this parameter, the system will reboot to make the change take effect.</p>	Web user interface
<b>Common Name Validation</b>	<p>Enable or disable the system to mandatorily validate the CommonName or SubjectAltName of the server certificate sent by the server. This security verification rules are compliant with <a href="#">RFC 2818</a>.</p> <p><b>Note:</b> the default value is Off.</p> <p>If you change this parameter, the system will reboot to make the change take effect.</p>	Web user interface

Parameter	Description	Configuration Method
<b>CA Certificates</b>	<p>Specify the certificate type in the Trusted Certificates list for the system to authenticate for the TLS connection.</p> <ul style="list-style-type: none"> <li>• <b>Default Certificates</b>—the device authenticates whether the server is reliable via the built-in CA certificates.</li> <li>• <b>Custom Certificates</b>—the device authenticates whether the server is reliable via the uploaded CA certificates.</li> <li>• <b>All Certificates</b>—the device authenticates whether the server is reliable via both the built-in and the uploaded CA certificates.</li> </ul> <p><b>Note:</b> the default value is <b>Default Certificates</b>.</p> <p>If you change this parameter, the system will reboot to make the change take effect.</p>	Web user interface
<b>Upload Trusted Certificate File</b>	<p>Upload the custom CA certificate for the device.</p> <p><b>Note:</b> The format of the certificate must be in *.pem, *.der., *.crt, or *.cer. You can upload up to 10 CA certificates.</p>	Web user interface

- [Default Certificates List](#)

### Default Certificates List

The following introduces 36 most common used CA Certificates built in Yealink video conferencing system.

- VeriSign Class 3 Public Primary Certification Authority - G5
- GeoTrust Universal CA
- Equifax Secure eBusiness CA-1
- Thawte Server CA
- VeriSign Class 2 Public Primary Certification Authority - G3
- VeriSign Class 4 Public Primary Certification Authority - G3
- Thawte Premium Server CA
- thawte Primary Root CA - G2
- thawte Primary Root CA - G3
- GeoTrust Global CA 2
- GeoTrust Universal CA 2
- GeoTrust Primary Certification Authority
- GeoTrust Global CA
- Class 3 Public Primary Certification Authority
- -Thawte Personal Freemail CA

- thawte Primary Root CA
- -VeriSign Universal Root Certification Authority
- Equifax Secure Certificate Authority
- DigiCert High Assurance EV Root CA
- Equifax Secure Global eBusiness CA-1
- Yealink Equipment Issuing CA
- GeoTrust Primary Certification Authority - G2
- VeriSign Class 1 Public Primary Certification Authority - G3
- VeriSign Class 3 Public Primary Certification Authority - G3
- VeriSign Class 3 Public Primary Certification Authority - G4
- Deutsche Telekom Root CA 2
- Class 1 Public Primary Certification Authority
- Symantec Class 3 Secure Server CA - G4
- Symantec Class 3 Secure Server CA – G
- quickconnect.starleaf.com
- yealinkvc.com
- StarLeaf CA
- Class 1 Public Primary Certification Authority - G2
- Class 2 Public Primary Certification Authority - G2
- Class 3 Public Primary Certification Authority - G2
- Class 4 Public Primary Certification Authority - G2



#### Note:

The most common used CA Certificates are built in Yealink phones. Due to memory constraints, we cannot ensure a complete set of certificates. If there is no desired certificate in the above list, contact your distributor for the desired one. After that, you can upload the certificate into your phone. For more information on uploading custom CA certificate, refer to [Transport Layer Security \(TLS\)](#).

## Managing the Server Certificates

The system can serve as a TLS server. When clients request a TLS connection with the system, the system sends the server certificate (device certificate) to the clients for authentication.

### About this task

The server certificate contains the default and the custom certificates. You can customize the certificate type sent by the system to the client for authentication.

- **Default Certificates:** a unique server certificate and a generic server certificate.  
Only if no unique certificate exists, the system may send a generic certificate for authentication.
- **Custom Certificates:** You can only upload one server certificate to the system. The old server certificate will be overridden by the new one. The format of the server certificate files must be \*.pem or .cer, and the size should be less than 5M.

### Procedure

1. On your web user interface, go to **Security > Server Certs**.

## 2. Configure and save the following settings:

Parameter	Description	Configuration Method
<b>Device Certificates</b>	<p>Specify the type of the server certificates for the system to send for TLS authentication.</p> <ul style="list-style-type: none"> <li>• <b>Default Certificates</b></li> <li>• <b>Custom Certificates</b></li> </ul> <p><b>Note:</b> the default value is Default Certificates.</p> <p>If you change this parameter, the system will reboot to make the change take effect.</p>	Web user interface
<b>Upload Server Certificate File</b>	<p>Upload the server certificate.</p> <p><b>Note:</b> The certificate you want to upload must be in *.pem, *.crt, *.cer or *.der format. Only one server certificate can be uploaded to the system.</p>	Web user interface

## Secure Real-Time Transport Protocol (SRTP)

Secure Real-Time Transport Protocol (SRTP) encrypts the RTP during SIP calls to avoid interception and eavesdropping. The RTP and the RTP stream in a call are encrypted by AES algorithm which is compliant with RFC3711. The data in the RTP stream cannot be understood even though it is captured or intercepted. Only the receiver has the key to restore the data. To use SRTP, the parties participating in the call must enable SRTP feature simultaneously. When this feature is enabled on both sites, the encryption type used in the session is negotiated by the systems. This negotiation process is compliant with RFC 4568.

When you place a call that enables SRTP, the system sends an INVITE message with the RTP encryption algorithm to the destination system.

The rules of SRTP for media encryption in SIP calls are described as below:

Far Local	Compulsory	Optional	Disabled
<b>Compulsory</b>	SRTP Call	SRTP Call	Fail to establish a call
<b>Optional</b>	SRTP Call	SRTP Call	RTP Call
<b>Disabled</b>	Fail to establish a call	RTP Call	RTP Call

Example of the INVITE message carried with the RTP encryption algorithm in the SDP is described as below:

```

m=audio 11780 RTP/SAVP 0 8 18 9 101
a=crypto:1 AES_CM_128_HMAC_SHA1_80
inline:NzFINTUwZDk2OGVIOTc3YzNkYTkWZVVMtM1YWFj
a=crypto:2 AES_CM_128_HMAC_SHA1_32
inline:NzkyM2FjNzQ2ZDgxYjg0MzQwMGVmMGUxMzdmNWFm
a=crypto:3 F8_128_HMAC_SHA1_80 inline:NDliMWIzZGE1ZTAwZjA5ZGFhNjQ5YmEANTMzYzA0
a=rtpmap:0 PCMU/8000
a=rtpmap:8 PCMA/8000
a=rtpmap:18 G729/8000
a=fmtp:18 annexb=no
a=rtpmap:9 G722/8000
a=fmtp:9 0-15
a=rtpmap:101 telephone-event/8000
a=ptime:20
a=sendrecv

```

The callee receives the INVITE message with the RTP encryption algorithm, and then answers the call by replying the 200 OK message which carries the negotiated RTP encryption algorithm.

Example of the 200 message carried with the RTP encryption algorithm in the SDP is described as below:

```

m=audio 11780 RTP/SAVP 0 101
a=rtpmap:0 PCMU/8000
a=rtpmap:101 telephone-event/8000
a=crypto:1 AES_CM_128_HMAC_SHA1_80
inline:NGY4OGViMDYzZjQzYTNIOTNkOWRiYzRIMjM0Yzcz
a=sendrecv
a=ptime:20
a=fmtp:101 0-15

```



**Note:**

If you enable SRTP and you can also enable TLS, which can ensure the security of SRTP encryption. For more information about TLS, refer to [TLS Transport Protocol](#).

- [Configuring SRTP](#)

**Configuring SRTP**

You can set SRTP for the SIP protocol when using a SIP account, SIP IP call, or logging in to Zoom, Pexip, BlueJeans, EasyMeet, or a custom third-party platform.


**Procedure**

1. Do one of the following:

- On your web user interface, go to **Account > VC Platform > Video Conference Platform > Platform Type > Zoom/Pexip/BlueJeans/EasyMeet/Custom**.
- On your web user interface, go to **Account > SIP Account/SIP IP Call**.

2. Configure and save the following settings:

Parameter	Description	Configuration Method
<b>SRTP</b>	<p>Specify the SRTP type.</p> <p>The supported types are as follows:</p> <ul style="list-style-type: none"> <li>• <b>Disabled</b>—the encrypted calls are not supported.</li> <li>• <b>Optional</b>—both encrypted and unencrypted calls are supported. Secure calls are supported only if the far end supports encryption.</li> <li>• <b>Compulsory</b>—unencrypted calls are not supported.</li> </ul> <p><b>Default:</b> Disabled.</p>	Web user interface

When SRTP is enabled on both sites, RTP streams will be encrypted, and a lock icon  appears on the monitor of each system after successful negotiation.

## H.235

H.235 system provides the identity authentication, the data encryption, and the integration. H.235 encrypts the RTP during H.323 calls to avoid interception and eavesdropping.

The H.235 is supported by the systems. The parties participating in the call must enable H.235 feature simultaneously. When this feature is enabled on both sites, the encryption type used in the session is negotiated between the systems. The StarLeaf platform also supports H.235 encryption. After logging in to the StarLeaf platform, you can use H.235 encryption.

Rules of H.235 security in H.323 calls are described as below:

Remote\Local	Compulsory	Optional	Disabled
<b>Compulsory</b>	H.235 Call	H.235 Call	Fail to establish a call
<b>Optional</b>	H.235 Call	H.235 Call	RTP Call
<b>Disabled</b>	Fail to establish a call	RTP Call	RTP Call

- [Configuring H.235 Encryption](#)

### Configuring H.235 Encryption

When you log in to the StarLeaf platform or use an H.323 account, you can configure the H.235 encryption feature for the H.323 protocol.


### Procedure

1. On your web user interface, go to **Account > VC Platform > Platform Type > StarLeaf** or **Account > H.323**.



2. Configure and save the following settings:

Parameter	Description	Configuration Method
H.235	<p>Configure the H.235 encryption.</p> <p>The supported types are as follows:</p> <ul style="list-style-type: none"> <li>• <b>Disabled</b>—the encrypted calls are not supported.</li> <li>• <b>Optional</b>—both the encrypted and the unencrypted calls are supported. The secure calls are supported only if the far end supports encryption.</li> <li>• <b>Compulsory</b>—unencrypted calls are not supported.</li> </ul> <p><b>Default:</b> Disabled.</p>	Web user interface

When H.235 is enabled on both sites, RTP streams will be encrypted, and a lock icon  appears on the monitor of each system after successful negotiation.

## Defending against Attacks

VCS sometimes may receive calls from unknown caller, and the calls may be unable to answer. For the communication security, VCS supports the features of defending against attacks. You can configure the abnormal call answering feature to handle the abnormal SIP incoming call or configure the safe mode call feature to verify the H.323 incoming call.

- [Configuring Abnormal Call Answering](#)
- [Configuring the Safe Mode Call](#)

### Configuring Abnormal Call Answering

When the destination address of the incoming SIP call does not match the local address, the call is considered to be an abnormal call. You can deal with them by setting them as the abnormal SIP incoming call. You can reject the abnormal SIP incoming call, or answer it by using IP address or SIP account randomly. This feature is not applicable to VP59.

### Procedure

1. On your web user interface, go to **Setting > Call Features**.

## 2. Configure and save the following settings:

Parameter	Description	Configuration Method
<b>Abnormal Call Answering</b>	<p>Specify the account type for answering abnormal SIP incoming calls.</p> <p>The supported types are as follows:</p> <ul style="list-style-type: none"> <li>• <b>Disabled</b>—reject the abnormal SIP incoming calls.</li> <li>• <b>Account Answer</b>—use the registered SIP account to answer the abnormal SIP incoming calls.</li> <li>• <b>IP Call Answer</b>—use IP address to answer the abnormal SIP incoming calls.</li> </ul> <p><b>Default:</b> IP Call Answer.</p>	Web user interface

**Configuring the Safe Mode Call**

The safe mode call feature is used to verify whether the incoming H.323 call is coming from an H.323 endpoint.

**Procedure**

1. On your web user interface, go to **Setting > Call Features**.
2. Configure and save the following settings:

Parameter	Description	Configuration Method
<b>Safe Mode Call</b>	<p>Enable or disable the safe mode call feature.</p> <p>The supported types are as follows:</p> <ul style="list-style-type: none"> <li>• <b>Off</b>—answer incoming H.323 calls directly without validation.</li> <li>• <b>On</b>—verify whether the incoming H.323 call is coming from an H.323 endpoint. If it is, the system will answer it. If not, the incoming call will be rejected.</li> </ul> <p><b>Default:</b> Disabled.</p>	Web user interface

**System Integrated with Control Systems**

Yealink video conferencing system provides API for third-party control system to integrate with. Therefore, third-party control system can control Yealink video conferencing system via API. This feature is not applicable to VP59.

- [Connection Methods of Control Systems](#)
- [Connection Settings for Control Systems](#)

## Connection Methods of Control Systems

You can connect Yealink video conferencing system to the control system via LAN connection or Serial connection. Select one of the following:

- **LAN Connection:** Make sure the Yealink video conferencing system and the control system are in the same network segment. If you use this mode to control the system, TCP protocol is recommended. To establish a connection, the control system needs to know the IP address and TCP port of the Yealink video conferencing system.
- **Serial Connection:** The USB port on the Yealink video conferencing system can be connected to the serial port on the control system through a USB to RS-232 cable.

For more information, refer to [Yealink VC Deployment and User Manual for Control Systems](#) and [API Commands Introduction for Yealink Video Conferencing System](#).

## Connection Settings for Control Systems

You need to finish following settings before you connect the video conferencing system to the control system.

### Procedure

1. On your web user interface, go to **Security > Security Control**.
2. Configure and save the following settings:

Parameter	Description	Configuration Method
<b>Current Control TCP Port</b>	Control TCP port (read-only). <b>Default:</b> 6024.	Web user interface
<b>Control Security Enabled</b>	Enable or disable an authentication password when the control system tries to connect to the video conferencing system. <b>Default:</b> On. If you change this parameter, the system will reboot to make the change take effect.	Web user interface

Parameter	Description	Configuration Method
<b>Control Security Password</b>	<p>Enable or disable an authentication password when the control system tries to connect to the video conferencing system.</p> <p><b>Default:</b> blank.</p> <p><b>Note:</b> this parameter is only available for <b>Control Security Enabled</b>. If you change this parameter, the system will reboot to make the change take effect.</p>	Web user interface
<b>Baud Rate</b>	<p>Configure the baud rate.</p> <ul style="list-style-type: none"> <li>• <b>2400</b></li> <li>• <b>4800</b></li> <li>• <b>9600</b></li> <li>• <b>19200</b></li> <li>• <b>38400</b></li> <li>• <b>115200</b></li> </ul> <p><b>Default:</b> 115200</p> <p><b>Note:</b> The baud rate must be same between the control system and Yealink video conferencing system.</p>	Web user interface
<b>Data Bits</b>	<p>Configure the data bits.</p> <ul style="list-style-type: none"> <li>• <b>7</b></li> <li>• <b>8</b></li> </ul> <p><b>Default:</b> 8</p> <p><b>Note:</b> The data bits must be same between the control system and Yealink video conferencing system.</p>	Web user interface
<b>Parity</b>	<p>Configure the parity.</p> <ul style="list-style-type: none"> <li>• <b>None</b></li> <li>• <b>Odd</b></li> <li>• <b>Even</b></li> <li>• <b>Space</b></li> </ul> <p><b>Default:</b> Space</p> <p><b>Note:</b> The parity must be same between the control system and Yealink video conferencing system.</p>	Web user interface

Parameter	Description	Configuration Method
<b>Stop Bits</b>	Configure the stop bits. <ul style="list-style-type: none"> <li>• 1</li> <li>• 2</li> </ul> <b>Default:</b> 1 <b>Note:</b> The stop bits must be same between the control system and Yealink video conferencing system.	Web user interface

## CEC Monitor Controls

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Consumer Electronics Control (CEC) is a feature of HDMI designed to allow users to command and control devices connected through HDMI by using only one remote control. The users can use a remote control to control all the devices connected by HDMI.

The CEC feature is enabled by default on VC880/VC800/VC500/PVT980/PVT950 video conferencing system. Ensure that all monitors connected to the system supports and enables the CEC feature. This feature is not applicable to VC200/VP59.

**The following CEC features are available:**

- **One Touch Play**-Use the system remote control to wake up the monitors. All connected CEC-capable monitors are powered on, and their displays are switched to VCS input.
- **System Standby**-When the VCS enters sleep mode, all connected CEC-capable monitors are switched to standby mode for power saving.



**Note:**

The VCS does not respond to CEC commands issued by a television remote control.

- [Configuring CEC Monitor Controls](#)

## Configuring CEC Monitor Controls

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### Procedure

1. On your web user interface, go to **Setting > General > General Information**.
2. Configure and save the following settings:

Parameter	Description	Configuration Method
<b>CEC Enable</b>	Enable or disable the CEC feature. <b>Default:</b> On.	Web user interface

## Accessories with Your System

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This section describes how to use the accessories. For more information on other accessories, refer to related guide. VCC22 video conferencing cameras, CPW90-BT Bluetooth wireless microphones and VCM34 are not applicable to VP59.

- [Using WPP20 Wireless Presentation Pod](#)
- [Using the CPN10 PSTN Box](#)
- [Using the VCC22 Video Conferencing Cameras](#)
- [Using the CPW90-BT Bluetooth Wireless Microphones with VCS](#)
- [Using CTP20](#)
- [Using VCM34](#)
- [Using the Soundbar/MSpeaker II](#)

### Using WPP20 Wireless Presentation Pod

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The video conferencing system can be paired with a maximum of 5 WPP20 wireless presentation pod, but only 4 WPP20s can be used to share content at the same time for VC880/VC800/VC500/PVT980/PVT950, and only 1 WPP20 can be used to share content at the same time for VC200/VP59.

For more information about how to pair and quickly use WPP20 wireless presentation pod, please refer to [Yealink WPP20 Wireless Presentation Pod Quick Start Guide](#).



**Note:** We do not recommend using WPP20 through walls, otherwise signal energy may be consumed.

### Using the CPN10 PSTN Box

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It is a cost-effective solution for PSTN office. Up to 2 cascaded PSTN Boxes can be installed to video conferencing systems, which allow you to experience the conference conveniently in excellent speech quality with PSTN. For more information, refer to [Yealink PSTN Box CPN10 Quick Start Guide](#). Up to two PSTN accounts can be registered on the system, with one-way audio call for one account. You can call PSTN users, receive the call from PSTN users, or create a conference with the PSTN user.

### Using the VCC22 Video Conferencing Cameras

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You can connect up to 9 VCC22 video conferencing cameras to the VC880/PVT980 video conferencing system. For VC800 video conferencing system, you can connect up to 8 VCC22 video conferencing cameras. For more information, refer to [Yealink VCC22 Camera Quick Start Guide](#). VCC22 video conferencing cameras are not applicable to VC500/VC200/PVT950/VP59.

- [Controlling VCC22 Camera](#)
- [Configuring Multi-Camera Default Layout](#)
- [Adjusting the Multi-camera Layout During a Call](#)

## Controlling VCC22 Camera

When the system is idle, you can choose the desired camera to capture video images, and adjust the camera angle and focal length.

### Procedure

- Do one of the following:
  - On your web user interface, go to **Home > Camera Layout**.
  - On your remote control, press the right navigation key twice to go to the cameras list.
  - On your CP960 conference phone, tap **Camera > The current control camera**.
  - On your CTP20, tap .
- Select the desired camera and then adjust the angle and the focus.

## Configuring Multi-Camera Default Layout

During a call, if you connect VCC22, all the local video streams are synthesized to one video stream, and sent to the far site. You can configure the default layout when you connect multiple cameras.

### Procedure



- On your web user interface, go to **Setting > Camera > Camera > Multi-camera Default Layout**.
- Select the desired VCC22.
- Configure and save the following settings:

Parameter	Description	Configuration Method
<b>Multi-camera Default Layout/ Camera Layout</b>	Configure the camera layout during a video call. <ul style="list-style-type: none"> <li><b>1+N</b>: the selected camera is given prominence in the largest pane, and other cameras are displayed in small panes.</li> <li><b>Selected Speaker</b>: the selected camera is displayed in the full screen.</li> <li><b>Equal N×N</b>: every camera is displayed in equal panes.</li> </ul> <b>Default:</b> 1+N.	Web user interface Endpoint CP960 Conference Phone CTP20

## Adjusting the Multi-camera Layout During a Call

During a call, all video streams captured from the connected cameras are synthesized to one video stream, and then sent to the far site. You can change the camera layout during a call.

### Procedure

- Do one of the following when the system is during a call:
  - On your web user interface, go to **Home > Camera Layout**.
  - On your remote control, press  or OK key to open **Talk Menu**, and select **Layout Adjustment > Camera Layout**.
  - On your CP960 conference phone, tap **More > Camera Layout**.
  - On your CTP20, tap  > **Multi-camera Layout Switching**.
- Configure and save the following settings:

Parameter	Description	Configuration Method
<b>Camera Layout</b>	Configure the camera layout during a video call. <ul style="list-style-type: none"> <li><b>1+N</b>: the selected camera is given prominence in the largest pane, and other cameras are displayed in small panes.</li> <li><b>Selected Speaker</b>: the selected camera is displayed in the full screen.</li> <li><b>Equal N×N</b>: every camera is given equal prominence in equal-sized panes.</li> </ul> <b>Default:</b> 1+N.	Web user interface Endpoint CP960 Conference Phone CTP20

- If you select **1+N** or **Selected Speaker** as the camera layout, you should choose a camera you want to focus on.

## Using the CPW90-BT Bluetooth Wireless Microphones with VCS

CPW90-BT Bluetooth wireless microphones can work as the audio input devices of your video conferencing system. You can connect up to 2 CPW90-BT Bluetooth wireless microphones to the video conferencing system. For more information, refer to [CPW90-BT Bluetooth Wireless Microphones Quick Start Guide](#).

CPW90-BT Bluetooth Wireless Microphones is not applicable to VP59.

- [Registering CPW90-BT with VCS](#)
- [Deregistering CPW90-BT from VCS](#)
- [Viewing the Information of Bluetooth Wireless Microphones](#)
- [Finding the Registered CPW90-BT](#)


### Registering CPW90-BT with VCS

If you purchase video conferencing system and Bluetooth wireless microphones together, they are already paired. Just turn the Bluetooth wireless microphones on to use them. If the model of your video conferencing system is VC500/VC800/VC880/PVT980/PVT950, make sure a BT42 Bluetooth USB Dongle




is connected before you use the Bluetooth wireless microphones. If you purchase Bluetooth wireless microphones separately, you need to pair them with video conferencing system manually.

### Procedure


1. Do one of the following:
  - On your web user interface, go to **Setting > Wireless Microphone > Search Mic.**
  - On your VCS, go to **More > Setting > Video & Audio > Wireless Microphone > Add Wireless Microphone.**
  - On your CTP20, tap  > **Setting > Basic > Audio > Wireless Microphone > Add Wireless Microphone.**
2. Place the Bluetooth wireless microphones on the charger and long press the mute button for 5 seconds until the mute LED indicator fast flashes yellow.

The Bluetooth wireless microphones are paired with the video conferencing system.

 **Note:** Up to 2 Bluetooth wireless microphones can be connected to one video conferencing system.

## Deregistering CPW90-BT from VCS

### Procedure

1. Do one of the following:
  - On your web user interface, go to **Setting > Wireless Microphone > Deregistration.**
  - On your VCS, go to **More > Setting > Video & Audio > Wireless Microphone.**  
Select a wireless microphone and then select **Unbind.**
  - On your CTP20, tap  > **Setting > Basic > Audio > Wireless Microphone.**  
Select a wireless microphone and then select **Unbind.**

It prompts whether or not you are sure to unbind.
2. Select **OK.**


## Viewing the Information of Bluetooth Wireless Microphones

### Procedure

1. Do one of the following:
  - On your web user interface, go to **Setting > Wireless Microphone.**
  - On your VCS, go to **More > Setting > Video & Audio > Wireless Microphone,** and select the desired wireless microphone.
  - On your CTP20, go to **Setting > Audio > Wireless Microphone,** and select the desired wireless microphone.
2. Select a desired microphone to view the information.

## Finding the Registered CPW90-BT

### Procedure

1. Do one of the following:
  - On your web user interface, go to **Setting > Wireless Microphone**.
  - On your VCS, go to **More > Setting > Video & Audio > Wireless Microphone**.
  - On your CTP20, tap  > **Setting > Basic > Audio > Wireless Microphone**.
2. Select a wireless microphone and then select **Find**.

The mute indicator LED on the CPW90-BT flashes red and green alternately.

## Using CTP20

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The CTP20 supports wired and wireless connections. The PVT980/PVT950/VC880/VC800/VC500 can connect up to 4 CTP20s and the VC200 supports only one CTP20. VP59 cannot be used with a CTP20.

- [Wired Connection to CTP20](#)
- [Wireless Connection to CTP20](#)
- [Using Multiple CTP20s for Collaboration](#)
- [Importing a Whiteboard during a Call](#)
- [Saving or Sharing Whiteboard Source Files](#)

### Wired Connection to CTP20

After connected to the VC Hub/Phone port via the network cable, CTP20 will be connected to the VCS automatically. For more information, refer to [Yealink\\_CTP20\\_Quick\\_Start\\_Guide](#).

### Wireless Connection to CTP20

If the VC Hub/Phone port of the VCS codec is used, you can connect the CTP20 to the PoE switch for power supply, also to the wireless access point provided by the VCS codec.

#### Before you begin

Make sure the Wireless AP is enabled and the codec is connected to WF50.

#### About this task

If the codec connects to the wireless network and the Wireless AP is disabled, the CTP20 cannot use the wireless connection.

### Procedure

1. Enable **Wi-Fi**.
2. Select the Wi-Fi supplied by the VCS codec.
3. Enter the password and tap **OK**.  
After connecting to the wireless network, you can use the CTP20 to work with VCS codec.

#### Related tasks

[Enabling the Wireless Access Point](#)

[Configuring Wireless Access Point](#)

## Using Multiple CTP20s for Collaboration

In a meeting room, you can use multiple CTP20s for whiteboard collaboration or presentation. Up to 4 CTP20s can be connected to the PVT980/PVT950/VC880/VC800/VC500 codec simultaneously and only 1 CTP20 can be connected to the VC200 codec.

The collaboration methods are as below:

- **Status Synchronizing:** The status of the VCS codec can be synchronized to all connected CTP20s.
- **Configuration Synchronizing:** in idle state, you can configure the VCS codec via each CTP20, and the new configuration will cover the old configuration and take effect immediately.
- **Whiteboard Collaboration:** you can use each CTP20 to initiate the whiteboard collaboration which can be received by other CTP20s simultaneously, but the editing and annotation on each CTP20 are independent. If you close the whiteboard of one CTP20 connected to a VCS codec, the whiteboards of other connected CTP20s are closed simultaneously.
- **Presentation Collaboration:** if you enable the feature of auto-presentation on devices, after you start presentation on the local computer/Apple devices, the presentation will be synchronized to all the CTP20s, but the editing and annotation on each CTP20 are independent. If you do not enable the feature of auto-presentation on devices, you can initiate the presentation on any CTP20 and the presentation will be synchronized to all the CTP20s, but the editing and noting on each CTP20 are independent. If you close the presentation on one CTP20 connected to a VCS codec, the presentation on other connected CTP20s are closed simultaneously.



**Note:** If multiple CTP20s are wired to the VCS codec, you need a multi-port switch.

## Importing a Whiteboard during a Call

If you have made notes on the whiteboard locally before the call, you can choose to import the whiteboard to continue the discussion after the call.

### Procedure

In the note toolbar, tap > **Import whiteboard before talking**.

## Saving or Sharing Whiteboard Source Files

After registering the YMS account, you can save the whiteboard source file, to prevent the whiteboard from being erased due to issue switching or to save the uncompleted whiteboard data on the cloud disk. When you need to use this whiteboard, you can use the WPP20 to import it. You can also directly share the whiteboard to the relevant person via email or the QR code.

### About this task

When you are in a YMS conference, no matter which participant saves the whiteboard, the image will be saved in the conference organizer's cloud disk.

For more information on how to use or download the saved whiteboard files, please contact your administrator.

### Procedure

1. In the note toolbar, tap > **Save/Share**.

2. Do one of the following:

- Tap **Save to cloud disk** to save the whiteboard to the YMS server.
- Tap **Send E-mail**, enter the email address and then tap **Send** to share whiteboard via email.

Multiple email addresses are separated by commas (half-width, full-width) or semicolons (half-width, full-width).

- Tap **Clink to get qrcode**.

Other person can access the whiteboard image by scanning the QR code and entering the provided access password within a limited period of time.

#### Related tasks

[Importing the Whiteboard Source File via WPP20](#)

## Using VCM34

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To further improve the sound quality, you can connect a VCM34 to the VCS codec. If you need to expand the pickup range, you can connect multiple VCM34s in cascade (up to 4 VCM34s). VP59 cannot be used with a VCM34. For more information, refer to [Yealink VCM34 Quick Start Guide](#).

## Using the Soundbar/MSpeaker II

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The Soundbar can be used as the audio output device. It can be used directly after connected to the system. VP59 cannot be used with a Soundbar/MSpeaker II. For more information about how to use the Soundbar, refer to [Yealink Soundbar Quick Start Guide](#)/[Yealink MSpeaker II Quick Start Guide](#).

# System Maintenance

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The following topics describe system maintenance, such as how to set up a system profile, perform a factory restore, and upgrade the system firmware.

- [Exporting or Importing Configuration Files](#)
- [Rebooting the System](#)
- [Resetting the SD Card of VC200/VP59](#)
- [Resetting the System](#)
- [Exporting Log Files](#)
- [Capturing Packets](#)
- [System Firmware](#)
- [Viewing Multipoint License Status](#)
- [Viewing the Device Type](#)

## Exporting or Importing Configuration Files

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You can export the configuration files to check the current configuration of the system and to troubleshoot if necessary. You can also import configuration files for a quick and easy configuration. The format of the imported configuration file must be “\*.bin”.

- [Exporting BIN Files from the System](#)
- [Importing BIN Files to the System](#)

## Exporting BIN Files from the System

### Procedure

1. On your web user interface, go to **Setting > Configurations > Configuration > Export Configuration**.
2. Click **Export**.

## Importing BIN Files to the System


### Procedure

1. On your web user interface, go to **Setting > Configuration > Configuration > Import Configuration**.
2. Click **Browse** and select a BIN configuration file from your computer.
3. Click **Import** to import the configuration file.

## Rebooting the System

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### Procedure

1. Do one of the following:
  - On your web user interface, go to **Setting > Upgrade > Reboot**.
  - On your VCS, go to **More > Setting > Advanced > Reboot & Reset > Reboot**.  
On your VP59, **Setting > Advanced > Reboot & Reset > Reboot**.
  - On your CTP20, tap  > **Setting > Advanced > System > Reboot & Reset > Reboot**.


It prompts whether you are sure reboot.
2. Confirm the action.

## Resetting the SD Card of VC200/VP59

---

You can reset SD card (local storage) of VC200/VP59 to clear all captured screenshots and recorded videos.

### Procedure

1. Do one of the following:
  - On your web user interface, go to **Setting > Upgrade > Reset Built-in SD Card**.
  - For VC200, go to **More > Setting > Advanced > Reboot & Reset > Reset Built-in SD Card**.  
On your VP59, **Setting > Advanced > Reboot & Reset > Reset Built-in SD Card**.
  - On your CTP20, tap  > **Setting > Advanced > System > Reboot & Reset > Reset Built-in SD Card**.

The page prompt whether or not you are sure to reset.

2. Confirm the action.

## Resetting the System


Generally, some common issues may occur while using the system. You can reset your system and camera to factory after you have tried all troubleshooting suggestions.

- [Resetting the System via Configuration Methods](#)
- [Resetting the System by using Reset Button](#)
- [Resetting VP59 by REDIAL key](#)

### Resetting the System via Configuration Methods

#### Procedure

1. Do one of the following:

- On your web user interface, go to **Setting > Upgrade > Reset to Factory Setting**.
- On your VCS, go to **More > Setting > Advanced > Reboot & Reset > Reset**.  
On your VP59, **Setting > Advanced > Reboot & Reset > Reset**.
- On your CTP20, go to  > **Setting > Advanced > System > Reboot & Reset > Reset**.

It prompts whether or not you are sure to reset.

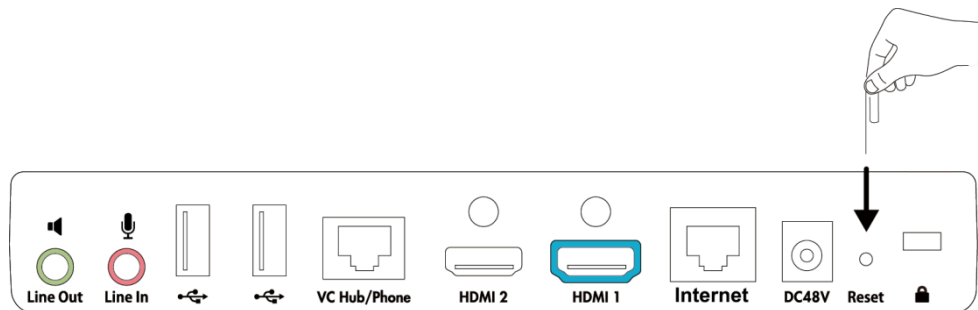
2. Confirm the action.

### Resetting the System by using Reset Button

You can use the Reset button to reset the system. There is no Reset Key on VP59.

#### Procedure

On your video conferencing system or the VCC22 video conferencing camera, using a tiny object (for example, the paper clip) to press and hold the reset button for 15 seconds until the monitor turns black.



#### Attention:

Do not power off the system when resetting to the factory settings.

### Resetting VP59 by REDIAL key

You can use the REDIAL key to reset VP59 to factory.

#### Procedure

1. On the Home page, long press the REDIAL key.  
It prompts whether or not you are sure to reset.
2. Confirm the action.

## Exporting Log Files

Log files are essential when troubleshooting the phone issues. Log files contain information about phone activities and the phone configuration profiles. You can also export the log to the local PC or to a specific syslog server.

- [Setting the Severity Level of the Local log](#)
- [Setting Severity Level of the Module log](#)
- [Exporting the Log Files to a Local PC](#)
- [Exporting the Log Files to a USB Flash Drive](#)
- [Exporting the Log Files to a Syslog Server](#)

### Setting the Severity Level of the Local log

#### Procedure

1. On your web user interface, go to **Setting > Configuration > Local Log**.
2. Configure and save the following settings:

Parameter	Description	Configuration Method
<b>Local Log</b>	Specify the local log level. <b>0</b> -system is unusable <b>1</b> -action must be taken immediately <b>2</b> -critical condition <b>3</b> -error conditions <b>4</b> -warning conditions <b>5</b> -normal but significant condition <b>6</b> -informational <b>Note:</b> the default value is 6. The smaller the number is, the higher the priority is. Higher value indicates more detailed content.	Web user interface
<b>Max Log File Size</b>	Limit the maximum size (kb) of local log files. <b>Default:</b> 20480.	Web user interface

### Setting Severity Level of the Module log

You can configure severity level of each module of the system.

#### Procedure

1. On your web user interface, go to **Setting > Configuration > Module Log**.

2. Configure and save the following settings:

Parameter	Description	Configuration Method
<b>Module Log Level</b>	<p>Specify the module log level.</p> <ul style="list-style-type: none"> <li>• All—all modules</li> <li>• Driver</li> <li>• System</li> <li>• Service</li> <li>• Connectivity</li> <li>• Video &amp; Audio</li> <li>• Protocol</li> <li>• Deploy</li> <li>• Web</li> <li>• App</li> <li>• Talk</li> </ul> <p>The available levels are as below:</p> <ul style="list-style-type: none"> <li>• 0</li> <li>• 1</li> <li>• 2</li> <li>• 3</li> <li>• 4</li> <li>• 5</li> <li>• 6</li> </ul> <p><b>Default:</b> all, 6. If you set the log level for a specified module and then set the log level for all modules, the log level of a specified module will be overwritten by the log level of all modules.</p>	Web user interface

## Exporting the Log Files to a Local PC

You can export local log to your computer.

### Procedure

1. On your web user interface, go to **Setting > Configuration > Local Log**.
2. In the **Enable Local Log** field, select **On**.
3. Reproduce the issue.
4. In the **Export Local Log** field, click **Export**.



#### Note:

The severity level of the exported Module Log will not be greater than the local Log Level. For example: If you set Local Log Level to 3 and set Talk log Level to 6, the exported Talk log Level will still be 3. If you set Local Log Level to 5 and set Talk log Level to 4, the exported Talk log Level will be 4.



## Exporting the Log Files to a USB Flash Drive

You can export local log to the connected USB flash drive.

### Procedure

1. On your web user interface, go to **Setting > Configuration > Local Log**.
2. In the **Enable Local Log** field, select **On**.
3. In the **USB Auto Exporting Syslog** field, select **On**.
4. Click **Confirm**.

A folder named yealink.debug appears in your USB flash drive, which includes the log files.



### Note:

The severity level of the exported Module Log will not be greater than the local Log Level. For example: If you set Local Log Level to 3 and set Talk log Level to 6, the exported Talk log Level will still be 3. If you set Local Log Level to 5 and set Talk log Level to 4, the exported Talk log Level will be 4.

## Exporting the Log Files to a Syslog Server

You can also configure the phone to send syslog messages to a syslog server in real time.

### Procedure

1. On your web user interface, go to **Setting > Configuration > Syslog**.
2. Configure and save the following settings:

Parameter	Description	Configuration Method
<b>Enable Syslog</b>	Select <b>On</b> to enable the system to upload log messages to the syslog server. <b>Default:</b> On.	Web user interface
<b>Syslog Server</b>	Configure the IP address or the domain name of the syslog server.	Web user interface
<b>Port</b>	Configure the port of the syslog server.	Web user interface
<b>Syslog Transport Type</b>	Configure the transport protocol that the device uses when exporting log messages to the syslog server. <ul style="list-style-type: none"> <li>• UDP</li> <li>• TCP</li> <li>• TLS</li> </ul> <b>Default:</b> UDP.	Web user interface

Parameter	Description	Configuration Method
<b>Syslog Level</b>	Specify the level of syslog information that displayed in the syslog.  <b>0</b> -system is unusable <b>1</b> -action must be taken immediately <b>2</b> -critical condition <b>3</b> -error conditions <b>4</b> -warning conditions <b>5</b> -normal but significant condition <b>6</b> -informational <b>Note:</b> the default value is 6. Higher value indicates more detailed content.	Web user interface
<b>Syslog Facility</b>	Configure the facility that generates the log messages.  <b>Default:</b> Local Use 0.	Web user interface
<b>Syslog Prepend Mac</b>	Enable or disable syslog prepend Mac.  <b>Default:</b> Off.	Web user interface



#### Note:

The severity level of the exported Module Log will not be greater than the Syslog Level. For example, if you set Syslog Level as 3 and set Talk log Level as 6, the exported Talk log Level will still be 3. If you set Local Log Level as 5 and set Talk log Level as 4, the exported Talk log Level will be 4.

## Capturing Packets

You can capture packets in three ways: capturing the packets via web user interface, by the remote control or using the Ethernet software. You can analyze the packet captured for troubleshooting.

- [Capturing the Packets via Web User Interface](#)
- [Capturing the Packets via Remote Control](#)
- [Capturing the Packets via Ethernet Software](#)

### Capturing the Packets via Web User Interface

You can capture the packets via the web user interface. You can also download the captured packets to your computer. The video conferencing system supports the following two modes for capturing packets:

- **Enhanced:** directly exporting the packets file to local PC while capturing.
- **Normal:** manually exporting the packets file to local PC after stopping capturing.
- [Capturing the Packets in Enhanced Way](#)

- [Capturing the Packets in Normal Way](#)

### Capturing the Packets in Enhanced Way

You can capture more packets in enhanced way than in normal mode.

#### Procedure

1. On your web user interface, go to **Setting > Configuration**.
2. Select **Enhanced** from the **Pcap Type** drop-down menu.
3. In the **Pcap Feature** field, click **Start** to start capturing enhanced packets.
4. Reproduce the issue.
5. Click **Stop** to stop capturing.

### Capturing the Packets in Normal Way

#### Procedure

1. On your web user interface, go to **Setting > Configuration**.
2. Select **Normal** from the **Pcap Type** drop-down menu.
3. Configure and save the following settings:

Parameter	Description	Configuration Method
<b>Packet Capture Device</b>	Configure the port where you want to capture packets: <ul style="list-style-type: none"> <li>• <b>WAN</b>—capture packets of the wired network.</li> <li>• <b>Ext0</b>—capture packets of the CP960 conference phone</li> <li>• <b>Wlan0</b>—capture packets of the wireless network.</li> </ul> <b>Default:</b> WAN.	Web user interface
<b>Packet Capture Count</b>	Configure the count of the number of packets to capture. <b>Default:</b> 5.	Web user interface
<b>Packet Capture Clip KB</b>	Configure the number of bytes (in kb) of the packet to capture. <b>Default:</b> 1024.	Web user interface

Parameter	Description	Configuration Method
<b>Pcap Filter Type</b>	<p>Configure the filter type of the packet to capture.</p> <p>The supported types are as follows:</p> <ul style="list-style-type: none"> <li>• <b>Custom</b>—Customize the packet filter string.</li> <li>• <b>SIP or H245 or H225</b>—Capture SIP, H245 and H225 packets.</li> <li>• <b>RTP</b>—Capture RTP packets</li> </ul> <p><b>Default:</b> Custom.</p>	Web user interface
<b>Packet Filter String</b>	<p>Customizes the packet filter string.</p> <p>For more information, refer to <a href="#">Capturing Packet Filter String</a>.</p> <p><b>Note:</b> the default value is blank. It works only when you set the Pcap Filter Type to Custom.</p>	Web user interface

4. Click **Confirm**.
  5. In the **Pcap Feature** field, click **Start** to start capturing enhanced packets.
  6. Reproduce the issue.
  7. Click **Stop** to stop capturing.
  8. Click **Export** to open the file download window, and then save the file to your local system.
- [Capturing Packet Filter String](#)

### Capturing Packet Filter String

You can customize the packet filter string to capture the desired packets.

#### Syntax:

Protocol+Direction+Host(s)+ Value +Logical Operations+Other Expression

The following table introduces the syntax.

Syntax	Description
<b>Protocol</b>	<p>Values: ether, fddi, ip, arp, rarp, decnet, lat, sca, moprc, mopdl, tcp and udp</p> <p>If no protocol is specified, all the protocols are used. Note that the application-level protocols, such as http, dns and sip are not supported.</p>
<b>Direction</b>	<p>Values: src, dst, src and dst, src or dst</p> <p>If no source or destination is specified, the "src or dst" keywords are applied. For example: "host 10.2.2.2" is equivalent to "src or dst host 10.2.2.2".</p>

Syntax	Description
<b>Host(s)</b>	Values: net, port, host, portrange If no host(s) is specified, the "host" keyword is used. For example: "src 10.1.1.1" is equivalent to "src host 10.1.1.1".
<b>Logical Operations</b>	Values: not, and, or. Negation ("not") has the highest priority. Alternation ("or") and concatenation ("and") have equal priority and associate from left to right. For example, "not tcp port 3128 and tcp port 23" is equivalent to "(not tcp port 3128) and tcp port 23". "not tcp port 3128 and tcp port 23" is NOT equivalent to "not (tcp port 3128 and tcp port 23)".

**Example:** (src host 10.4.1.12 or src net 10.6.0.0/16) and tcp dst port range 200-10000 and dst net 10.0.0.0/8

Packets with source IP address 10.4.1.12 or source network 10.6.0.0/16, the result is then concatenated with packets having destination TCP port range from 200 to 10000 and destination IP network 10.0.0.0/8.


## Capturing the Packets via Remote Control

You can capture packets via your remote control, and store the packets to the USB flash drive. This feature is not applicable to VP59.


### Before you begin

If you want to save packets to the USB flash drive, make sure a USB flash drive is connected, and the USB feature is enabled.

### Procedure

1. On the idle screen or during a call, long press .

The monitor prompts "Onekey-capture has been turned on, press the Backspace key for 2s to turn off it".

2. Long press  for 2 seconds to stop capturing packets.

The packets are saved in the yealink.debug folder on your USB flash drive.

### Related tasks


[Configuring USB Storage](#)

## Capturing the Packets via Ethernet Software

Connect the Internet ports of your system and your computer to the same HUB, and then use Ethernet software to capture the signal traffic.

## System Firmware

The new features may be added to the newly released firmware. Therefore, Yealink recommends you to update your devices to the latest firmware.

-  **Note:** Note that the firmware versions of all released devices need to match each other. If you upgrade the VCS endpoint running V40 or older versions (for example, X.32.0.40, X.32.10.40, or X.32.0.35) to x.43.0.30 or later, you cannot upgrade it to x.43.0.30 or a later versions until you upgrade it to any version between X.40.0.1 to X.43.0.20 first.

The following table lists the latest firmware name for each system model.

Device model	Firmware
VP59 video conferencing system	91.332.0.20.rom
VC200 video conferencing system	80.43.0.30.rom
VC880 video conferencing system	63.43.0.30.rom
VC800 video conferencing system	
VC500 video conferencing system	
VCC22 Video Conferencing Camera	
PVT980 video conferencing system	
PVT950 video conferencing system	1345.43.0.30.rom
CP960 Conference Phone	73.343.0.20.rom
WPP20 Wireless Presentation Pod	81.43.0.15.rom
CTP20 Touch Panel	85.43.0.20.rom
MSpeaker II	98.43.0.1.rom


You can download the latest firmware online: <http://support.yealink.com/documentFront/forwardToDocumentFrontDisplayPage>.

- [Upgrading the Firmware](#)

## Upgrading the Firmware


You can upgrade firmware for the system and accessories at the same time. Accessories that have not uploaded firmware will not be upgraded.

### About this task

-  **Note:** Do not close and refresh the browser when the system is upgrading firmware via web user interface. Do not unplug the network cables and power cables when the system is upgrading firmware.


### Procedure

1. On your web user interface, go to **Setting > Upgrade**.
2. Click the white box beside the desired firmware.
3. Upgrading the firmware.

-  **Note:** If you connect multiple CTP20s to the VCS codec, all the firmware of CTP20s will be updated simultaneously.

## Viewing Multipoint License Status

### Procedure

- Do one of the following:
  - On your web user interface, go to **Security > License**.
  - On your VCS, go to **More > Status > License**.
  - On your CP960 conference phone, go to **Settings > License**.
  - On your CTP20, tap  > **Setting > System Status > Host System > Device**.
- The multipoint licenses status is described as below:

Parameter	Description	Configuration Method
<b>Multipoint Status</b>	Indicates whether or not a multipoint license has been imported to the system. <ul style="list-style-type: none"> <li>Active</li> <li>Inactive (without a multipoint license or the imported multipoint license has expired)</li> </ul>	Web user interface Endpoint CP960 Conference Phone CTP20
<b>Multipoint Ways</b>	Indicates that the multipoint license is imported to the system. <ul style="list-style-type: none"> <li>Unsupported</li> <li>8 points</li> <li>16 points</li> <li>24 points</li> </ul>	Web user interface Endpoint CP960 Conference Phone CTP20
<b>Period of validity/Period</b>	Indicates the validity period of the imported multipoint license. <ul style="list-style-type: none"> <li>Unsupported</li> <li>X~Y Available</li> <li>Eternal</li> </ul>	Web user interface Endpoint CP960 Conference Phone CTP20



### Note:

Upgrading the system or performing a factory reset will not affect the imported multipoint license.

If you import a trial multipoint license to the system and the license has not expired, and then you import a permanent multipoint license to the system, the trial multipoint license will be overwritten. On the contrary, the permanent multipoint license will not be overwritten by the trial multipoint license.


If you import a new permanent multipoint license to the system, the previous permanent multipoint license will be overwritten.

## Viewing the Device Type

You can view the device type, whether it is a demo machine or a normal machine. For VP59, there are no different device types.

### Procedure

Do one of the following:

- On your web user interface, go to **Security > License**.
- On your VCS, go to **More > Status > License**.
- On your CP960 conference phone, go to **Settings > License**.
- On your CTP20, tap  > **Setting > System Status > Host System > Device**.

Parameter	Description	Configuration Method
<b>Device Type</b>	Indicate the device type. <ul style="list-style-type: none"> <li>• Demo Machine</li> <li>• Normal Machine</li> </ul>	Web user interface Endpoint CP960 Conference Phone CTP20

## Troubleshooting

When your system is unable to operate properly, you need to troubleshoot issues.

Make sure that the system is not physically damaged when experiencing a problem, and the cables are loose and the connections are correct or not. All these are common issues.

- [General Issues](#)
- [Call Issues](#)
- [Audio Issues](#)
- [Video Issues](#)
- [Placing a Test Call](#)
- [System Diagnostics](#)
- [System Status](#)
- [Viewing Call Statistics](#)

### General Issues

Symptom	Reason	Solution
Your system does not respond to the remote control.	The remote control battery is dead.	Replace batteries.
	The remote control battery is installed incorrectly.	Installed batteries correctly.
	Aim the remote control at the wrong direction.	Aim the remote control at the sensor when you perform a task.



Symptom	Reason	Solution
	You may control the far-site camera during a call.	Ensure that you are controlling the near-site camera.
	There are some objects obstructing the sensor in front of the camera.	Ensure that no objects are obstructing the sensor in front of the camera.
	The remote control is broken.	Replace remote control.
You forget the administrator password for the system	You cannot access the advanced settings.	Reset your system.
Time and date are wrong	The system fails to obtain the time and date from the SNTP server automatically.	Contact your network administrator.
		Manually configure the time and date.
You cannot adjust the camera angle and the focus	The local image is not selected.	Select local image using your remote control before adjusting camera.
	The system is in the interface of menu.	Adjust the camera when the system is idle or during a call.
	The remote control is not working.	Check the remote control.
How to prevent monitor burn-in?	Ensure that static images are not displayed for long periods. Be aware that meetings that last more than an hour without much movement can have the same effect as a static image.	Configure the automatic sleep time or the screen saver.
	Unsuitable monitor parameters.	Consider decreasing the monitor's sharpness, brightness, and contrast settings if they are set to their maximum values.

## Call Issues

Situation	Reason	Solution
You cannot receive calls.	The network is unavailable.	Connect the network administrator.
	Your system cannot receive calls when the far site dials your account.	Check whether your account is registered.
	DND (Do Not Disturb) mode is enabled.	Disable DND.
You fail to call far site.	The far site enables DND (Do Not Disturb) mode.	Contact the far site to disable DND.

Situation	Reason	Solution
	The account is not registered	Check whether the call parties register the accounts.
	Fail to dial the IP address of the far site.	At least one call protocol(SIP/H.323) is enabled.
		Ping the IP address of the far site. If it fails, contact the network administrator.
	The far site system is powered off.	Contact the far site to power on the system.
	The call protocol(SIP/H.323) that far site uses is different from yours.	Both sites use the same call protocol (SIP/H.323).
	Encryption negotiation (SRTP/H.235) fails.	If one site uses encryption, ensure that the other site enables the encryption too.
	The firewall blocks the traffics.	Open necessary ports on the firewall.
	The password of the built-in MCU Virtual Meeting Room is enabled.	Disable the password of the built-in MCU Virtual Meeting Room.
	<p>Your monitor prompts: Call Fail Busy Here.</p> <ul style="list-style-type: none"> <li>• Far site rejects your SIP call.</li> <li>• Far site does not answer your SIP call.</li> <li>• Far site has reached the maximum sessions when you place a SIP call.</li> </ul>	Contact the far site.
	<p>Your monitor prompts: Call Fail Remote endpoint refused call.</p> <p>Far site rejects your H.323 call</p> <ul style="list-style-type: none"> <li>• Far site rejects your H.323 call.</li> <li>• Far site does not answer your H.323 call.</li> <li>• Far site has reached the maximum sessions when you place an H.323 call.</li> </ul>	Contact the far site.
	Your monitor prompts: Network disconnected	Check the network connection.
Your monitor prompts: Maximum number of sessions reached.	The maximum sessions depends on the multipoint license imported to the system.	

## Audio Issues

Symptom	Reason	Solution
You cannot hear the audio during a call.	The volume is set to 0.	Adjust the volume.
	The far site mutes the microphone.	Contact the far site to check whether the microphone is unmuted.
You cannot hear the audio clearly during a call.	The speaker volume is too low.	Adjust the volume.
	The muffled audio reception from the far site may be caused by highly reverberant rooms.	Contact the far site to speak close to the phone.
	You choose a low-bandwidth audio codec.	Adjust the priority order of your audio codec.
	Noise devices, such as computers or fans.	Enable noise suppression.
	Dust and debris may cause the audio quality.	Do not use any kind of liquid or aerosol cleaner on the phone. A soft, slightly damp cloth should be sufficient to clean the top surface of the phone if necessary.
Far site cannot hear your audio during a call.	No audio input device.	Audio input device is connected correctly.
	The speaker of the far site is obscured or damaged.	Ensure that speaker is not obscured or damaged. Do not stack items on top of the CP960 conference phone.
	Your microphone is muted	Unmute the microphone.
	The volume of the far site is set to 0.	Contact the far site to adjust the volume.
You may experience poor voice quality during a call, such as intermittent voice, echo or other noise.	The users sit too far from or near to the microphone.	Adjust the distance.
	The audio pickup device is moved frequently.	Put the audio pickup device in the fixed location.
	Network congestion.	Connect the network administrator.
	Cable gets old.	Replace the old cables with the new cables, and then check whether the new cables provide better connectivity.
You cannot hear the ring tone when receiving a call.	The volume is set to 0.	Adjust the volume.

## Video Issues

Symptom	Reason	Solution
No picture on the monitor.	The system is in sleep mode.	Press any key on the remote control to wake up the system.
	The system is powered off.	The system is powered on.
	The HDMI cable is not connected to the system.	Make sure that the monitor is connected correctly according to the Quick Start Guide.
The video quality is poor.	Unsuitable monitor resolution.	Adjust the monitor resolution.
	The packet is lost.	View the call statistics to check whether the packet is lost and contact the network administrator.
	Unsuitable camera parameters.	Adjust the camera parameters, such as the brightness and the white balance.
	High-intensity indoor light or direct sunlight to the camera.	Avoid those situations.
You cannot share content.	PC is not connected.	Connect a PC to your system.
	The PC is turned off.	Turn on the PC.
	The VCH50 video conferencing hub or WPP20 wireless presentation pod is broken.	Replace it.
	The WPP20 wireless presentation pod cannot connect to the video conferencing system.	<ul style="list-style-type: none"> <li>Connect the WPP20 to the video conferencing system to obtain Wi-Fi profile.</li> <li>Make sure the wireless AP feature of video conferencing system is enabled.</li> </ul>

Symptom	Reason	Solution
The far site displays black screen when you share contents.	The reason may be that the remote device is placed in the private LAN and its negotiated media address in the signaling is different from its actual public IP address. If you share contents in this situation, the contents will be sent to the negotiated media address other than the actual public IP address. This may lead to failure.	<p>You can configure network address adapter to let the content send to the actual public IP address.</p> <p>Procedure:</p> <ul style="list-style-type: none"> <li>• On your web user interface, go to <b>Setting-&gt;Call Features</b>.</li> <li>• Select the desired value from the drop-down menu of <b>Network Address Adapter</b>: <ul style="list-style-type: none"> <li>• <b>Disabled</b>- send contents to the negotiated media address.</li> <li>• <b>IP Adapter</b>-send contents to the actual public IP address.</li> <li>• <b>Port Adapter</b>- send contents to the actual public port.</li> <li>• <b>IP &amp; Port Adapter</b>- send contents to the actual public IP address and port.</li> </ul> </li> </ul>

## Placing a Test Call

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When you finish installing and deploying the video conferencing system, you can call the Yealink Demo site (117.28.251.50 or 117.28.234.45) to test your system. If you fail to establish a call with Yealink Demo site, contact your network administrator to check whether or not the intranet works.

## System Diagnostics

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You can diagnose the audio, camera and network.

- [Diagnosing the Audio](#)
- [Diagnosing the Camera](#)
- [Diagnosing the Network](#)

## Diagnosing the Audio

You can check whether the speaker connected to your system can pick up voice and play audio normally.







### Procedure

- Do one of the following:
  - On your VCS:
    - On your VC880/VC800/VC500/PVT980/PVT950, go to **More > Setting > Diagnose > Audio Diagnose**.
    - On your VC200, go to **More > Diagnose > Audio Diagnose**.
    - On your VP59, tap **Setting > Diagnose > Audio Diagnose**.
  - On your CTP20, tap  > **Setting > Diagnose > Audio Diagnose > Start**.
- Speak to the microphone.
- Check whether or not the microphone can pick up the sound properly.
- If the microphone can pick up the sound properly and play it, the audio can work.
- Stop diagnosing.

## Diagnosing the Camera

You can check whether the camera can pan and change the focus normally. This feature is not applicable to VP59.

### Procedure

- Do one of the following:
  - On your VCS, go to **More > Setting > Diagnose > Camera Diagnose**.  
For VC200: on your remote control, go to **More > Camera Diagnose**.
  - On your CTP20, tap  > **Setting > Diagnose > Camera Diagnose**.
- Tap the navigation keys to adjust the camera angle.
- Select  or  or  or  to zoom out or zoom in.
- If the camera can move and zoom normally, it means that the camera is working well.
- On your remote control, press  to stop diagnosing.

## Diagnosing the Network


The wrong network settings may result in inaccessibility of your system and poor network performance. You can use the ping or trace route to troubleshoot network connectivity problems.

- [Checking the Network Using “Ping” Method](#)
- [Checking the Network Using “Trace Route” Method](#)

### Checking the Network Using “Ping” Method

The Ping method can help you check whether the system can be connected to the IP address of the remote device.


#### Procedure

1. Do one of the following:
  - On your web user interface, go to **Network > Diagnose**, and select **Ping** from the drop-down menu of **Command**.
  - On your VCS:
    - On your VC880/VC800/VC500/PVT980/PVT950, go to **More > Setting > Diagnose > Ping**.
    - On your VC200, go to **More > Diagnose > Trace Route**.
    - On your VP59, tap **Setting > Diagnose > Ping**.
  - On your CTP20, tap  > **Setting > Diagnose > Ping**.
2. Select **Start**.
3. Optional: You can also ping other IP addresses.
4. Select **Stop**.

### Checking the Network Using “Trace Route” Method

You can use the trace route method to diagnose the network. If the test is successful, the system lists the hops between the system and the IP address you entered. You can check whether the congestion happens by viewing the time cost among the hops.

#### Procedure

1. Do one of the following:
  - On your web user interface, go to **Network > Diagnose**, and select **Trace Route** from the drop-down menu of **Command**.
  - On your VCS:
    - On your VC880/VC800/VC500/PVT980/PVT950, go to **More > Setting > Diagnose > Trace Route**.
    - On your VC200, go to **More > Diagnose > Trace Route**.
    - On your VP59, tap **Setting > Diagnose > Trace Route**.
  - On your CTP20, tap  > **Setting > Diagnose > Trace Route**.
2. Select **Start**.
3. Optional: You can also track other IP addresses.
4. Select **Stop**.

## System Status

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You might need to provide system information, such as network settings and firmware for technical support.

- [System Status List](#)
- [Viewing System Status](#)

### System Status List

The available status is listed below:


Parameter	Description	Method
<b>System</b>	<ul style="list-style-type: none"> <li>• Model</li> <li>• Firmware version</li> <li>• Hardware version</li> <li>• Product ID</li> </ul>	Web user interface Endpoint CP960 Conference Phone
	<ul style="list-style-type: none"> <li>• Uptime</li> </ul>	Web user interface
<b>Collaboration Touch Panel</b> (it is not applicable to VP59)	<ul style="list-style-type: none"> <li>• Model</li> <li>• Firmware version</li> <li>• Hardware version</li> </ul>	Web user interface Endpoint CTP20 Touch Panel
<b>VCP960 Status</b> (it is not applicable to VP59)	<ul style="list-style-type: none"> <li>• Status</li> </ul>	Endpoint (Remote Control)
	<ul style="list-style-type: none"> <li>• System model</li> <li>• Firmware version</li> <li>• Hardware version</li> <li>• Device model</li> <li>• IP address</li> <li>• MAC address</li> </ul>	Web user interface Endpoint (Remote Control) CTP20
WPP20 Status (WPP20 is connected to the codec)	<ul style="list-style-type: none"> <li>• Firmware version</li> </ul>	Web user interface
<b>Network</b>	<ul style="list-style-type: none"> <li>• Network type</li> <li>• Internet Port/IP Mode</li> </ul>	Web user interface Endpoint CTP20 Touch Panel
<b>IPv4</b>	<ul style="list-style-type: none"> <li>• Internet port type</li> <li>• IP address</li> <li>• Subnet mask</li> <li>• Gateway</li> <li>• DNS server</li> </ul>	Web user interface Remote control CP960 Conference Phone CTP20 Touch Panel
<b>Network Common</b>	<ul style="list-style-type: none"> <li>• NAT Public IP Address/Public IP Address</li> <li>• MAC address</li> <li>• Wi-Fi MAC Address</li> <li>• Machine ID (it is only applicable to VP59)</li> <li>• WAN Port Status (it is only applicable to VP59)</li> <li>• PC Port Status (it is only applicable to VP59)</li> </ul>	Web user interface Endpoint CTP20 Touch Panel



Parameter	Description	Method
<b>AP Status</b> (if Wi-Fi AP is enabled)	<ul style="list-style-type: none"> <li>• AP enabled</li> <li>• AP name</li> <li>• Security mode</li> <li>• Password</li> <li>• Network sharing</li> <li>• Band</li> <li>• Channel</li> </ul>	Web user interface Endpoint CTP20
<b>Account</b>	<ul style="list-style-type: none"> <li>• The registration status of the Cloud platform</li> <li>• The registration status of the SIP account</li> <li>• The registration status of the H.323 account</li> <li>• The registration status of the PSTN account (it is not applicable to VP59)</li> </ul>	Web user interface Endpoint CP960 Conference Phone CTP20
<b>Camera</b> (it is not applicable to VP59)	<ul style="list-style-type: none"> <li>• Status</li> <li>• Device model</li> <li>• SPEC</li> <li>• Hardware version</li> </ul>	Web user interface Endpoint CP960 Conference Phone CTP20
<b>Audio</b>	<ul style="list-style-type: none"> <li>• Active microphone</li> <li>• Active speaker</li> </ul>	Web user interface Endpoint CP960 Conference Phone CTP20
<b>VCS Phone</b> (it is not applicable to VP59)	<ul style="list-style-type: none"> <li>• Status</li> </ul>	Remote control
	<ul style="list-style-type: none"> <li>• Serial number</li> <li>• Firmware version</li> <li>• Hardware version</li> <li>• Device model</li> <li>• IP address</li> <li>• MAC</li> </ul>	Web user interface Endpoint CTP20
<b>License</b>	<ul style="list-style-type: none"> <li>• Device Type</li> <li>• Multipoint Status</li> <li>• Multipoint Ways</li> <li>• Period of validity/Period</li> </ul>	Web user interface Endpoint CP960 Conference Phone CTP20
<b>Storage</b> (it is only applicable to VC200/VP59)	View the local storage	Web user interface

## Viewing System Status

### Procedure

- Do one of the following:
  - On your web user interface, go to **Status**.
  - On your VCS, go to **More > Status**.
    - On your VP59, tap **Setting > System**.
  - On your CP960 conference phone, go to **Settings**.
  - On your CTP20, tap  > **Setting > System Status**.
- Select the desired list to view the status.

## Viewing Call Statistics

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### About this task


If voice quality is poor during a call, you can view call statistics to find out the reason. The call statistics includes:

- Bandwidth:** the received and the sent bandwidth.
- Video:** the definition, the codec, the bandwidth, the frame rate, the jitter, the packet and its loss rate.
- The protocol used to placing calls.
- The device information.
- Audio:** the codec, the bandwidth, the sample rate, the frame rate, the jitter, the packet and its loss rate.
- Content:** the codec, the bandwidth, the definition and the frame rate.


### Procedure

Do one of the following during a call:

- For your VC880/VC800/VC500/VC200/PVT980/PVT950, on your web user interface, click **Home**.

Position your mouse pointer over the desired far site, and click .

- On your VCS:

For VC880/VC800/VC500/VC200/PVT980/PVT950, on your remote control, press  or OK key to open **Talk Menu**, and then select **Call Statistics**.

On your VP59, tap  > **Call Statistics**.

- On your CP960 conference phone, go to **More > Statistics**.

Tap the desired far site to view the call statistics.

- On your CTP20, tap **Participants**, and then select  > **Call Statistics** beside the desired participant.