

Yealink VC Desktop User Guide

Version 1.24.0.1
Dec. 2017

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About This Guide

Yealink VC Desktop is an easy-to-use video conferencing application that extends video communications to mobile professionals, other than only in the typical conference room. With Yealink VC Desktop, not only it is easy for you to realize video conferencing, but also you can initiate a presentation, pictures on your computer in HD quality.

This guide provides everything you may need to start your Yealink VC Desktop quickly. Before use, read the **Getting Started** chapter in this guide carefully, and be sure that the computer performance and IP network environment are ready for VC Desktop configuration.

Intended Audience



This guide is intended for VC Desktop users.

Typographic Conventions

You need to know the following basic typographic conventions to distinguish types of in-text information:

Convention	Description
Bold	Highlights the user interface items such as menus or menu selections when they are involved in a procedure or user action (e.g., Click Check for Update). Also used to emphasize text.
Blue Text	Used for cross references to other sections within this documentation (e.g., refer to Troubleshooting).
<i>Blue Text in Italics</i>	Used for hyperlinks to Yealink resources outside of this documentation such as the Yealink documentations (e.g., For more information, refer to Yealink Meeting Server User Guide .

You also need to know the following writing conventions to distinguish conditional information:

Convention	Description
<>	Indicates that you must enter specific information. For example, when you see <IP address>, enter the IP address.
->	Indicates that you need to select an item from a menu. For example,  . -> About indicates that you need to select About from  .

Terms

As you read this guide, you'll notice that the same terms are used repeatedly. Make sure you familiarize yourself with these terms.

Cloud platform: This term refers to Yealink VC Cloud Management Service and Yealink Meeting Server.

Cloud endpoints: This term refers to the endpoints that support Cloud feature, including VC800/VC500/VC400/VC120/VC110 video conferencing endpoint, SIP VP-T49G IP phone, VC Desktop and VC Mobile.

Software

If it is your first time to install and use Yealink VC Desktop, we recommend you to download the latest software from the Yealink official website: <http://www.yealink.com> using Internet Explorer 8 or later.

If you have already installed the Yealink VC Desktop, you can upgrade the Yealink VC Desktop in order to the latest version. For more information on how to upgrade the Yealink VC Desktop, please refer to [Updating Yealink VC Desktop](#) on page 9.

Hardware and Software Requirements for Windows

These hardware and software requirements are determined by the specific test scenarios. Due to different software and hardware, the system's actual performance may vary from one to another.

Windows	Windows 7 or later, both 32 bit and 64 bit
Processor	Dual cores and four threads, 1.7GHz or higher
RAM	4GB
Video Memory	Minimum: 512MB
Hard Drive Space	150MB
Cameras	Integrated or external cameras
Audio Devices	Integrated or external microphones and speakers For best audio result, it is recommended that you connect a headset as the audio device
Monitor	XGA, 16-bit color or higher
Network Speed	128 kbps and above. (Cable, ADSL, or LAN)
Microsoft Software	DirectX 9.0 or later

System Capabilities and Constraints

The following resolution and algorithms are supported by Yealink VC Desktop.

Resolution

The following table lists the resolutions supported by Yealink VC Desktop.

Resolution and Frame Rate (Maximum)	Source
720p, 30fps	Video sent from camera
1080p, 30fps	Video received from far site
1080p	Content showing from the computer
1080p	Content received from far site

Actual transmitted video resolution is affected by several factors, such as camera capability, computer performance, network conditions, the far-end system's capability, and whether content is being received, it can also be affected by the presentation frame rate of far-site device.


















Algorithm




















The following table lists the algorithms supported by Yealink VC Desktop.




















Algorithms	Description
Audio	<ul style="list-style-type: none"> G.722 G.722.1 G.722.1 Annex C G.711μ or G.711a Acoustic Echo Cancellation(AEC) Automatic Gain Control(AGC) Acoustic Noise Suppression(ANS)
Video	<ul style="list-style-type: none"> H.264 HP H.264 BP H.263
Encryption	AES-128 media encryption


Icon Instruction

Icons appearing on the user interface are described in the following table:

Icon	Description
	Network is available
	SIP account is registered
	H.323 account is registered
	Yealink Cloud account or YMS account is registered
	Local contacts
	Yealink Cloud contacts, YMS contacts or third party devices
	Permanent Virtual Meeting Room
	Room system
	Dial
	Directory
	Call history
	Settings
	Missed calls (H.323 account/SIP account/IP Call)
	Missed calls (Cloud platform)
	Outgoing calls (H.323 account/SIP account/IP Call)
	Outgoing calls (Cloud platform)
	Incoming calls (H.323 account/SIP account/IP Call)

Icon	Description
	Incoming calls (Cloud platform)
	Answer calls
	Reject calls
	Delete local contacts or call records
	Add contacts to local directory from the call history list
	Edit local contacts
	SRTP call or H.235 call
	Call statistics
	Non-current page
	Current page
	Invite conference members
	Apply for speaking (icon displays on the in-call toolbar)
	Apply for speaking (icon displays on the in-call toolbar)
	Cancel the application of speaking
	Mute the microphone
	Adjust the speaker volume
	Unmute the microphone
	The microphone is muted
	Unmute the speaker

Icon	Description
	The speaker is muted
	The volume is 0
	Initiate presentation
	Full screen
	Exit full screen mode
	End a call
	Turn off your video
	Turn on your video
	Change the video layout
	Change audio and video devices
	DTMF keypad
	The sharing toolbar is unlocked
	The sharing toolbar is locked
	Change the sharing content
	Share full screen
	Exit presentation
	Minimize the window
	Maximize the window
	Restore the window

Icon	Description
	Close the window

In This Guide

Topics provided in this guide include:

- Chapter 1 [Getting Started](#)
- Chapter 2 [Customizing Yealink VC Desktop](#)
- Chapter 3 [Using Yealink VC Desktop](#)
- Chapter 4 [Troubleshooting](#)

Summary of Changes

This section describes the changes to this guide for each release and guide version.

Changes for Release 24, Guide Version 1.24.0.1

The following sections are new for this version:

- [Logging out of Yealink VC Desktop](#) on page 5
- [Start on Boot](#) on page 40
- [Ending the Conference](#) on page 67

Major updates have occurred on the following sections:

- [DTMF](#) on page 32
- [Directory](#) on page 41
- [Call Bandwidth](#) on page 46
- [Leaving the Conference](#) on page 66

Changes for Release 23, Guide Version 1.23.0.45

The following sections are new for this version:

- [Noise Block](#) on page 47
- [Permanent Virtual Meeting Room \(YMS Account\)](#) on page 63

Major updates have occurred on the following sections:

- [Yealink Cloud Accounts](#) on page 23

- [Enabling H.460 Firewall Traversal for H.323 Call](#) on page 30
- [Directory](#) on page 41
- [Conference Management \(YMS Account\)](#) on page 64

Changes for Release 23, Guide Version 1.23.0.25

The following sections are new for this version:

- [YMS Accounts](#) on page 27
- [Conference Schedules \(YMS Account\)](#) on page 58
- [Meet Now \(YMS Account\)](#) on page 62
- [Conference Management \(YMS Account\)](#) on page 63

Major updates have occurred on the following sections:

- [License Activation](#) on page 3
- [Account Settings](#) on page 23
- [Directory](#) on page 41
- [Placing Calls](#) on page 49
- [Using the In-call Toolbar](#) on page 53

Changes for Release 21, Guide Version 1.21.3.2

The following sections are new for this version:

- [System Capabilities and Constraints](#) on page vii
- [Yealink Cloud Accounts](#) on page 23

Major updates have occurred on the following sections:

- [Directory](#) on page 41
- [Placing Calls](#) on page 49

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Getting Started


This chapter contains the following information about Yealink VC Desktop:

- [Installing Yealink VC Desktop](#)
- [Login Interface](#)
- [License Activation](#)
- [About Yealink VC Desktop](#)
- [Updating Yealink VC Desktop](#)
- [User Interface Overview](#)
- [Audio and Video Device](#)
- [Configuring Yealink VC Desktop for Firewall Traversal](#)
- [Network Address Translation](#)
- [Adapter](#)
- [Account Settings](#)
- [DTMF](#)
- [Dual-Stream Protocol](#)
- [Configuring Security Features](#)

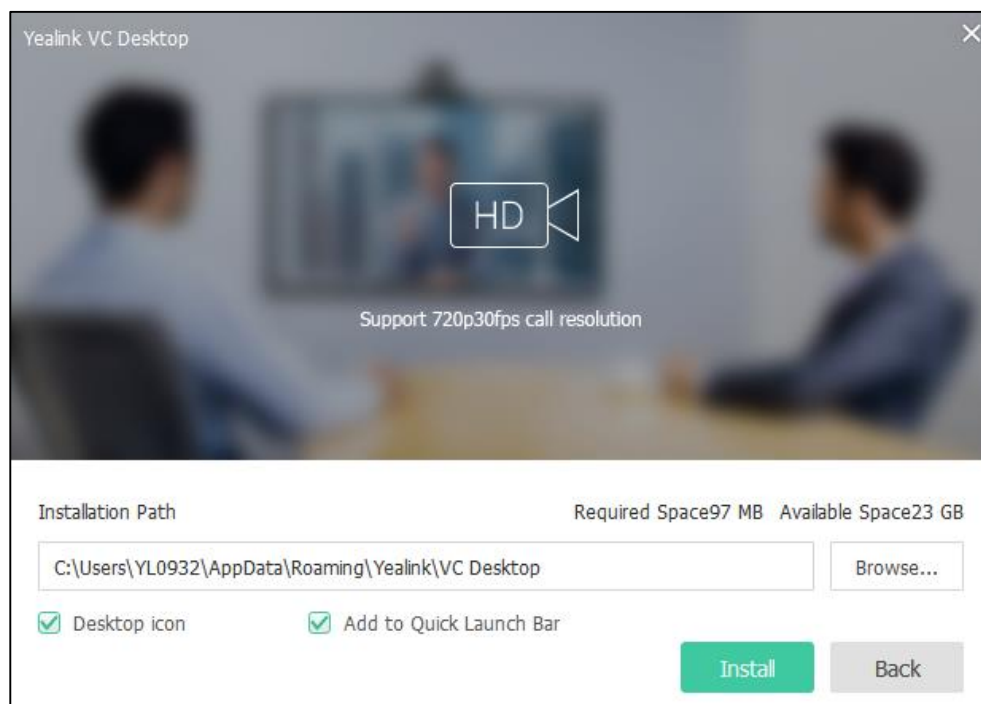
Installing Yealink VC Desktop

After you have downloaded the Yealink VC Desktop application, you can install it on your computer.

To install the Yealink VC Desktop:

1. Double-click Yealink VC Desktop application.
2. Select the desired language from the pull-down list of **Language**.
The Setup interface will be displayed in the selected language.
3. Check **Agree User license agreement and Privacy Policy** checkbox to continue installing the Yealink VC Desktop.
4. Do one of the following to install the Yealink VC Desktop:
 - Click **One-click Setup** to install it immediately.
Yealink VC Desktop is installed by default at
"C:\Users\administrator\AppData\Roaming\Yealink\VC Desktop".
 - Click  to proceed with Custom installation.

The Yealink VC Desktop Setup dialog box will prompt:



Click **Browse...** to locate the destination.

The **Desktop icon** checkbox and **Add to Quick Launch Bar** checkbox are checked by default, allowing you to fast launch the application from the desktop icon or quick launch bar next time. And then click **Install** to begin the installation.

5. After finishing installing, click **Start Experiencing**.

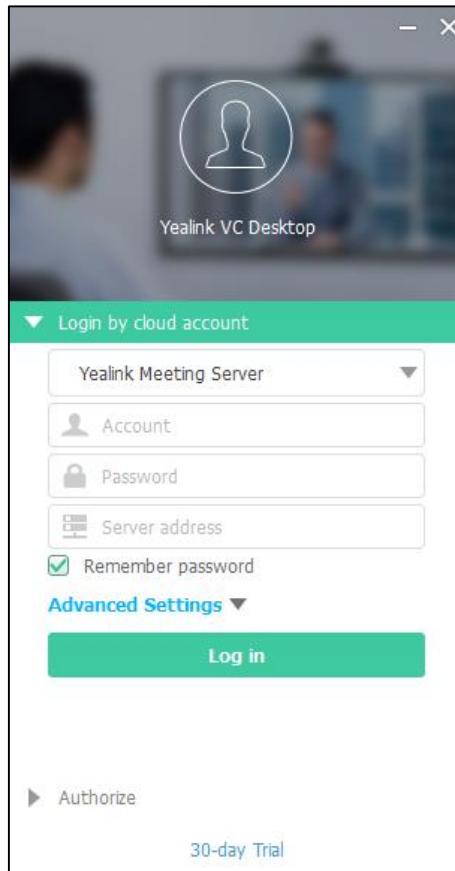
You can check **Start on boot** checkbox, the Yealink VC Desktop will start automatically when your computer starts.

Note

To uninstall Yealink VC Desktop, click the **Start** button on the computer, and then select **All Programs-> Yealink VC Desktop-> Uninstall**, according to the prompt to uninstall the Yealink VC Desktop.

Login Interface

For the first time you start the Yealink VC Desktop, the login interface is displayed as below:



If you want to activate the Yealink VC Desktop directly, you can click **Authorize**. For more information, refer to [License Activation](#) on page 3.

If you want to log into Yealink VC Desktop using Yealink Cloud accounts or YMS accounts directly, you can click **Login by cloud account**. For more information, refer to [Account Settings](#) on page 23.

License Activation

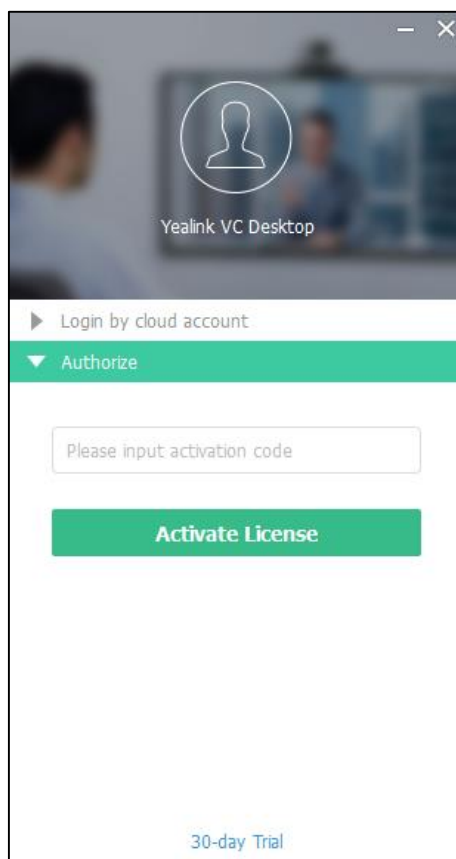
When you first start Yealink VC Desktop, you can click **30-day Trial** to use the trial version.

For a permanent version, you should activate the Yealink VC Desktop by activation code. You can obtain the activation code from Yealink resellers. You can also log into the Yealink VC Desktop using a Yealink Cloud account or a YMS account instead of activation. For more information, please refer to [Account Settings](#) on page 23.

You can activate the Yealink VC Desktop in the login interface or settings menu.

To activate the Yealink VC Desktop in the login interface:

1. Click **Authorize**.
2. Enter the activation code.

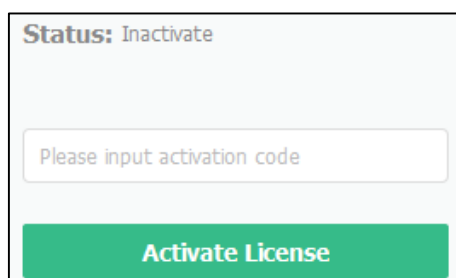


3. Click **Activate License**.

To activate the Yealink VC Desktop in the settings menu:

1. Click  -> **License**.

The current software activation state is shown as below:



2. Enter the activation code.
3. Click **Activate License**.

Logging out of Yealink VC Desktop

To exit the Yealink VC Desktop:

1. Right-click  in the system tray.
2. Select **Exit**.

About Yealink VC Desktop

You can view the Yealink VC Desktop information, update status and give advices.

Do the following:

1. Click  -> **About**.

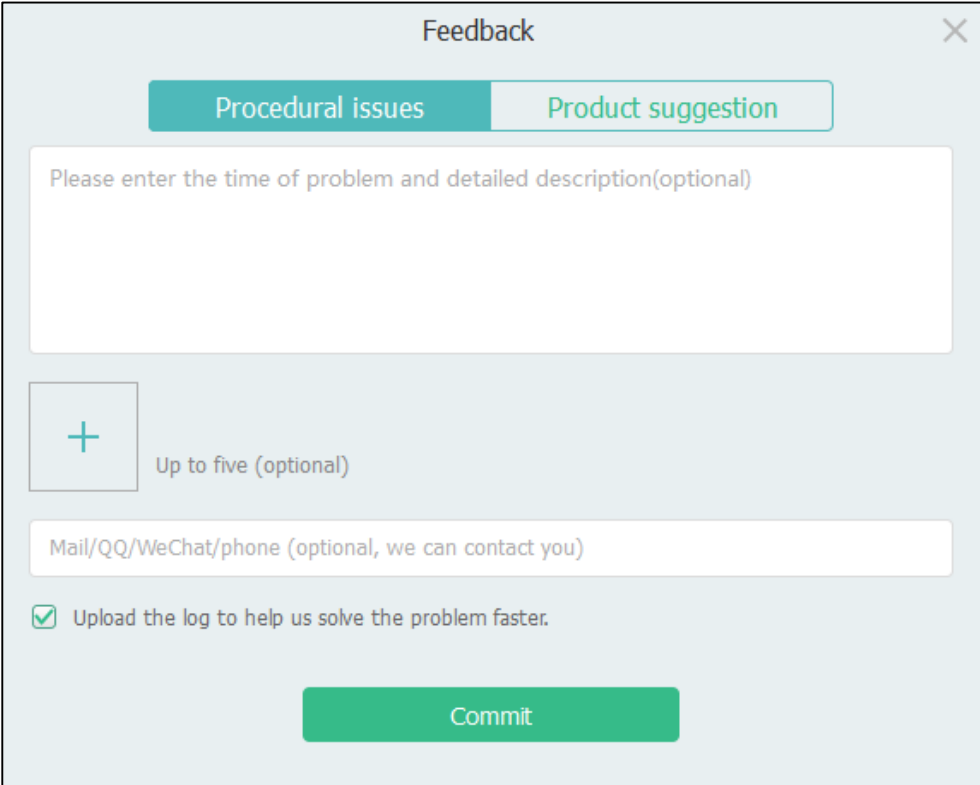
You can view the current version number and copyright information.



You can do one of the following:

- Click **Check for Update**.
The Yealink VC Desktop will automatically check for update and prompt you whether to update to the latest software.
For more information, please refer to [Updating Yealink VC Desktop](#) on page 6.
- Click **Feedback**.

The Feedback dialog box will prompt:

A screenshot of a 'Feedback' dialog box. At the top, there are two tabs: 'Procedural issues' (selected) and 'Product suggestion'. Below the tabs is a large text input area with a placeholder text: 'Please enter the time of problem and detailed description(optional)'. Underneath this is a section with a plus icon in a box and the text 'Up to five (optional)'. Below that is another text input area with a placeholder: 'Mail/QQ/WeChat/phone (optional, we can contact you)'. At the bottom left, there is a checked checkbox followed by the text 'Upload the log to help us solve the problem faster.'. At the bottom center, there is a green 'Commit' button.

If you encounter problems when using Yealink VC Desktop, you can click **Procedural issues** to send the problems to technician.

If you want to give advice on Yealink VC Desktop, click **Product Suggestion** to send your advices.

- Click **Help** to visit the Yealink official website.

Updating Yealink VC Desktop

Yealink VC Desktop will check for updates automatically and give you an update notification, you can choose to update or just ignore it.

You can do one of the following:

- [One-Click Update](#)
- [Installation Package Update](#)

One-Click Update

If you do not have the new installation package, you can update the Yealink VC Desktop using one-click update.

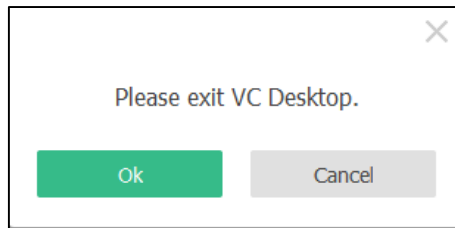
To update the Yealink VC Desktop using one-click update:

1. Click  -> **About**->**Check for Update**.

- If the current version is the latest, you do not need to update.
- If a new software version is detected:

Click **One-click Update**.

A dialog box pops up to prompt that you need to exit the Yealink VC Desktop, shown as below:



Click **OK** to continue updating.

After update, click **Start Experiencing** to enjoy the Yealink VC Desktop in its new version.

If the Yealink VC Desktop fails to update, the failure reasons will be given in the dialog box. For more information, please refer to [General Issues](#) on page 70.

Installation Package Update

If you have the new installation package, you can update the Yealink VC Desktop using installation package update.

To update the Yealink VC Desktop using installation package update:

1. Double-click Yealink VC Desktop application.
2. Do one of the following:
 - When the installation package version is the same as the current version:
If the Yealink VC Desktop needs to be fixed, you can click **One-click Reinstallation** and follow the installation steps.
 - When the installation package version is higher than the current version:
Click **One-click Update** and follow the update steps.
 - When the installation package version is lower than the current version:
Click **One-click Downgrade**.

User Interface Overview

Main Window


The main window appears when Yealink VC Desktop starts. From the main window, you can place a call, manage contacts, view history and modify settings. When you log into Yealink VC Desktop using a YMS account, **Conference Schedule** and **Meet Now** menu appear. Then you can view the scheduled conferences, join conferences and initiate the meet now conference.

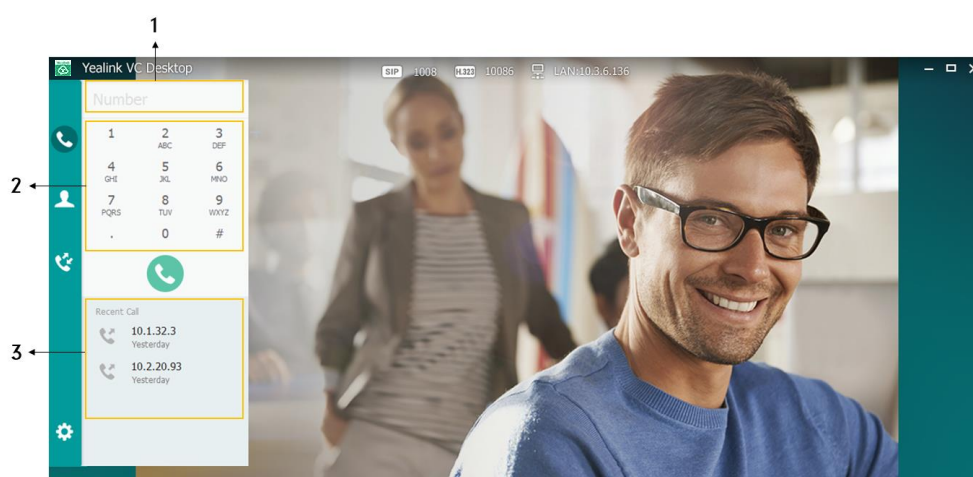


No.	Name	Description
1	Site name	Displays the site name of Yealink VC Desktop. For more information on how to change the site name, refer to Site Name on page 39.
2	Registered account	<p>If a SIP account is registered on Yealink VC Desktop, the account icon is shown as . For more information, refer to H.323 Accounts on page 30.</p> <p>If an H.323 account is registered on Yealink VC Desktop, the account icon is shown as . For more information, refer to H.323 Accounts on page 29.</p> <p>If a Yealink Cloud account or YMS account is registered on Yealink VC Desktop, the account icon is shown as . For more information, refer to Yealink Cloud Accounts on page 23.</p>
3	IP Address	Displays the IP address of your computer.
4	Window control area	Controls the main window. You can minimize, maximize, restore the window or close the window.
5	Video image	Shows local video.
6	Dial	Enters dialing window.

No.	Name	Description
7	Directory	<ul style="list-style-type: none"> Manages the local directory. If Yealink VC Desktop is registered with the Yealink Cloud account, you can also manage the Yealink Cloud directory. If Yealink VC Desktop is registered with the YMS accounts, you can also manage the enterprise directory. <p>For more information, refer to Directory on page 41.</p>
8	Call history	<p>Includes incoming, outgoing and missed calls.</p> <p>For more information on how to manage the call history, refer to Call History Management on page 44.</p>
9	Conference Schedule	<p>Views conference schedules or joins conferences.</p> <p>For more information, refer to Conference Schedule on page 53.</p>
10	Meet Now	<p>Initiates the meet now conference.</p> <p>For more information, refer to Meet Now (YMS Account) on page 62.</p>
11	Settings	Enter settings window.

Dialing Window


Click  to enter the dialing window.

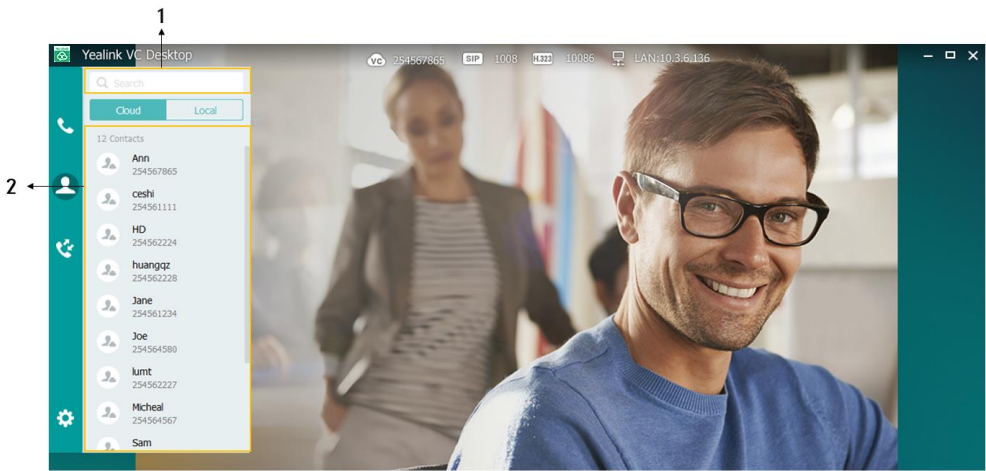


No.	Name	Description
1	Input box/Search box	Displays the calling information you entered.
2	Keypad	Provides numbers, "#" and ".".
3	Recent calls/Search results	Display the recent calls or the search results.

No.	Name	Description
		When you don't enter any character in the search box, the recent calls are displayed.

Directory Window

Click  to enter the directory window. If Yealink VC Desktop is registered with the Yealink Cloud account or the YMS account, you will enter the Yealink Cloud directory listed under the Cloud tab or enterprise directory listed under the Enterprise tab by default. Use the local directory, Yealink Cloud directory/enterprise directory to place a call or search for contacts. For more information, please refer to [Directory](#) on page 41.



(Logging into the Yealink VC Desktop using Yealink Cloud accounts: 254567865)

No.	Name	Description
1	Search box	Displays the searching information you entered.
2	Contact list/Search results	Display the contact list or the search results.

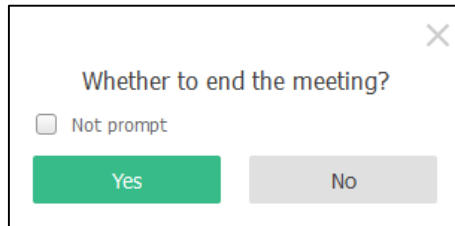
Call Window

The call window is the main work area during calls. In call window, you can perform operations on current calls, such as ending the call or sending DTMF tones.

To close the call window during a call:

1. Click .

A dialog box pops up to ask if you confirm to end the call, shown as below:




2. You can do one of the followings:
 - Click **Yes** to end the call. The call window is closed and Yealink VC Desktop application is hidden in the system tray.
 - Click **No** to continue the call. The call window is zoomed out automatically and brought to front in the bottom-right of the computer.

You can check the **Not prompt** checkbox to turn off the prompt.

To minimize the call window during a call:

1. Click .

The call window is zoomed out automatically and brought to front in the bottom-right of the computer.

2. Do one of the following to restore the call window:
 - Double-click the any area of small window to restore call window.
 - Click  in the top-right of the call window.

Video Call Window

If the far site supports video, Yealink VC Desktop enters the video call window. The far-site video image displays in a large window, and the local site displays in a small window in the top-right corner of the window by default.



No.	Name	Description
1	Far-site name	Displays the site name of the far site.
2	Call duration	Displays the duration of the current call.
3	Video image	Displays local video by default. You can swap the video images and show or hide the video image in the small window. For more information, refer to Changing the Video Layout on page 55.
4	Window control area	Provides the control of the call window. You can minimize the window, maximize the window, restore the window and close the window.
5	In-call toolbar	Provides the basic operations on current calls. For more information on the icons, refer to Icon Instruction on page viii.
6	Video image	Provides far-site video by default. You can swap the video images. For more information, refer to Swapping the Video Images on page 55.
7	Call statistics	Contain the parameters about audio, video and share. For more information on how to view the call statistics, refer to Viewing Call Statistics on page

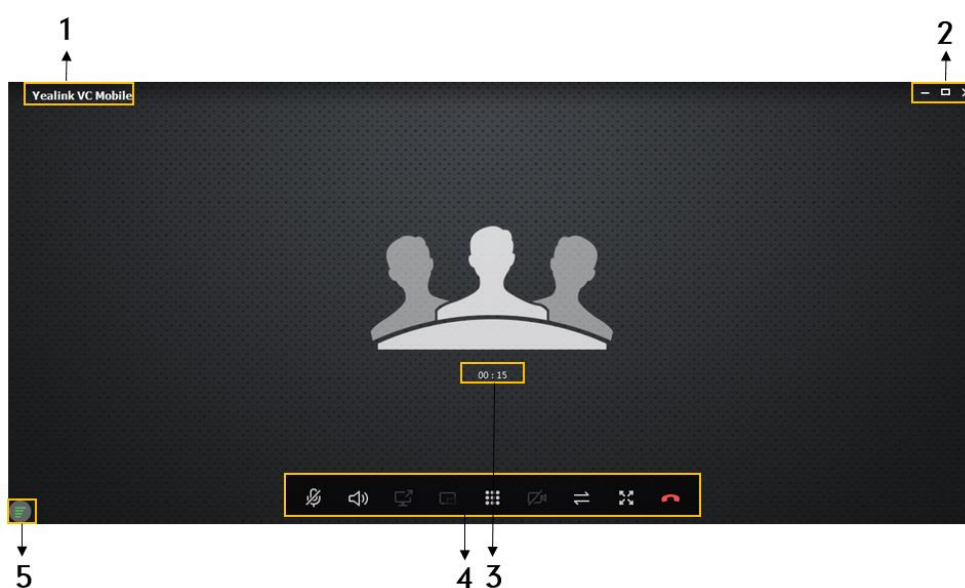
No.	Name	Description
		69.

Note

The video layout varies, depending on whether the presentation is initiated locally or by the far site

Audio Call Window

If the far site does not support video, Yealink VC Desktop enters the adaptive audio call window.



No.	Name	Description
1	Far-site name	Displays the site name of the far site.
2	Window control area	Provides the control of windows. You can minimize the window, maximize the window, restore the window and close the window.
3	Call duration	Displays the duration of the current call.
4	In-call toolbar	Provides the basic operations on current calls. The icons in gray indicate that you cannot share presentation, turn on video and change layout during an audio call. For more information on the icons, refer to Icon Instruction on page viii .
5	Call statistics	Contains the parameters about audio, video and share. For more information on how to view the call statistics, refer to Viewing Call Statistics on page


No.	Name	Description
		69.

Audio and Video Device



If you do not connect new audio or video device, the Yealink VC Desktop will select a system default device for audio or video capture automatically. If you connect a new audio or video device, you can select the desired audio or video device manually.

You can simultaneously configure audio input devices and audio output devices, you can also separately configure audio input and audio output devices.



To configure audio device via the Yealink VC Desktop:

1. Click  -> **Device**.
2. Select the available audio device from the pull-down list of **Audio Device**. The selected audio device is displayed in **Microphone** field and **Speaker** field simultaneously.


To configure audio input device via the Yealink VC Desktop:

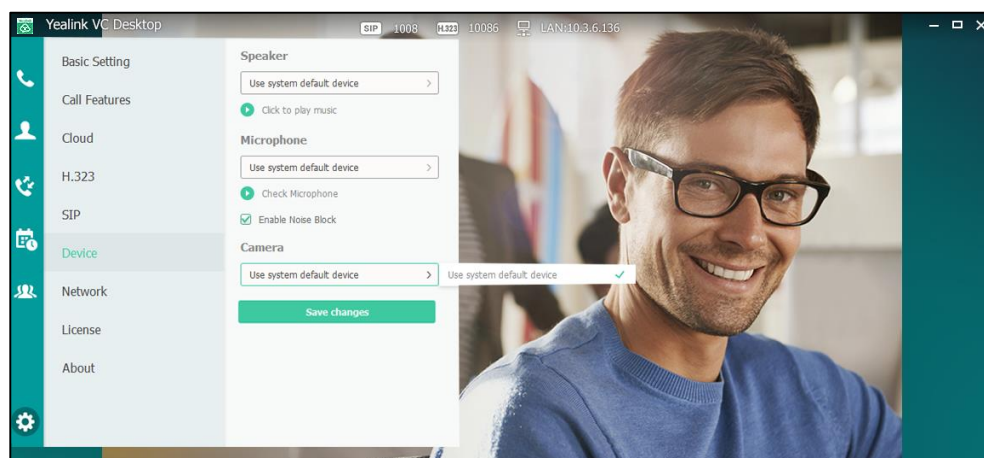
1. Click  -> **Device**.
2. Select the available microphone from the pull-down list of **Microphone**.
3. Click  to test the volume.
4. Click **Save changes**.

To configure audio output device via the Yealink VC Desktop:

1. Click  -> **Device**.
2. Select the available speaker from the pull-down list of **Speaker**.
3. Click  to test the volume.
4. Click **Save changes**.

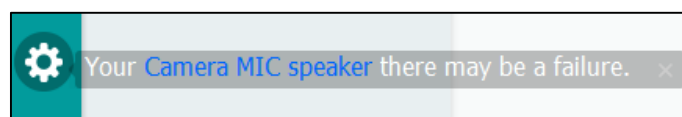
To configure video device via the Yealink VC Desktop:

1. Click  -> **Device**.
2. Select the available camera from the pull-down list of **Camera**.



3. Click **Save changes**.

If your computer does not have available devices or connects a bad device, an error prompt will pop up.

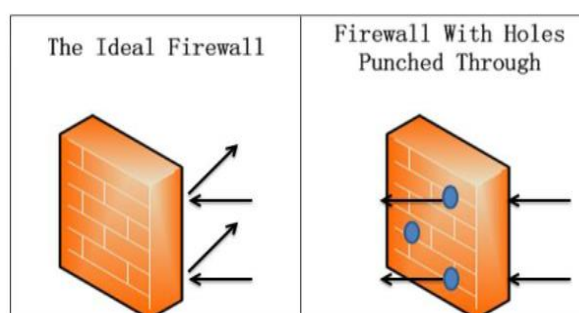


Click the links in blue to enter the audio and video device settings window directly. And then the error prompt will disappear.

For more information on the error, please refer to [Camera Issues](#) on page 72 and [Video & Audio Issues](#) on page 72.

Configuring Yealink VC Desktop for Firewall Traversal

A firewall protects the organization's IP network by controlling data traffic from outside the network. Unless the firewall is designed to work with video conferencing equipment, you must configure the firewall to allow incoming and outgoing traffic to the Yealink VC Desktop through the reserved ports. Users placing calls through a firewall to the Yealink VC Desktop may experience one-way audio or video if the firewall is not properly configured.



Call Setup and Media Ports

You must configure your firewall to allow incoming and outgoing traffic through the following ports:

Description	Port Range	Port Type
Gatekeeper	1719	UDP
H.323 signal port	1720	TCP
SIP (default transport protocol)	5060	UDP
SIP (when selecting the TCP transport protocol)	5060	TCP
SIP (when selecting the TLS transport protocol)	5061	TLS
Reserved ports of the Yealink VC Desktop. For more information, refer to Restricting Reserved Ports on page 16.	50000-50499 (default range)	TCP/UDP

Restricting Reserved Ports

By default, the Yealink VC Desktop communicates through TCP and UDP ports in the range of 50000 - 54999 for video, voice and presentations, and only a small number of these ports will be used during a call. The amount of used ports depends on how many people join the call, which protocols are used, what kind of call you are making (audio or video) and what kind of presentation you are making. You can configure the range of reserved ports to limit the amount of TCP and UDP ports.

To configure reserved ports via the Yealink VC Desktop:

1. Click  -> **Network**.
2. Configure the reserved ports.

Parameters for reserved ports on the Yealink VC Desktop are described below:

Parameter	Description
UDP Port Scope	Configures the range of the UDP ports. Valid values: 1-65535 Default range: 50000-50499 Note: SIP and H.323 calls share the configured ports.
TCP Port Scope	Configures the range of the TCP ports. Valid values: 1-65535 Default range: 50000-50499 Note: SIP and H.323 calls share the configured ports.

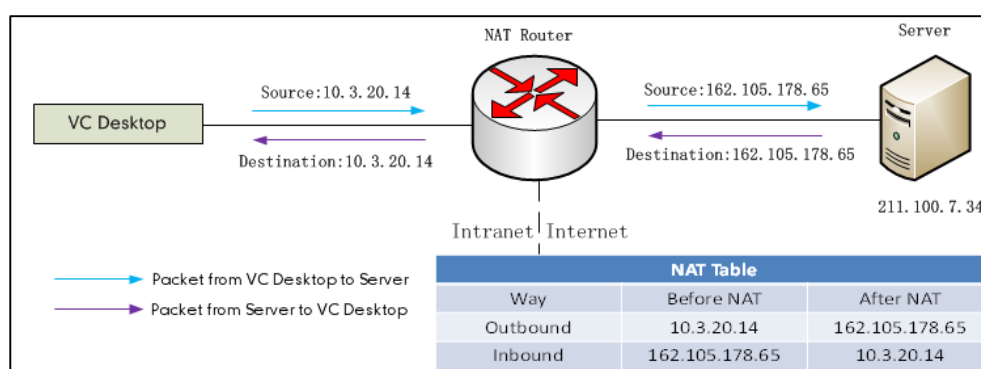
3. Click **Save changes**.

Note

The gap between the maximum UDP/TCP port and the minimum UDP/TCP port should be not less than 200. For example, you set 50000 as the minimum UDP port, the maximum UDP port should be not less than 50200.

Network Address Translation

If you choose to place your Yealink VC Desktop in a private LAN, you must use NAT to communicate with outside systems. This may include enabling static NAT on your software.



Static NAT

NAT enables communication between devices on your LAN that have private IP addresses and devices that are accessed through a public IP network. Static NAT ensures that the same public IP address always maps to a Yealink VC Desktop's private IP address, so that data from the public network intended for the private Yealink VC Desktop can be routed to the destination reliably.

If you are using static NAT to associate a public IP address with the private IP address of Yealink VC Desktop, you must configure your Yealink VC Desktop to work with your static NAT server.

Note

If H.460 Firewall Traversal is enabled on the Yealink VC Desktop, H.323 calls will automatically ignore the static NAT settings. For more information on H.460 Firewall Traversal, refer to [Enabling H.460 Firewall Traversal](#) on page 30.

To configure static NAT via the Yealink VC Desktop:

1. Click  -> **Network**.

2. Configure static NAT.

NAT feature parameters apply to SIP protocol. NAT feature parameters on the Yealink VC Desktop are described below:

Parameter	Description
Static NAT	<p>Specifies the static NAT type.</p> <ul style="list-style-type: none"> • Disabled—the Yealink VC Desktop does not use the NAT feature. • Manual Setting—the Yealink VC Desktop uses the manually configured NAT public address. • Auto—the Yealink VC Desktop obtains the NAT public address from the Yealink-supplied server. <p>Default: Disabled</p>
NAT IP Address	<ul style="list-style-type: none"> • Displays the NAT public address automatically obtained from the Yealink-supplied server if the static NAT is set to Auto. • Configures the NAT public address for the Yealink VC Desktop if the static NAT is set to Manual Setting.

3. Click **Save changes**.

To configure Static NAT for SIP account via the Yealink VC Desktop:

1. Click  -> **SIP**-> **Advanced Settings**.

2. Select **Static** from the pull-down list of **NAT Type**.

NAT feature parameters apply to SIP protocol. NAT feature parameters on the Yealink VC Desktop are described below:

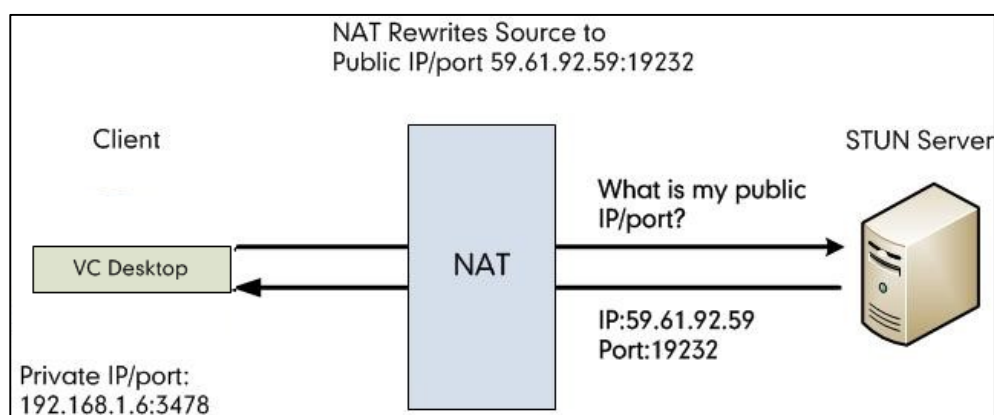
Parameter	Description
NAT Type	<p>Configures the NAT traversal type.</p> <ul style="list-style-type: none"> • Disabled • STUN

Parameter	Description
	<ul style="list-style-type: none"> Static <p>Default: Disabled</p> <p>Note: Static NAT works only if this parameter is set to Static.</p>

- Click **Save changes**.

STUN

STUN (Session Traversal Utilities for NAT) is a network protocol, used in NAT traversal for applications of real-time voice, video, messaging, and other interactive IP communications. The STUN protocol allows entities behind a NAT to first discover the presence of a NAT and the type of NAT (for more information on the NAT types, refer to [NAT Types](#) on page 21.) and to obtain the mapped (public) IP address and port number that the NAT has allocated for the UDP connections to remote parties. The protocol requires assistance from a third-party network server (STUN server) usually located on public Internet. The Yealink VC Desktop can be configured to work as a STUN client, to send exploratory STUN messages to the STUN server. The STUN server uses those messages to determine the public IP address and port used, and then informs the client. For more information, refer to [RFC3489](#).



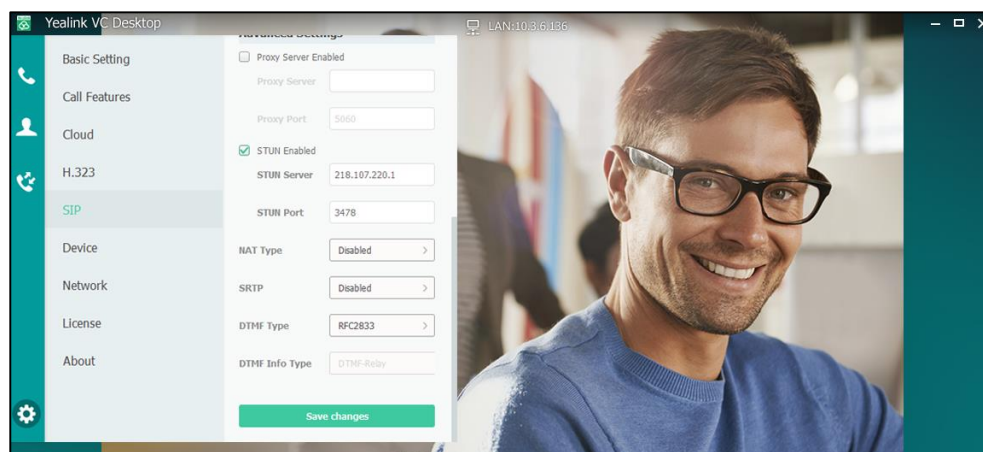
Capturing packets after you enable the STUN feature, you can find that the Yealink VC Desktop sends Binding Request to the STUN server, and then mapped IP address and port is placed in the Binding Response: Binding Success Response MAPPED-ADDRESS: 59.61.92.59:19232.

No.	Time	Source	Destination	Protocol	Length	Info
444	18.587848	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

To configure STUN server via the Yealink VC Desktop:

- Click  -> **SIP->Advanced Settings**.

2. Configure STUN server.




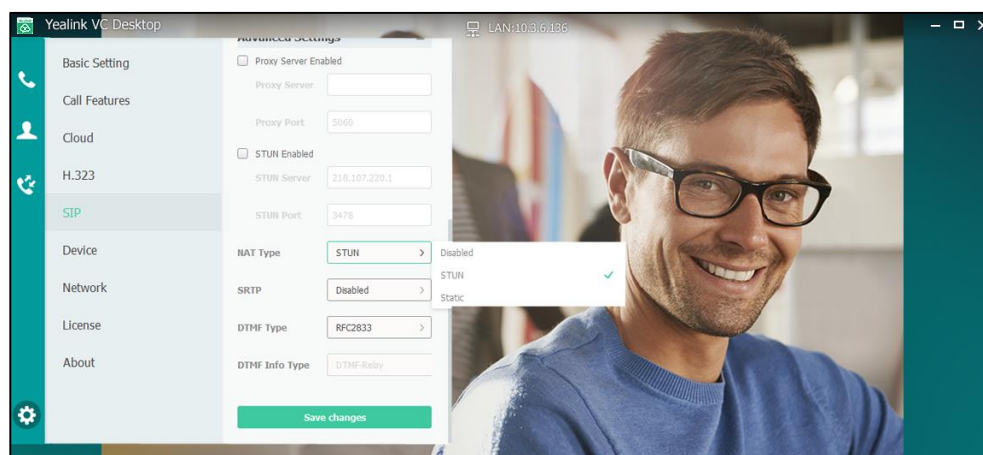
STUN feature parameters apply to SIP protocol. STUN feature parameters on the Yealink VC Desktop are described below:

Parameter	Description
STUN Enabled	Enables or disables the STUN. Default: Disabled
STUN Server	Configures the IP address or the domain name of the STUN (Simple Traversal of UDP over NATs) server. Default: Blank
STUN Port	Configures the port of the STUN (Simple Traversal of UDP over NATs) server. Default: 3478

3. Click **Save changes**.

To configure STUN for SIP account via the Yealink VC Desktop:

1. Click  -> **SIP**-> **Advanced Settings**.
2. Select **STUN** from the pull-down list of **NAT Type**.



STUN feature parameters on the Yealink VC Desktop are described below:

Parameter	Description
NAT Type	<p>Configures the NAT traversal type.</p> <ul style="list-style-type: none"> • Disabled • STUN • Static <p>Default: Disabled</p> <p>Note: STUN works only if this parameter is set to STUN.</p>

3. Click **Save changes**.

NAT Types

Full Cone:

A full cone NAT is the one where all requests from the same internal IP address and port are mapped to the same external IP address and port. Furthermore, any external host can send a packet to the internal host, by sending a packet to the mapped external address.

Restricted Cone:

A restricted cone NAT is the one where all requests from the same internal IP address and port are mapped to the same external IP address and port. Unlike a full cone NAT, an external host (with IP address X) can send a packet to the internal host only if the internal host had previously sent a packet to IP address X.

Port Restricted Cone:

A port restricted cone NAT is like a restricted cone NAT, but the restriction includes port numbers. Especially, an external host can send a packet, with source IP address X and source port P, to the internal host only if the internal host had previously sent a packet to IP address X and port P.

Symmetric:

A symmetric NAT is the one where all requests from the same internal IP address and port, to a specific destination IP address and port, are mapped to the same external IP address and port. If the same host sends a packet with the same source address and port, but to a different destination, a different mapping is used. Furthermore, only the external host that receives a packet can send a UDP packet back to the internal host.

ICE

ICE (Interactive Connectivity Establishment) is a technique that use STUN, TURN and other methods to solve the NAT traversal issue. Meanwhile, it is also a considerable solution to the

complex problem of NAT traversal which always enables connectivity regardless of how many NATs is involved. Since ICE incorporates many of the methods proposed for NAT traversal of SIP which do not rely on the firewall or NAT device, the Yealink VC Desktop can discover other peers and then establish a connection with it.

The advantage of ICE is that the client does not need to judge the NAT types by itself. Besides, ICE uses a server to allocate unilateral address and at the same time is allowed to connect with the client directly, while STUN and TURN are totally dependent on an additional server. Hence, either of a STUN server or a TURN server fails, ICE can still continue the call process. Moreover, the main disadvantage of the traditional STUN is that it cannot work fine in all network topologies, especially for the symmetric NAT (for more information on symmetric NAT, please refer to NAT Types on page 36). And for STURN protocol, packet loss and packet delay are easy to come by since the server is overload. However, ICE provides a solution to load balancing by means of turning the transmitted service to the lowest priority service, ensuring the service reliability and flexibility.

ICE is supported, but it is configurable on Yealink VC Desktop.

TURN

TURN (Traversal Using Relay around NAT) is the relay extensions to STUN. To put it simply, the similarity between TURN and STUN is that both of them realize NAT traversal by changing the private network address in application layer, and the difference between them is that TURN realizes NAT traversal by the relay.

If a host is behind NAT, it cannot realize direct point-to-point connection with other host. In this case, the intermediate nodes are required to provide connection services. TURN protocol allows the host to control the relay's action and to use the relay to exchange data with the terminal. The difference between TURN and other relays is that TURN can allow a client to be connected with multiple terminals by using one relay address.

TURN is supported, but it is configurable on Yealink VC Desktop.

Adapter

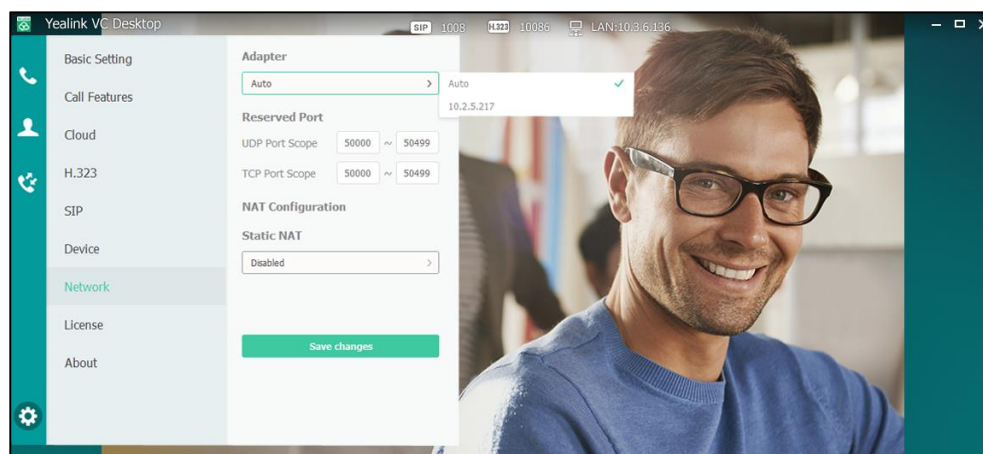
If your network has more than one adapter, you can choose the desired IP address for Yealink VC Desktop.

This value is set to **Auto** by default, Yealink VC Desktop will use the current adapter to connect to the Internet.

To select the adapter via the Yealink VC Desktop:

1. Click  -> **Network**.

2. Select desired value or **Auto** from the pull-down list of **Adapter**.



3. Click **Save changes**.

Account Settings

Yealink Cloud Accounts

When you first start Yealink VC Desktop, you can log into the Yealink VC Desktop using Yealink Cloud account in the login interface directly instead of activation. You can also log into the Yealink VC Desktop using Yealink Cloud account in the settings menu.

The Yealink Cloud account information contains pincode, Cloud number, password and the IP address or domain name of Yealink VC Cloud Management Service, which can be obtained from your cloud enterprise administrator. And you can only log into Yealink VC Desktop by one account. While one Yealink Cloud account can be used to log into five Cloud endpoints at most simultaneously.

The Yealink VC Desktop supports two ways to log into Yealink VC Desktop using Yealink Cloud accounts:

- [Pincode Login](#)
- [Username/Password](#)

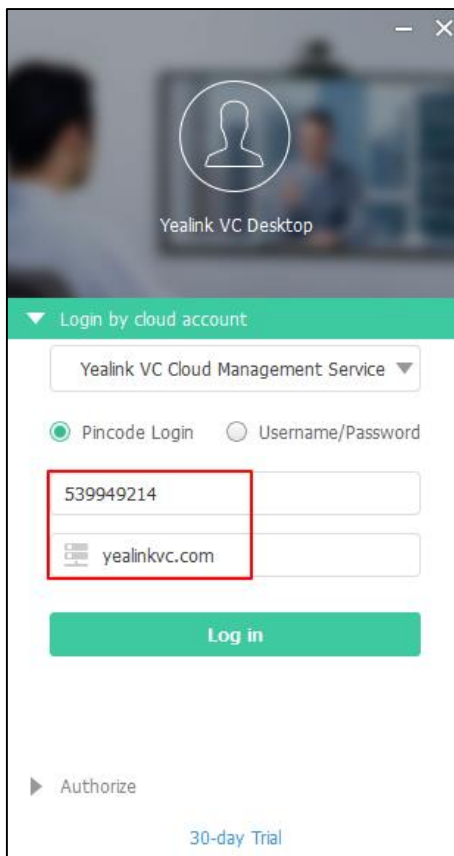
Pincode Login

You can register the Yealink Cloud account using pincode in the login interface or in the settings menu. Note that the pincode can only be used once.

To register the Yealink Cloud account using pincode in the login interface:


1. Click **Login by cloud account**.
2. Select **Yealink VC Cloud Management Service** from the pull-down list.
3. Mark the radio box of **Pincode Login**.

4. Enter the pincode and the IP address or domain name of Yealink VC Cloud Management Service in the corresponding field.

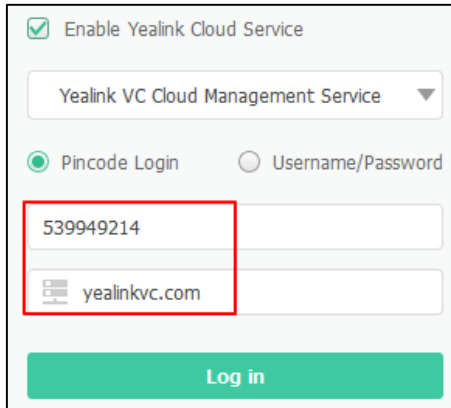


5. Click **Log in**.

To register the Yealink Cloud account using pincode in the settings menu:

1. Click  -> **Cloud**.
2. Check the **Enable Yealink Cloud Service** checkbox.
It is checked by default.
3. Select **Yealink VC Cloud Management Service** from the pull-down list.
4. Mark the radio box of **Pincode Login**.

5. Enter the pincode and the IP address or domain name of Yealink VC Cloud Management Service in the corresponding field.



6. Click **Log in**.

Note

If you fail to register the Yealink Cloud account using pincode, you can re-enter the pincode according to the prompt or contact your cloud enterprise administrator.

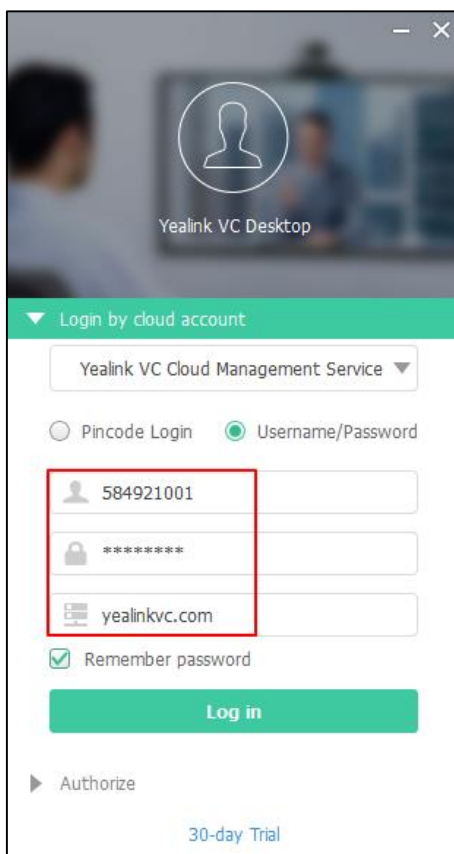
Username/Password

You can register the Yealink Cloud account using username/password in the login interface or in the settings menu.

To register the Yealink Cloud account using username/password in the login interface:


1. Click **Login by cloud account**.
2. Select **Yealink VC Cloud Management Service** from the pull-down list.
3. Mark the radio box of **Username/Password**.
4. Enter the Cloud number, password and the IP address or domain name of Yealink VC Cloud Management Service in the corresponding field.
5. To remember the password, check the **Remember password** checkbox, therefore you do not need to enter the password next time.

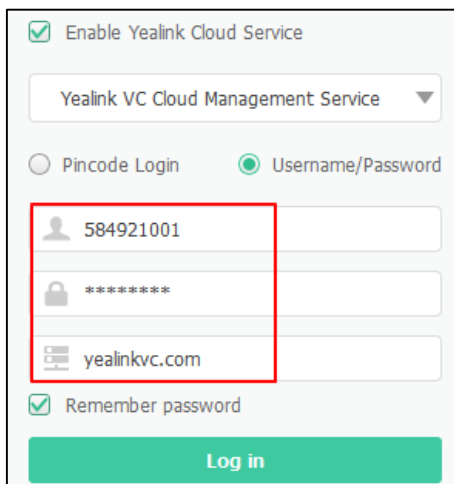
It is checked by default.



6. Click **Log in**.

To register the Yealink VC Desktop using username/password in the settings menu:

1. Click  -> **Cloud**.
2. Check **Enable Yealink Cloud Service** checkbox.
It is checked by default.
3. Select **Yealink VC Cloud Management Service** from the pull-down list.
4. Mark the radio box of **Username/Password**.



5. Enter the Cloud number, password and the IP address or domain name of Yealink VC Cloud Management Service in the corresponding field.
6. To remember the password, check the **Remember password** checkbox, therefore you do not need to enter the password next time.
It is checked by default.
7. Click **Log in**.

Note

If you fail to register the Yealink Cloud account using user/password, you can re-enter the Cloud number and password according to the prompt or contact your cloud enterprise administrator.

YMS Accounts

When you first start Yealink VC Desktop, you can log into the Yealink VC Desktop using YMS account in the login interface directly instead of activation. You can also log into the Yealink VC Desktop using YMS account in the settings menu. The YMS account information contains account, password and the domain name of YMS. You can obtain the YMS account information from your enterprise administrator.

You can only log into Yealink VC Desktop by one account. A YMS account can be used to log into five Cloud endpoints at most simultaneously.


To log into the Yealink VC Desktop using YMS account in the login interface:

1. Click **Login by cloud account**.
2. Select **Yealink Meeting Server** from the pull-down list.

3. Enter the number, password and the domain name of YMS in the corresponding field.

4. To remember the password, check the **Remember password** checkbox, you do not need to enter the password next time.
5. (Optional.) Click **Advanced Settings**, enter the IP address or domain name of the proxy server.
6. Click **Log in**.

To log into the Yealink VC Desktop using YMS account in the settings interface:

1. Click  -> **Cloud**.
2. Check **Enable Yealink Cloud Service** checkbox.
It is checked by default.
3. Select **Yealink Meeting Server** from the pull-down list.


4. Enter the number, password and the domain name of YMS in the corresponding field.

5. To remember the password, check the **Remember password** checkbox, you do not need to enter the password next time.
6. (Optional.) Click **Advanced Settings**, enter the IP address or domain name of the proxy server.
7. Click **Log in**.

H.323 Accounts

Yealink VC Desktop supports H.323 protocol. If a gatekeeper is used on your network, you can register an H.323 account for Yealink VC Desktop, and specify its H.323 name and extension, which allows others to call the Yealink VC Desktop via its H.323 name or extension instead of its IP address.

To configure H.323 account via the Yealink VC Desktop:

1. Click  -> **H.323**.
2. Configure the H.323 account settings.

H.323 settings parameters on Yealink VC Desktop are described below:

Parameter	Description
H.323 Switch	<p>Enables or disables the H.323 protocol.</p> <p>Default: Enabled.</p> <p>Note: Only when it is enabled, can H.323 account be registered. When it is enabled on both sites, the Yealink VC Desktop can call the far site by dialing an IP address directly.</p>
User Name	Specifies the name that gatekeepers and gateways use to identify

Parameter	Description
	different Yealink VC Desktop. You can make point-to-point calls using H.323 names if both Yealink VC Desktop are registered to one same gatekeeper.
Extension Number	Specifies the extension that gatekeepers and gateways use to identify different Yealink VC Desktop. Note: Users can place point-to-point calls using the extension if both Yealink VC Desktop are registered with one same gatekeeper,
GK Server	Configures the IP address or domain name of the primary gatekeeper.
GK Authentication	Enables or disables gatekeeper authentication. Default: Disabled Note: When Gatekeeper Authentication is enabled, only the trusted Yealink VC Desktop is allowed to access the gatekeeper.
GK Username	Specifies the user name for authentication with gatekeeper
GK Password	Specifies the password for authentication with gatekeeper.

3. Click **Save changes**.

The H.323 name appears in the status bar if it is registered successfully.

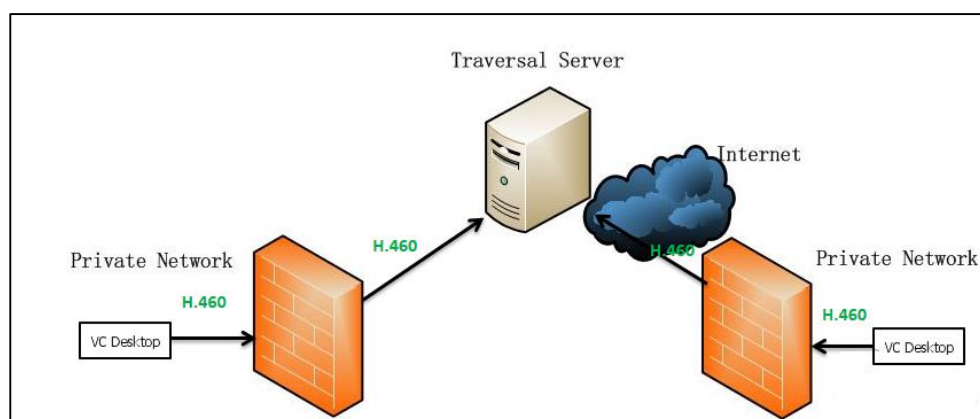
Enabling H.460 Firewall Traversal for H.323 Call

Yealink VC Desktop supports firewall traversal of H.323 calls using H.460 protocols. You must have an H.460 server configured in your environment for this feature to function properly.


Note

If you configure H.323 settings and enable H.460 support, the system ignores Static NAT settings. For more information on NAT, refer to [Static NAT](#) on page 17.

The process is shown as below:



To configure H.460 firewall traversal via the Yealink VC Desktop:

1. Click  -> **H.323**.
2. Check **H.460 Switch** checkbox to enable H.460 firewall traversal feature.

The H.460 firewall traversal parameter is described below:


Parameter	Description
H.460 Switch	Enables or disables firewall traversal of H.323 calls using H.460 protocols. Default: Disabled

3. Click **Save changes**.

SIP Accounts

Yealink VC Desktop supports Session Initiation Protocol (SIP). You can establish and receive audio/video calls using Session Initiation Protocol (SIP) on Yealink VC Desktop if your current server supports it. And to use this feature, you should configure a SIP account for Yealink VC Desktop first.

To configure SIP account via the Yealink VC Desktop:

1. Click  -> **SIP**.
2. Configure the SIP account settings.

SIP account parameters on the Yealink VC Desktop are described below:

Parameter	Description
SIP Switch	Enables or disables the SIP protocol. Default: Enabled Note: Only when it is enabled, can SIP account be registered. When it is enabled on both sites, the Yealink VC Desktop can call the far site by dialing an IP address directly.
User Name	Specifies the user name for authentication when registering on a SIP server. Default: Blank
Register Name	Configures the user name of the SIP account for authentication registration. Default: Blank
Password	Specifies the password associated with the user name used to authenticate the Yealink VC Desktop to the SIP server. Default: Blank
Server	Configures the IP address or domain name of the SIP server for the

Parameter	Description
	SIP account. Default: Blank
Port	Configures the port number for the SIP account. Default: 5060 Note: An integer between 0 and 65535.
Proxy Server Enabled	Enables or disables the proxy server. Default: Disabled
Proxy Server	Configures the IP address or domain name of the proxy server for the SIP account. Default: it is configurable only when the Proxy Server is enabled.
Proxy Port	Configures the port number for the proxy server port. Default: 5060 Note: An integer between 0 and 65535.
Transport	Configures the type of transport protocol for the SIP account. <ul style="list-style-type: none"> • UDP—provides best-effort transport for SIP signal. • TCP—provides reliable transport for SIP signal. • TLS—provides encrypted transport of SIP signal. For more information, please refer to Transport Layer Security on page 34. • DNS-NAPTR—performs the DNS NAPTR and SRV queries for the service type and port if no server port is given. Default: UDP Note: TLS is available only when the Yealink VC Desktop is registered on a SIP server that supports TLS.


3. Click **Save changes**.

The SIP name appears in the status bar if it is registered successfully.

DTMF

DTMF (Dual Tone Multi-frequency), better known as touch-tone, is used for telecommunication signaling over analog telephone lines in the voice-frequency band. You can configure DTMF type for SIP protocol and H.323 protocol respectively.

To configure DTMF type for SIP protocol via the Yealink VC Desktop:


1. Click  -> **SIP**-> **Advanced Settings**.
2. Select the desired value from the pull-down list of **DTMF Type**.

DTMF parameters on the Yealink VC Desktop are described below:

Parameter	Description
DTMF Type	<p>Configures the DTMF type.</p> <ul style="list-style-type: none"> • INBAND—DTMF digits are transmitted in the voice band. • RFC2833—DTMF digits are transmitted by RTP Events compliant to RFC 2833. • SIP INFO—DTMF digits are transmitted by the SIP INFO messages. <p>Default: RFC2833</p>
DTMF Info Type	<p>Configures the DTMF info type when DTMF type is set to SIP INFO.</p> <ul style="list-style-type: none"> • DTMF-Relay • DTMF • Telephone-Event <p>Default: DTMT-Relay</p>

3. Click **Save changes**.

To configure DTMF type for H.323 protocol via the Yealink VC Desktop:

1. Click  -> **H.323**.
2. Select the desired value from the pull-down list of **DTMF Type**.

DTMF parameters on the Yealink VC Desktop are described below:

Parameter	Description
DTMF Type	<p>Configures the DTMF type.</p> <ul style="list-style-type: none"> • INBAND—DTMF digits are transmitted in the voice band. • Auto—The Yealink VC Desktop will negotiate with the far site to use the optimal DTMF type. <p>Default: auto</p>

3. Click **Save changes**.

Dual-Stream Protocol

To enhance the process of communicating with others over video, the dual-stream protocol provides the ability to share content from a computer, such as video clips or documentation. Both the video and the documentation can be transmitted to the far site simultaneously, thus meeting the requirements of different conference scenarios, such as training or medical consultation.

The Yealink VC Desktop supports the standard H.239 protocol and BFCP (Binary Floor Control Protocol). H.239 protocol is used when sharing content with the far site in H.323 calls. H.239 protocol is enabled by default and is not configurable. BFCP protocol is used when sharing

content with the far site in SIP calls. Before enabling BFCP protocol, ensure that the protocol is supported and enabled by the far site you wish to call.

To configure BFCP dual-stream protocol for SIP call via the Yealink VC Desktop:

1. Click  -> **SIP**.

2. Check **BFCP** checkbox to enable the BFCP protocol for sharing content in SIP calls.

BFCP parameters apply to SIP protocol. BFCP parameters on the Yealink VC Desktop are described below.

Parameter	Description
BFCP	Enables or disables the BFCP protocol for sharing content in SIP calls. Default: Disabled

3. Click **Save changes**.

Configuring Security Features

Transport Layer Security

Transport Layer Security (TLS), a commonly-used protocol, aims primarily to provide privacy and security of message transmission among communications. It allows Yealink VC Desktop to connect to HTTPS URL for provisioning and communicate with other remote parties that, in a way, prevents it from eavesdropping and tampering.

TLS protocol is composed of two layers: TLS Record Protocol and TLS Handshake Protocol. The TLS Record Protocol completes the actual data transmission and ensures the integrity and privacy of the data. As for the TLS Handshake Protocol, it allows the server and client to authenticate each other and negotiate an encryption algorithm and cryptographic keys before data is exchanged.

Yealink VC Desktop 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 using the TLS/SSL network protocol.

The Yealink VC Desktop 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

The following figure illustrates the TLS messages exchanged between the Yealink VC Desktop and TLS server to establish an encrypted communication channel:

No.	Time	Source	Destination	Protocol	Info
1	0.000000	192.168.3.86	192.168.0.230	SSLv3	Client Hello
2	0.021345	192.168.0.230	192.168.3.86	SSLv3	Server Hello, Certificate, Server Key Exchange, Server Hello Done
3	0.954947	192.168.3.86	192.168.0.230	SSLv3	Client Key Exchange, Change Cipher Spec, Encrypted Handshake Message
4	0.970099	192.168.0.230	192.168.3.86	SSLv3	Change Cipher Spec, Encrypted Handshake Message
5	1.012295	192.168.3.86	192.168.0.230	SSLv3	Application Data, Application Data
6	1.013562	192.168.0.230	192.168.3.86	SSLv3	Application Data
7	1.013667	192.168.0.230	192.168.3.86	SSLv3	Application Data

Frame 13: 652 bytes on wire (5216 bits), 652 bytes captured (5216 bits)
 # Ethernet II, Src: Vmware_72:c9:2e (00:0c:29:72:c9:2e), Dst: Xiamenye_11:12:b7 (00:15:65:11:12:b7)
 # Internet Protocol, Src: 192.168.0.230 (192.168.0.230), Dst: 192.168.3.86 (192.168.3.86)
 # Transmission Control Protocol, Src Port: https (443), Dst Port: nmsserver (2244), Seq: 1482, Ack: 437, Len: 586
 # Secure Socket Layer

Step1: The Yealink VC Desktop sends "Client Hello" message proposing SSL options.

Step2: Server responds with "Server Hello" message selecting the SSL options, sends its public key information in "Server Key Exchange" message and concludes its part of the negotiation with "Server Hello Done" message.

Step3: The Yealink VC Desktop sends key session information (encrypted by server's public key) in the "Client Key Exchange" message.

Step4: Server sends "Change Cipher Spec" message to activate the negotiated options for all future messages which it will be sent later.

The Yealink VC Desktop can encrypt SIP with TLS, which is called SIPS. When TLS is enabled for the SIP account, the message of the SIP account will be encrypted after the successful TLS negotiation.

Secure Real-Time Transport Protocol

You can configure Secure Real-Time Transport Protocol (SRTP) to encrypt RTP streams to avoid interception and eavesdropping. Both RTP and RTCP signaling may be encrypted using an AES algorithm as described in RFC3711. Encryption modifies the data in the RTP streams so that, if the data is captured or intercepted, it cannot be understood—it sounds like noise, and only the receiver knows the key to restore the data. To use SRTP encryption for SIP calls, all participants in the call must enable SRTP simultaneously, and then Yealink VC Desktop will negotiate with the far-site device for the encryption algorithm used in the session. This negotiation process is compliant with RFC 4568.

When a site places a call on the SRTP enabled, the Yealink VC Desktop will send an INVITE message with the RTP encryption algorithm to the destination device.

The following is an example of INVITE message carried with RTP encryption in SDP:

```
m=audio 11780 RTP/SAVP 0 8 18 9 101
a=crypto:1 AES_CM_128_HMAC_SHA1_80 inline:NzFINTUwZDk2OGVIOTc3YzNkYTkWZWVMTM1YWFj
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:101 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 responding with a 200 OK message which carries the negotiated RTP encryption algorithm.

The following is an example of 200 OK message carried with RTP encryption in SDP:

```
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:NGY4OGViMDYzZjQzYTNIOTNkOWRiYzRlMjM0Yzcy
a=sendrecv
a=ptime:20
a=fmtp:101 0-15
```

Rules of SRTP for media encryption in SIP calls:


Far \ Near	Compulsory	Enabled	Disabled
Compulsory	SRTP Call	SRTP Call	Fail to establish call
Enabled	SRTP Call	SRTP Call	RTP Call
Disabled	Fail to establish call	RTP Call	RTP Call

When SRTP is enabled on both devices, calls will be encrypted, and the lock icon  will appear on the user interface of each site during a call.

Note

If SRTP is enabled for the SIP account, you should also configure the transport type to TLS, ensuring the security of SRTP encryption. For more information on TLS, refer to [Secure Real-Time Transport Protocol](#) on page 36.

To configure SRTP for SIP protocol via the Yealink VC Desktop:

1. Click  -> **SIP** -> **Advanced Settings**.
2. Select the desired value from the pull-down list of **SRTP**.

The SRTP parameter applies to SIP protocol on Yealink VC Desktop and is described below:

Parameter	Description
SRTP	<p>Specifies the SRTP type.</p> <ul style="list-style-type: none"> • Disabled—do not use SRTP in SIP calls. • Enabled—negotiate with the far site whether to use SRTP for media encryption in SIP calls. • Compulsory—compulsively use SRTP for media encryption in SIP calls. <p>Default: Disabled</p>


3. Click **Save changes**.

H.235 Encryption


Yealink VC Desktop supports H.235 128-bit AES algorithm using the Diffie-Hellman key exchange protocol in H.323 calls. To use H.235 feature for H.323 calls, the participants in the call must enable the H.235 feature simultaneously. After that, if a site places a call on Yealink VC Desktop, the Yealink VC Desktop negotiates the encryption algorithm with the destination devices.

Rules of H.235 security in H.323 calls:

Far \ Local	Enabled	Disabled
Enabled	H.235 Call	RTP Call
Disabled	RTP Call	RTP Call

When H.235 is enabled on both sites, calls will be encrypted, and the lock icon  will appear on the user interface of each site during a call.

To configure H.235 for H.323 account via the Yealink VC Desktop:

1. Click  -> **H.323**.
2. Check **H.235 Encryption** checkbox.

The H.235 parameter on the Yealink VC Desktop is described below:

Parameter	Description
H.235 Encryption	<p>Enables or disables the H.235 encryption.</p> <p>Default: Disabled</p> <p>Note: If it is enabled, the Yealink VC Desktop will negotiate with the far site whether to use H.235 in H.323 calls.</p>

3. Click **Save changes**.

Customizing Yealink VC Desktop

You can customize your Yealink VC Desktop by personally configuring certain settings, for example, site name, languages. You can add contacts to the local directory manually or from the call history.

This chapter provides basic operating instructions for customizing your VC Desktop. Topics include:


- [Basic Settings](#)
- [Directory](#)
- [Call History Management](#)
- [Call Protocol](#)
- [Call Bandwidth](#)

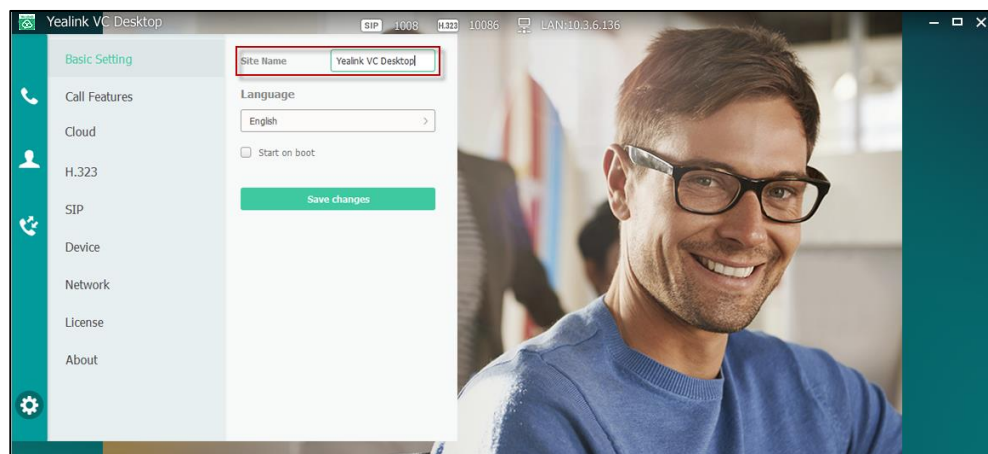
Basic Settings

Site Name

Site name, consisting of letters, numbers or special characters, is displayed on the status bar of the Yealink VC Desktop. You can modify the site name via the Yealink VC Desktop.

To modify site name via the Yealink VC Desktop:

1. Click  -> **Basic Setting**.
2. Edit the site name in the **Site Name** field.




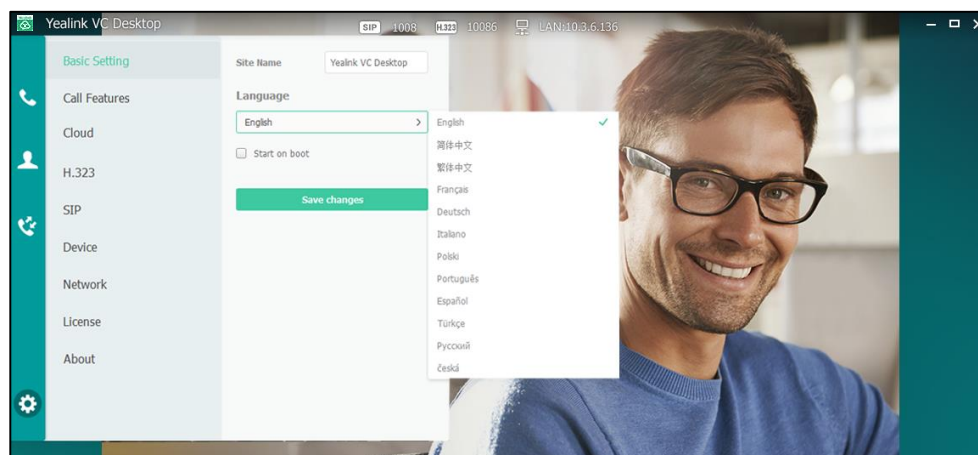
3. Click **Save changes**.

Language

The languages supported in Yealink VC Desktop are English, Chinese Simplified, Chinese Traditional, French, German, Italian, Polish, Portuguese, Spanish, Turkish, Russian and Czech.

To specify the language for the Yealink VC Desktop:

1. Click  -> **Basic Setting**.
2. Select the desired language from the pull-down list of **Language**.



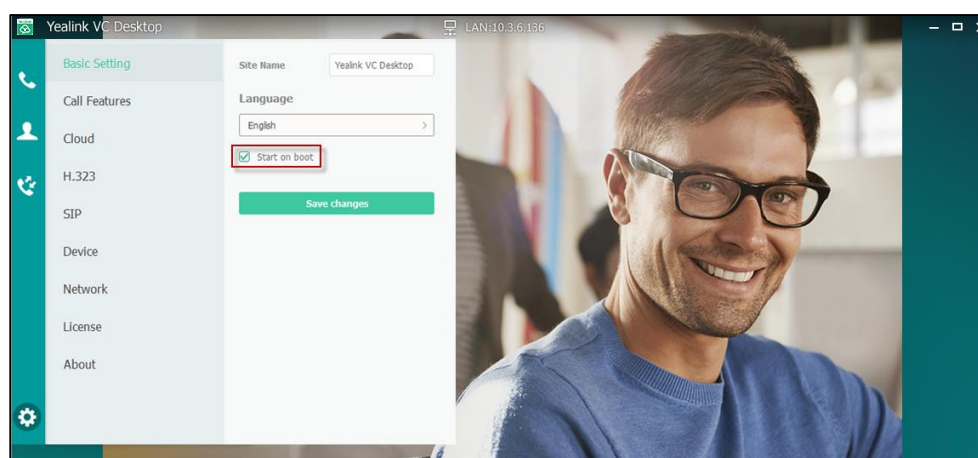
3. Click **Save changes**.

Start on Boot

To configure start on boot via the Yealink VC Desktop:

1. Click  -> **Basic Setting**.
2. Check **Start on boot** checkbox.

The Yealink VC Desktop will start automatically when your computer starts.



3. Click **Save changes**.

These settings take effect the next time you restart the computer.

Volume Settings

The ringer volume is adjustable when Yealink VC Desktop is idle. Besides, during a call, you can adjust the volume of microphone and speaker for Yealink VC Desktop. For more information, please refer to [Adjusting Your Microphone Volume](#) on page 53 or [Adjusting Your Speaker Volume](#) on page v. And the volume of speaker and microphone is also adjustable by your computer itself.

For best result, set the volume level of your computer to one-half the maximum volume before adjusting the volume.

To adjust the ringer volume:

You can adjust the ringer volume of the Yealink VC Desktop by adjusting the speaker volume of your computer.

Directory

Local contacts and Yealink Cloud contacts/YMS contacts are displayed in the directory window.

- **Local contacts:** You can manage local directory via Yealink VC Desktop. Besides, you can add up to 100 local contacts.
- **Yealink Cloud contacts:** If you log into the Yealink VC Desktop using Yealink Cloud account, Yealink Cloud directory appears in the directory window. Yealink cloud contacts are in Yealink Cloud directory. Note that only the cloud enterprise administrator can add, edit and delete Yealink Cloud contacts on the Yealink VC Cloud management service. On Yealink VC Desktop, you can only place calls to or search for the Yealink Cloud contacts. For more information on the Yealink VC Cloud management service, please refer to [Yealink VC Cloud Management Service Administrator Guide](#).
- **YMS contacts:** If you log into the Yealink VC Desktop using the YMS account, enterprise directory appears in the directory window. YMS contacts are in enterprise directory. Note that only the enterprise administrator can add, edit and delete YMS contacts on Yealink Meeting Server (YMS). On Yealink VC Desktop, you can only place calls to or search for the YMS contacts. For more information on Yealink Meeting Server, please refer to [Yealink Meeting Server Administrator Guide](#).

There are four types of YMS contacts:

- **User:** The users have YMS accounts. The enterprise administrator can create departments for users.
- **Room system:** The devices registered YMS accounts in the video meeting room.
- **Third party device:** The devices without YMS accounts.
- **VMR:** It is also called the permanent VMR. The enterprise administrator can determine whether to synchronize the permanent VMR to the Yealink VC Desktop.

This chapter provides operating instructions for directory. Topics include:

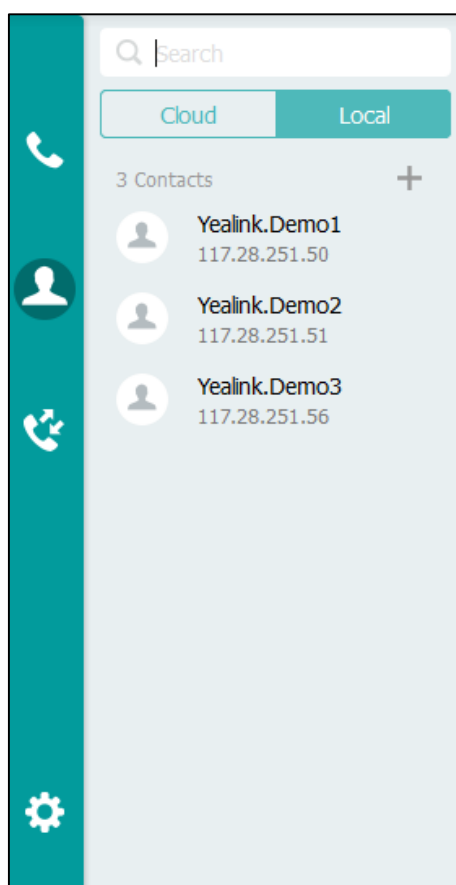
- [Adding Contacts to Local Directory](#)
- [Placing Calls to Contacts](#)
- [Editing Contacts in Local Directory](#)
- [Deleting Contacts in Local Directory](#)
- [Searching for Contacts](#)

Adding Contacts to Local Directory

When you add a contact to your local directory, only a contact name and number are required to enter for each new contact.

To add a local contact via the Yealink VC Desktop:

1. Click  -> **Local** ->  .



(Logging into the Yealink VC Desktop using Yealink Cloud accounts)


2. Enter the display name in the **Name** field.
3. Enter the number or IP address in the **Number 1** field.
4. Click **Add Number** to add more numbers. Up to 3 numbers can be added to a contact.

5. Click **Save**.

Placing Calls to Contacts

You can place a call to local contacts from the local directory. If you log into Yealink VC Desktop using Yealink Cloud accounts or YMS accounts, you can place calls to Yealink Cloud contacts or YMS contacts.



To place a call to the contact via the Yealink VC Desktop:

1. Click .
2. Select **Cloud/Enterprise** or **Local**.
3. Hover your mouse over a contact, select the number you want to dial.
If the contact's system does not support video, an audio call starts.

Editing Contacts in Local Directory

You can edit the contact's information after you create it.



To edit contacts via the Yealink VC Desktop:

1. Click  -> **Local**.
2. Hover your mouse over a contact. The contact details are displayed.
3. Click  to edit a contact.
4. Edit the contact's name and number.
5. Click **Save**.

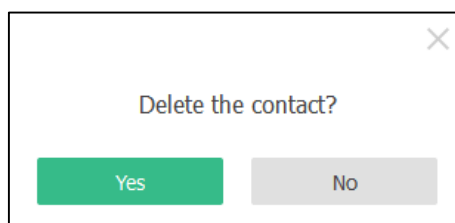
Deleting Contacts in Local Directory

You can delete contacts from the local directory.

To delete contacts via the Yealink VC Desktop:

1. Click  -> **Local**.
2. Hover your mouse over the local contact you want to delete. The contact details are displayed.
3. Click  to delete the local contact.

A dialog box pops up to ask if you confirm to delete the contact, shown as below:




4. Click **Yes** to delete the contact.

You can also click **No** to cancel the operation.

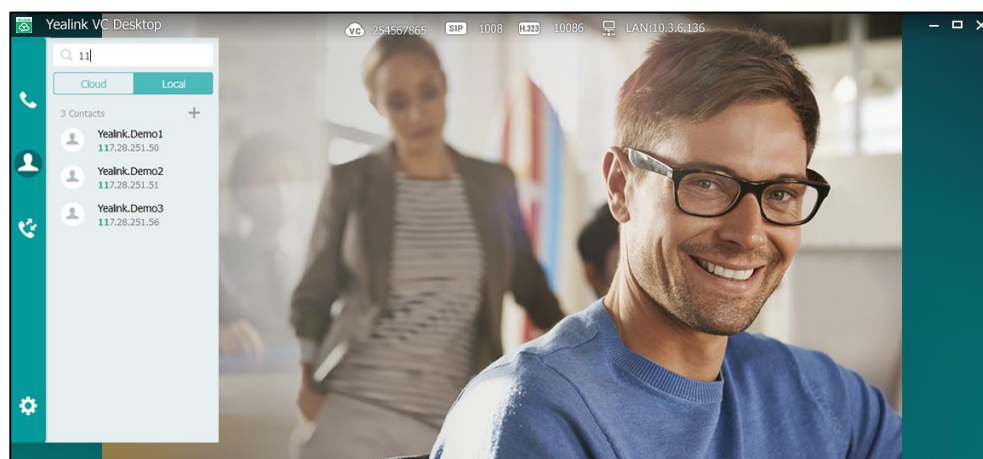
Searching for Contacts

You can enter a part of a key word to do the search to quickly find someone in your local directory, Yealink Cloud directory and enterprise directory.

To search for contacts via the Yealink VC Desktop:

1. Click .
2. Select **Cloud/Enterprise** or **Local**.
3. Enter a few or all characters of the contact name or numbers in the Search box.

As soon as you start entering in the search box, a search is performed as shown next:



(Logging into the Yealink VC Desktop using Yealink Cloud accounts)

Call History Management

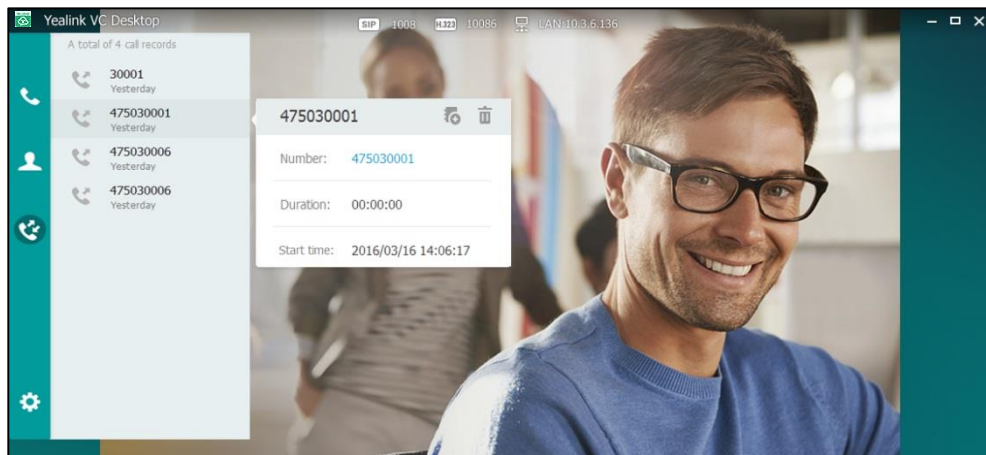
Call history includes incoming, outgoing and missed calls. The Yealink VC Desktop supports up to 100 history entries, including local entries and Cloud history entries.

Viewing Call History

To view call history via the Yealink VC Desktop:

1. Click .

2. Hover your mouse over the entry. The entry details are displayed as below:



Each entry in history list reports the following information:

- Remote party of the call. The display name appears, if available.
- Number.
- Call duration.
- The start time of the call.

Note

When the Yealink VC Desktop missed calls, a number icon (indicating the number of missed calls) will appear on . If you click (indicating 1 missed call), the number icon will disappear.

Placing Calls from the Call History

You can place a call by selecting an entry from your history list.

To place a call from the call history list:

1. Click .
2. Hover your mouse over the entry, select the number you want to dial.
If the contact's system does not support video, an audio call starts.



Deleting Entries from the Call History

To delete an entry from the call history list:

1. Click .
2. Hover your mouse over the entry. The entry details are displayed.
3. Click to delete the entry.

Adding Contacts to Local Directory from the Call History

To add a contact from the call history list:

1. Click .
2. Hover the mouse over the entry you want to add. The entry details are displayed.
3. Click .
4. Enter contact name in the **Name** field.


You can add more than one number for the contact. For more information, refer to [Adding Contacts](#) on page 42.

5. Click **Save**.

Call Protocol

The Yealink VC Desktop supports SIP and H.323 call protocols. You can configure which type is to be used when the Yealink VC Desktop is making calls. When the **Auto** call protocol is chosen, the Yealink VC Desktop preferentially uses the H.323 protocol to place calls. But if there is no available H.323 account on the Yealink VC Desktop, the Yealink VC Desktop will switch to use the SIP protocol.

To configure call protocol via the Yealink VC Desktop:

1. Click  -> **Call Features**.
2. Select desired type or **Auto** from the pull-down list of **Call protocol**.
3. Click **Save changes**.

Call Bandwidth


Bandwidth settings influence the quality of negotiated video. You can adjust the quality of negotiated video by configuring the bandwidth.

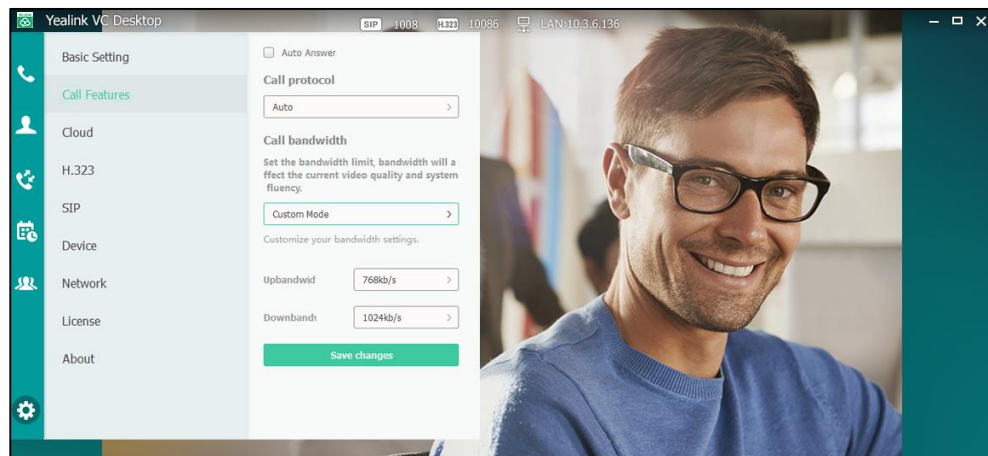
The following table summarizes the supported bandwidth modes on the Yealink VC Desktop:

Bandwidth Mode	Recommended Scenario	Uplink Bandwidth	Downlink Bandwidth
Smooth	To improve the fluency, it uses lower bandwidth and reduces video quality.	384kb/s Maximum quality of negotiated video 360p/15fps	512kb/s Maximum quality of negotiated video 720p/15fps
Standard (Default)	Recommended mode. It ensures the fluency of the system while maintaining good video quality.	768kb/s Maximum quality of negotiated video 720p/20fps	1024kb/s Maximum quality of negotiated video 720p/30fps

Bandwidth Mode	Recommended Scenario	Uplink Bandwidth	Downlink Bandwidth
HD	Best video quality, but it needs higher system resources and video bandwidth usage.	2000kb/s Maximum quality of negotiated video 720p/30fps	2000kb/s Maximum quality of negotiated video 720p/30fps
Custom	Advanced users can customize the bandwidth settings.	256 kb/s, 384 kb/s, 512kb/s, 768kb/s, 1024 kb/s, 1280kb/s, 1500 kb/s, 2000kb/s	256 kb/s, 384 kb/s, 512kb/s, 768kb/s, 1024 kb/s, 1280kb/s, 1500 kb/s, 2000kb/s

To configure the call bandwidth via the Yealink VC Desktop:

1. Click  -> **Call Features**.
2. Select the desired bandwidth mode from the pull-down list of **Call bandwidth**.
If **Custom Mode** is selected, select the desired bandwidth in the corresponding field.



3. Click **Save changes**.

Noise Block

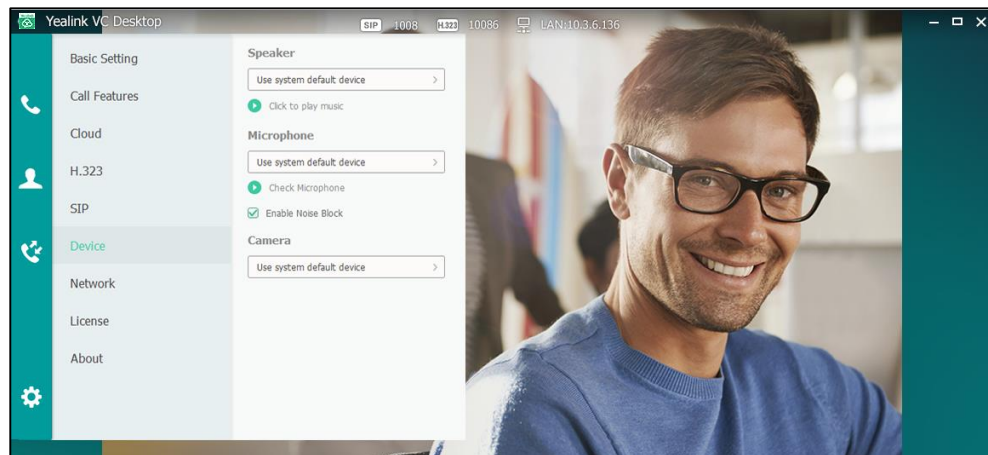
The impact noises in the room are picked-up, including paper rustling, coffee mugs, coughing, typing and silverware striking plates. These noises, when transmitted to remote participants, can be very distracting.

You can enable the noise block to suppress these noises.

To enable the noise block via the Yealink VC Desktop:

1. Click  -> **Device**.
2. Check the **Enable Noise Block** checkbox.

It is checked by default.



3. Click **Save changes**.

Using Yealink VC Desktop

You can use the Yealink VC Desktop to place calls, answer calls or reject calls and use the in-call toolbar to change audio and video devices or change the video layout. When you log into the Yealink VC Desktop using YMS accounts, you can also use **Conference Schedule** and **Meet Now** features.

This chapter provides basic operating instructions for the Yealink VC Desktop. Topics include:

- [Placing Calls](#)
- [Answering or Rejecting Calls](#)
- [Auto Answer](#)
- [Ending Calls](#)
- [Using the In-call Toolbar](#)
- [Initiating Presentations](#)
- [Conference Schedules \(YMS Account\)](#)
- [Meet Now \(YMS Account\)](#)
- [Permanent Virtual Meeting Room \(YMS Account\)](#)
- [Conference Management \(YMS Account\)](#)

Placing Calls

The Yealink VC Desktop supports two kinds of call types:

- Audio call
- Video call

To get a better sound quality, it is recommended that you should connect a headset as the audio device.


If the far site does not support video, an adaptive audio call starts. You can search and dial a contact from the call history and directory. For more information, refer to [Directory](#) on page 41 and [Call History Management](#) on page 44.

If the Yealink VC Desktop fails to establish the call, you can troubleshoot the problems according to the following prompts:

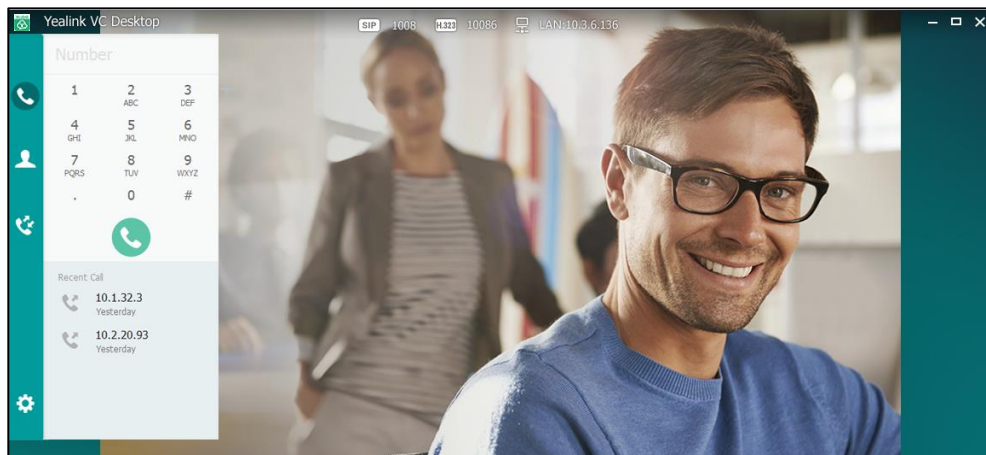
Prompts	Description
Call Failed Busy Here	<ul style="list-style-type: none">• Remote endpoint rejects your SIP call.• Remote endpoint does not answer your SIP call.

Prompts	Description
	<ul style="list-style-type: none"> Remote endpoint has reached its maximum sessions when you place a SIP call.
Call Failed Remote Endpoint Refused Call	<ul style="list-style-type: none"> Remote endpoint rejects your H.323 call Remote endpoint does not answer your H.323 call. Remote endpoint has reached its maximum sessions when you place an H.323 call.
Call Failed Network Broken	Local network is disconnected.
Call Failed Time Out	<ul style="list-style-type: none"> Remote endpoint network anomaly Remote endpoint is powered off.

To place a call via dialing:

1. Click .
2. Enter the calling information in the input box. You can use any of the following number formats:
 - 1008 (SIP user name, H.323 user name, Yealink Cloud account and YMS account)
 - www.yealink.com (FQDN name)
 - 1027@10.2.1.48 (<SIP_username>@<domain.com>)
 - 1234@10.2.1.171 (conference ID@IP address)
 - 10.2.1.171##1071 (IP address##conference ID)
 - 10.11.12.13(IP address)

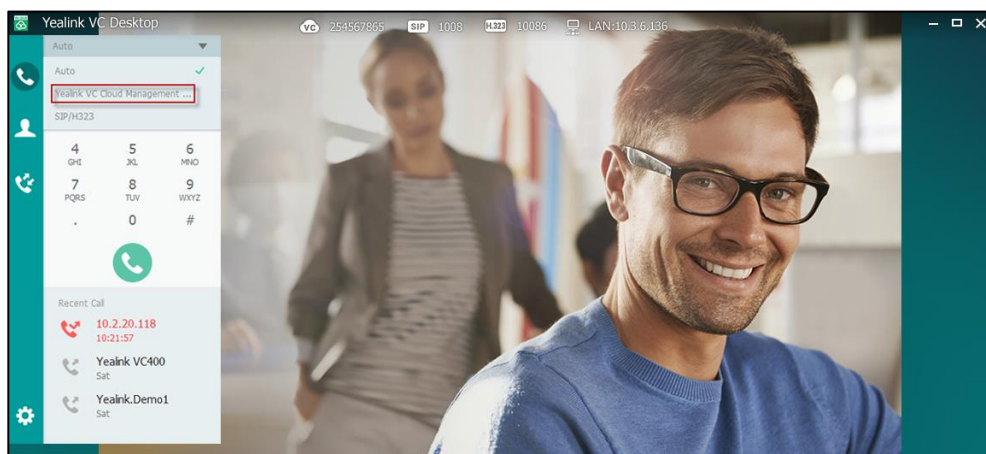
- 1234@10.11.12.13(<SIP user name>@<IP address>)



You can also enter the few continuous characters of the contact name, phone number to perform search. Then, a search is performing in the directory and history lists.

If you log into the Yealink VC Desktop using the Yealink Cloud account or YMS account and register SIP/H.323 account, the pull-down list of **Auto** appears. You can select the contact in desired directory to place a call in the pull-down list of **Auto**.

If you set the type of contact to **Auto**, the system priority of selection is as follows: Yealink VC Cloud Management/Yealink Meeting Server>H.323>SIP. For example, if a contact is saved in both Yealink Cloud directory/enterprise directory and local directory, Yealink VC Desktop will dial the number from Yealink Cloud directory/enterprise directory preferentially.



(Logging into the Yealink VC Desktop using Yealink Cloud accounts)

3. Click  .

Note

If a Yealink Cloud contact is in a same enterprise directory as you, you can only enter an extension number (the last four Cloud number) to place a call. Otherwise, a full 9-digit Cloud number is required to place a call to.

Answering or Rejecting Calls

If there is an incoming call, a call notification will pop up to tell you who is calling you, and you can choose to answer or reject it.

To answer a call:

1. Click  to answer the call.

To reject a call:

1. Click  to reject the call.

The Yealink VC Desktop comes back to the main window.


Note

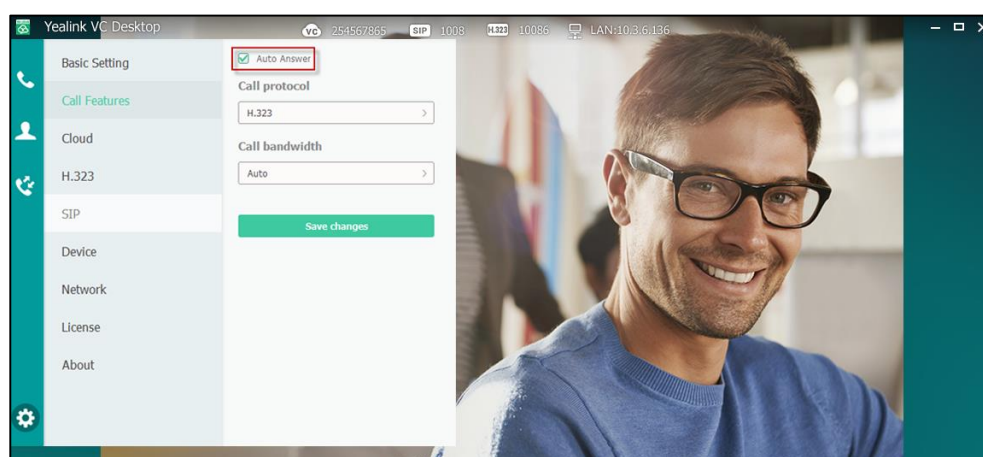
If you receive a call from the one who is both your Cloud contact and your local contact, the name priority of the call notification is as follows: Local contacts > Yealink Cloud contacts > YMS contacts.

Auto Answer

You can enable the auto answer feature for the Yealink VC Desktop to answer the incoming call automatically.

To configure auto answer via the Yealink VC Desktop:

1. Click  -> **Call Features**.
2. Check **Auto Answer** checkbox to enable the auto answer feature.




3. Click **Save changes**.

Ending Calls

Either participant can end a call. When the call ends, the call window will close automatically.

To end a call:

1. Hover your mouse over the bottom of the far-site video image to show the in-call toolbar.
2. Click  to hang up.

Using the In-call Toolbar

During a call, you will see the in-call toolbar on the bottom of the call window. The in-call toolbar is temporarily showed when you establish a call. To display the in-call toolbar again, move your mouse.



To show in-call toolbar during a call:




1. Hover your mouse over the bottom of the far-site video image to show the in-call toolbar.

Adjusting Your Microphone Volume

You can adjust your microphone volume or mute it.

To adjust the microphone volume when the Yealink VC Desktop is during a call:


1. Hover your mouse over the bottom of the far-site video image to show the in-call toolbar.
2. Hover your mouse over  .
Use the volume slider to adjust the volume.
3. To mute the microphone, click  .


The icon  will changes to the icon  on the in-call toolbar, and the icon  will appear on the bottom-right of the video image. As a result, you can hear the far-site voice, while the far site cannot hear you.


Adjusting Your Speaker Volume




You can adjust your speaker volume or mute it.

To adjust the speaker volume when the Yealink VC Desktop is during a call:

1. Hover your mouse over the bottom of the far-site video image to show the in-call toolbar.
2. Hover your mouse over  .


Use the volume slider to adjust the volume. If the volume is minimum, the icon will change to .

3. To mute the speaker, click .

When your speaker is muted during a call, the icon  will change to the icon  on the in-call toolbar, and the icon  will appear on the bottom-right of the local video image. As a result, you cannot hear the far-site voice, while the far site can hear you.

Changing Audio and Video Devices

To change devices during a call:

1. Hover your mouse over the bottom of the far-site video image to show the in-call toolbar.
2. Click  to change audio and video devices.

You can select speakers, microphones and cameras. For more information on how to change devices, refer to [Audio and Video Device](#) on page 14.


Note

During a call, if you connect new devices, the Yealink VC Desktop will switch to the latest device (speakers, microphones and cameras) automatically.

Turning off Your Video

You can stop Yealink VC Desktop from automatically transmitting your video image during a video call. However, you cannot turn off the far-site video image.


To turn off your video during a call:

1. Hover your mouse over the bottom of the far-site video image to show the in-call toolbar.
2. Click  to turn off your video image.

Turning on Your Video

You can turn on your video to resume showing video image.


To turn on your video during a call:

1. Hover your mouse over the bottom of the far-site video image to show the in-call toolbar.
2. Click  to turn on your video.

Sending DTMF Tones

During a call, the Yealink VC Desktop allows you to use the local dial pad to send DTMF tones. The DTMF tones are sent using the configured method. For more information, please refer to [DTMF](#) on page 32.

To send DTMF tones during a call:

1. Hover your mouse over the bottom of the far-site video image to show the in-call toolbar.
2. Hover your mouse over  to open the dial pad.
3. Click the buttons to send the DTMF tones.

Changing the Video Layout

During a video call, the far-site video image displays in a large window, the local site displays in a small window in the top-right corner of the window by default.

Swapping the Video Images


To swap the video image:

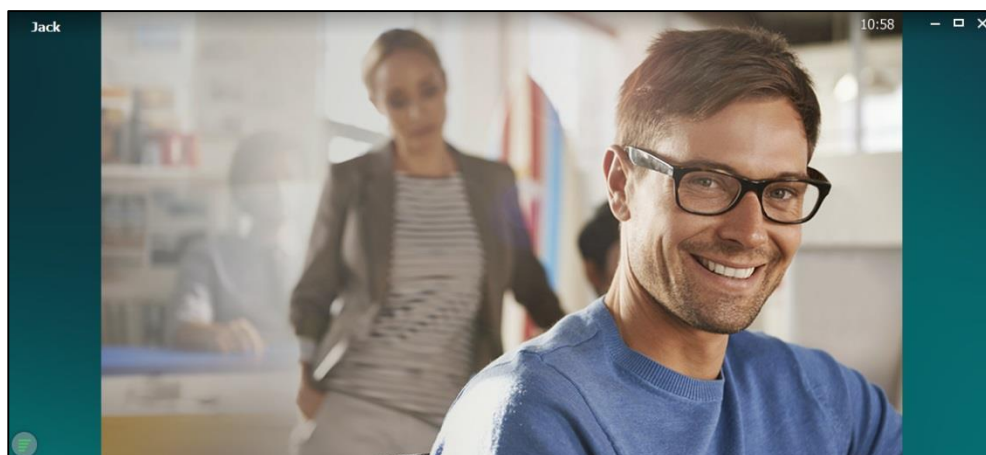
1. Double-click the video image in small window to swap the windows that the two site display in.

The local video image appears in a large window. While the far-site video image appears in a small window in the top-right corner of the window.

Showing or Hiding the Video Image in Small Window

To show or hide the video image in the small window:

1. Hover your mouse over the bottom of the video image in a large window to show the in-call toolbar.
2. Click  to hide or display the video image in small window.





Maximizing Application Window

During a video call, you can maximize the Yealink VC Desktop application window.

To maximize Yealink VC Desktop application window during a call:

Do one of the following to maximize application window:

- Hover your mouse over the bottom of the far-site video image to show the in-call toolbar. And then click  on the in-call toolbar.
- Click  on the top-right of the call window.
- Double-click the video image in a large window.



The video image is displayed in full screen.

Restoring Application Window

During a video call, you can restore the Yealink VC Desktop application window.

To restore Yealink VC Desktop application window during a call:

Do one of the following to restore application window:

- Click  on the in-call toolbar.
- Click  on the top-right of the call window.
- Double-click the video image in a large window.



Initiating Presentations


When you initiate presentations, the far site can see the contents (including slides, spreadsheets, or any other types of files) you selected on your Windows desktop at the same time, including the cursor. But the far site cannot control the cursor or edit the file. Note that only one presentation can be initiated at a time and a presentation initiated later will replace the previous one.

Before you initiate presentations, make sure that your content is ready and dual-stream protocol is enabled on both devices. For more information, please refer to [Dual-Stream Protocol](#) on page 33.

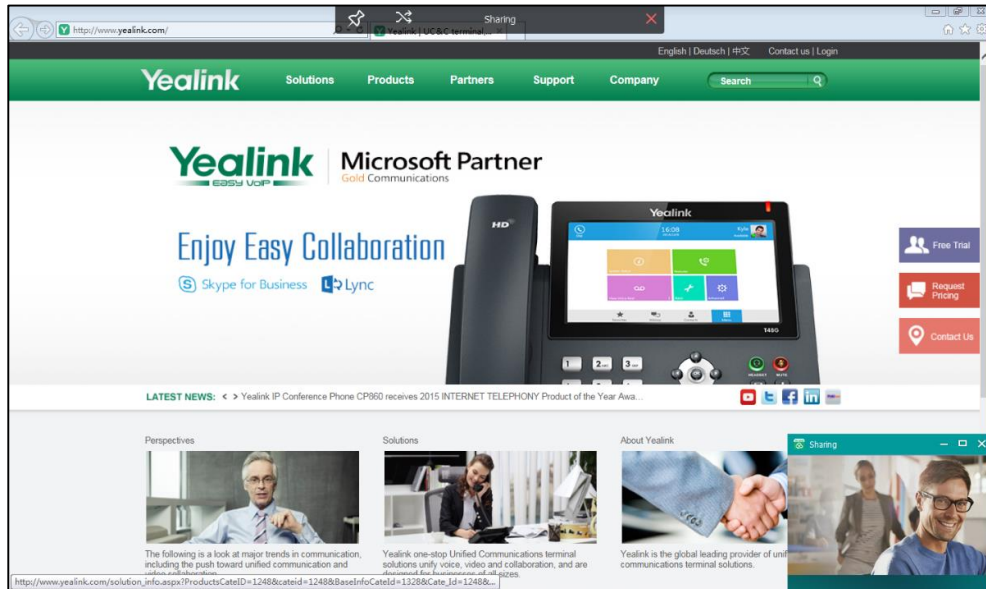
If you want to initiate presentations using multiple monitors, make sure that your computer supports multiple monitors and you have configured it properly. For more information, please refer to network resources.

To initiate presentation during a call:

1. Hover your mouse over the bottom of the far-site video image to show the in-call toolbar.
2. Hover your mouse over .
3. Do one of the following:
 - To share your windows desktop, select  (DISPLAY) in the Screen Share menu.

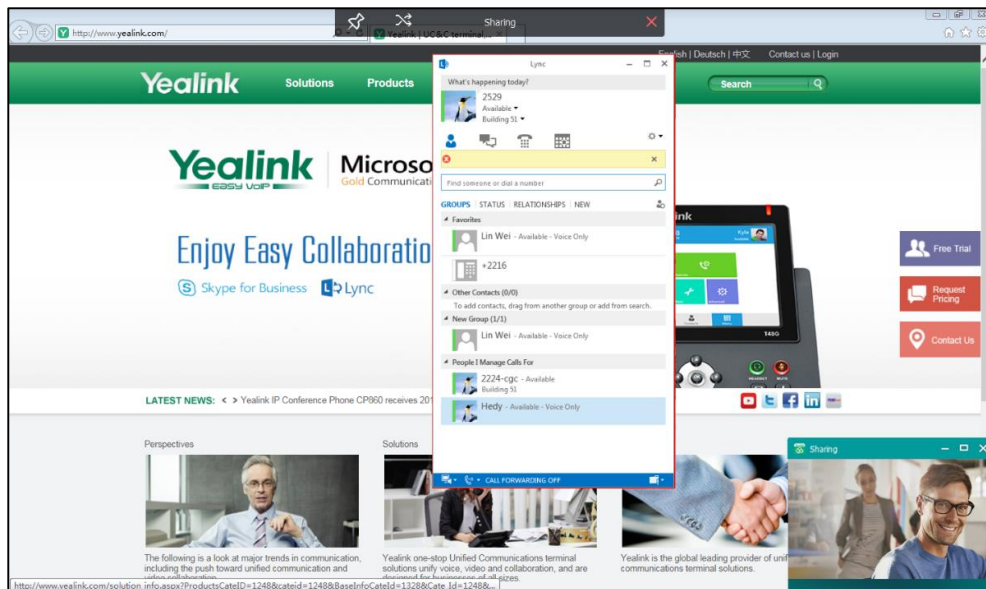
When your computer uses multiple monitors, you can also select any one of the monitors icon  to share the windows desktop.


The far-site video image will be in a small window and appear in the bottom-right of the window.



- To share a running application, select a running application in the Screen Share menu.



You can share a running application. The far-site video image will be in a small window and appear in the bottom-right of the window.



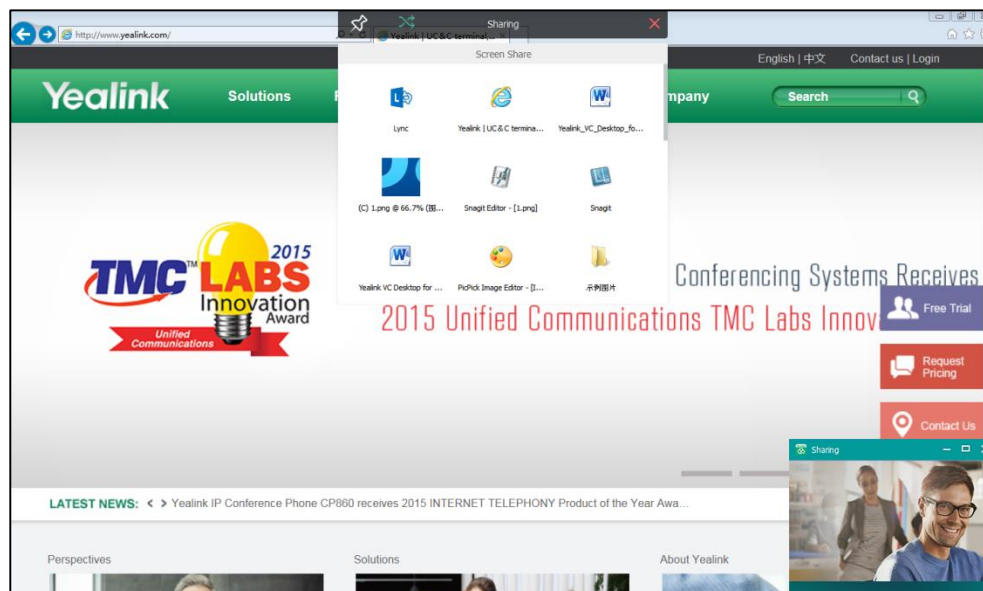
If you close the far-site video image during the presentation, you can click  in the taskbar to restore.


The sharing toolbar appears in the top of the windows desktop.

In the process of presentation, you can do the following:

- Click  to lock the sharing toolbar to avoid hiding automatically.
- Hover your mouse over , and then change the shared content in the Screen Share menu.

The content includes other monitors' windows desktop or a running application.



4. Click  to exit presentation.

Conference Schedules (YMS Account)


When you log into Yealink VC Desktop using YMS accounts, you can use **Conference Schedule** feature. You can view the scheduled conferences or join conferences.

If you want to schedule conferences or edit scheduled conference information, you should use Yealink Meeting Server (YMS) or Microsoft Outlook software. For more information, please refer to [Yealink Meeting Server User Guide](#).

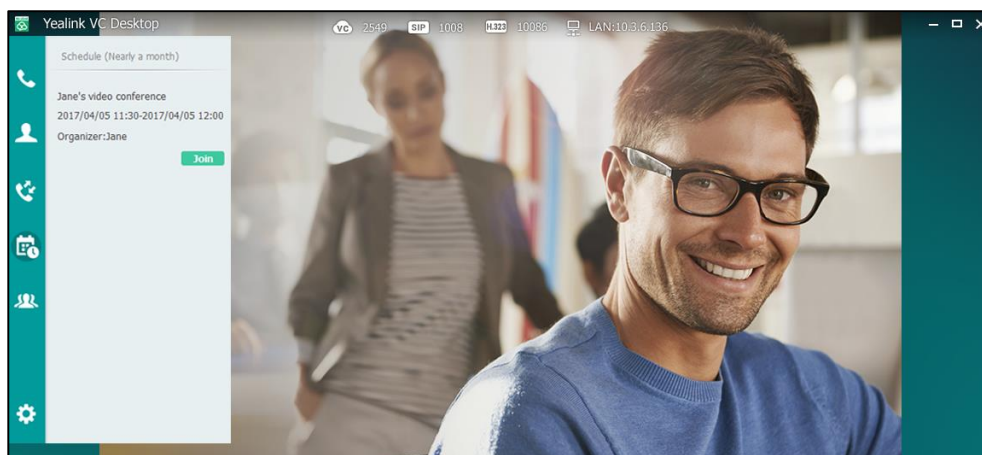
Viewing Conference Schedules

If the conference organizer edits the scheduled conference content (e.g., time and participants) or cancel the scheduled conference via Yealink Meeting Server or Microsoft Outlook software after the conference organizer has sent the invitation, conference schedules will update in real time in Yealink VC Desktop. Expired conferences will not be displayed.

To view conference schedules:

1. Click  to view conference schedules.



You can view the upcoming or ongoing conference near a month.



2. Click the desired conference.

You can view time, conference ID, password, organizer and participants.

Note

When Yealink VC Desktop has unread conferences, the icon  will turn to .

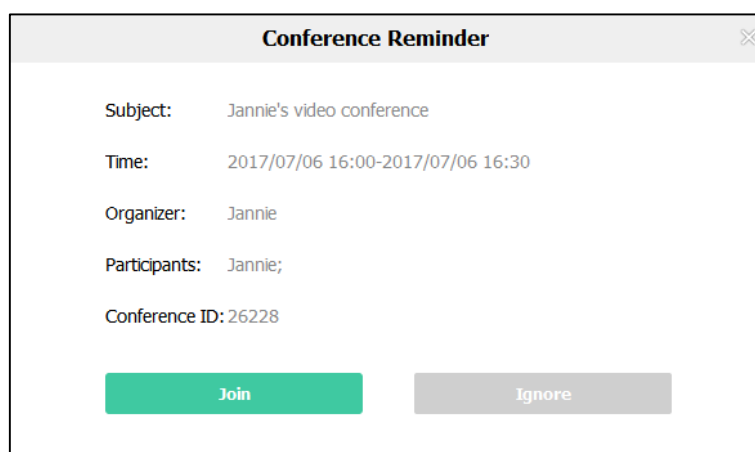
Joining a Scheduled Conference

You can join a scheduled conference in following three ways:

- **Joining a scheduled conference from a conference reminder**
- **Joining a scheduled conference from a conference schedule**
- **Dialing to join a scheduled conference**

Joining a Scheduled Conference from a Conference Reminder

A reminder pop-up is displayed 5 minutes before the conference starts. The reminder shows the main information of the scheduled conference, including subject, time, organizer, participants and conference ID.



If you receive a conference reminder, you can:


- Click **Join** to join the conference.
- Click **Ignore** to remove the reminder from the window and stop all future reminders for this scheduled conference.

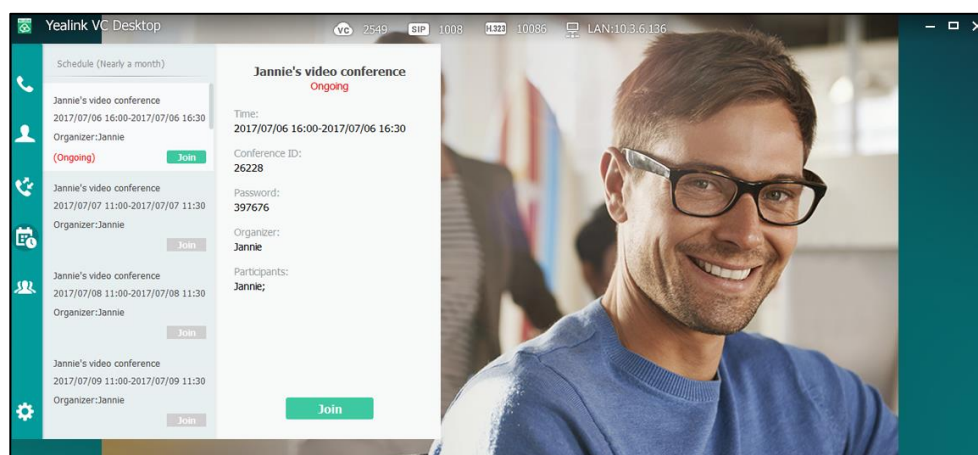
Note

When Yealink VC Desktop is in a call, the reminder will not pop up. After Yealink VC Desktop finishes the call and the scheduled conference is ongoing, the reminder will pop up. But if the scheduled conference ends, the reminder will not pop up.

Joining a Scheduled Conference from a Conference Schedule

To join a conference from a conference schedule:

1. Click .
2. Select the desired conference in the conference list, click **Join**.



Note

By default, you can join a scheduled conference that is about to take place in 5 minutes or less. The enterprise administrator can configure the time when participants can join the conference. For more information, please contact your enterprise administrator.

Dialing to Join a Scheduled Conference

If you schedule a conference or you are invited to join a scheduled conference, you can obtain the conference information in following ways:

- Invitee whose YMS account is associated with an email address will receive an email, which includes the IP address, conference ID, conference password and the way of joining a scheduled conference.

The following is an example of the email:

Hello,
Test invites you to join video conference!

Subject: Test
Time: 2017-11-24 15:30:00 ~ 2017-11-24 16:00:00 (UTC+08:00)
Location:
ID: 72620
Password: 355321


The way to join conference:

- 1) One-button to join conference from Yealink VC device which receives conference reminder.
- 2) The device which has registered YMS account, please follow the voice prompt to enter conference ID 72620 & password 355321 , and end with # key.
- 3) The device which hasn't registered YMS account, please dial 110.87.96.13 or 10.86.0.199 first, then follow the voice prompt to enter conference ID 72620 & password 355321, and end with # key.
- 4) To join from a SIP device, please dial [72620**355321@110.87.96.13](tel:72620**355321@110.87.96.13) or [72620**355321@10.86.0.199](tel:72620**355321@10.86.0.199) and join the conference.
- 5) To join from a H.323 device, please dial 110.87.96.13##72620**355321 or 10.86.0.199##355321**355321 and join the conference.
- 6) To join from a browser, please access <https://110.87.96.13:8442/#/login?t=qOWg0HW1SERxZQuPh+ZaNQ==> or <https://10.86.0.199:8442/#/login?t=qOWg0HW1SERxZQuPh+ZaNQ==> and join the conference.

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- Yealink VC Desktop will display conference information, which includes conference ID and conference password. For more information, please refer to [Viewing Conference Schedules](#) on page 58.
- Contact the conference participants.

To dial to join the scheduled conference:

1. Click .
2. Do one of the following:
 - If you register a YMS account, dial the **conference ID** to join the conference.
Obtain the conference information from Yealink VC Desktop, your email or the other conference participants.
 - If you do not register a YMS account, dial the **IP address of server** to join the conference.
Obtain the conference information from the other conference participants.

- To join from a SIP device, dial **conference ID** conference password@ IP address of server** or **IP address of server##conference ID** conference password** to join the conference.
Obtain the conference information from your email and the other conference participants.
- To join from a H.323 device, dial **IP address of server##conference ID** conference password** to join the conference.
Obtain the conference information from your email and the other conference participants.

Note

If you fail to dial to join a scheduled conference, please refer to [General Issues](#) on page 70.

Meet Now (YMS Account)

When you log into Yealink VC Desktop using YMS accounts, you can use **Meet Now** feature.

Initiating a Meet Now Conference

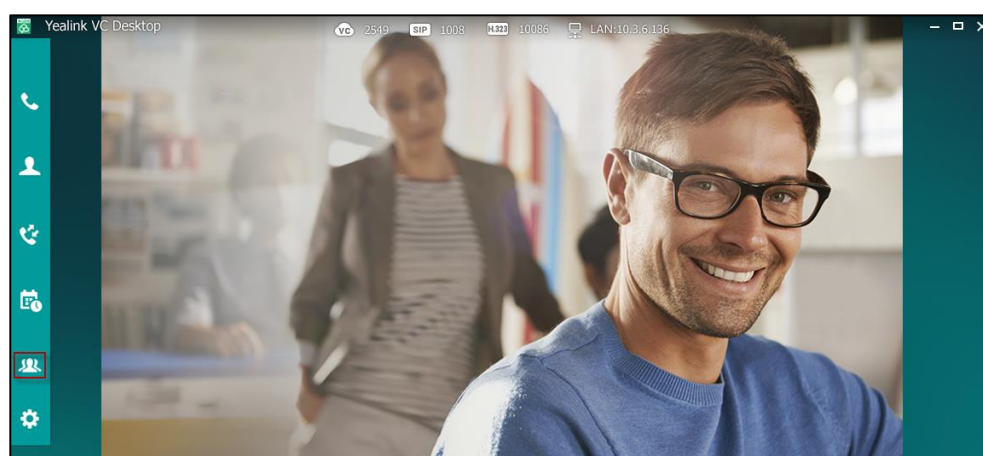
You can initiate a meet now conference at any time.

In meet now conference, if you receive a call from YMS contacts, a reminder will prompt that you can allow or refuse the contact to join the conference.

To initiate the meet now conference via Yealink VC Desktop:

1. Click  .


The conference is initiated successfully.



Dialing to Join a Meet Now Conference

In the ongoing meet now conference, you can dial to join a meet now conference. And you can obtain the conference information from the participants of meet now conference.

To dial to join a meet now conference:

1. Click  .
2. Do one of the following:
 - If you register a YMS account, dial the **conference ID** to join the conference.
 - To join from a SIP device, dial **conference ID** @ IP address of server** or **IP address of server##conference ID** to join the conference.
 - To join from a H.323 device, dial **IP address of server##conference ID** to join the conference.

Permanent Virtual Meeting Room (YMS Account)

When you log into Yealink VC Desktop using YMS accounts, you can use the permanent VMR feature.


The enterprise administrator can configure the permanent VMR via the Yealink Meeting Server. You can join the permanent VMR at any time, without a reservation.

Joining a Permanent Virtual Meeting Room from Enterprise

Directory

The enterprise administrator can determine whether synchronize the permanent VMR to the Yealink VC Desktop. It is enabled by default.

To join a permanent VMR from enterprise directory:

1. Click  .
2. Select **Enterprise**.
3. Hover your mouse over a permanent VMR, select the number you want to dial.

Dialing to Join a Permanent Virtual Meeting Room

Do one of the following to dial to join a permanent VMR.

- a) If you register a YMS account, dial the **conference ID** to join the permanent VMR.
- b) If you do not register a YMS account and the permanent VMR requires no password:
 - To join from a SIP device, dial **conference ID**@IP address of the server** or **IP address of the server ##conference ID** to join the permanent VMR.
 - To join from a H.323 device, dial **IP address of the server ##conference ID** to join the permanent VMR.
- c) If you do not register a YMS account and the permanent VMR requires a password:

- To join from a SIP device, dial **conference ID** conference password@ IP address of server** or **IP address of the server ##conference ID**conference password** to join the permanent VMR.
- To join from a H.323 device, dial **IP address of the server ##conference ID**conference password** to join the permanent VMR.

Conference Management (YMS Account)

This chapter provides basic operating instructions for managing conference. To use this feature, you should log into Yealink VC Desktop using YMS accounts.

The conferences include scheduled conferences, meet now conferences and permanent Virtual Meeting Room (VMR).

In the conference, you can do the following:

- Adjust your microphone volume([Adjusting Your Microphone Volume](#) on page 53)
- Adjust your speaker volume ([Adjusting Your Speaker Volume](#) on page 53)
- Change audio and video devices ([Changing Audio and Video Devices](#) on page 54)
- Turn off your video ([Turning off Your Video](#) on page 54)
- Turn on your video ([Turning on Your Video](#) on page 54)
- Send DTMF tones ([Sending DTMF Tones](#) on page 54)
- Change the video layout ([Changing the Video Layout](#) on page 55)
- Maximize application window ([Maximizing Application Window](#) on page 55)
- Restore application window ([Restoring Application Window](#) on page 56)
- View call statistics ([Viewing Call Statistics](#) on page 69)
- Initiate presentations ([Initiating Presentations](#) on page 56)
- Invite conference participants
- Apply for speaking
- Leave the conference

Inviting Conference Participants


In **Discussion mode** scheduled conferences/permanent VMRs or meet now conferences, all participants can invite conference participants.

In **Training mode** scheduled conferences/permanent VMR, only moderators (or the organizer) can invite conference participants, other participants cannot.

Note

You are not allowed to invite other conference participants if you join the conference by dialing a URI.

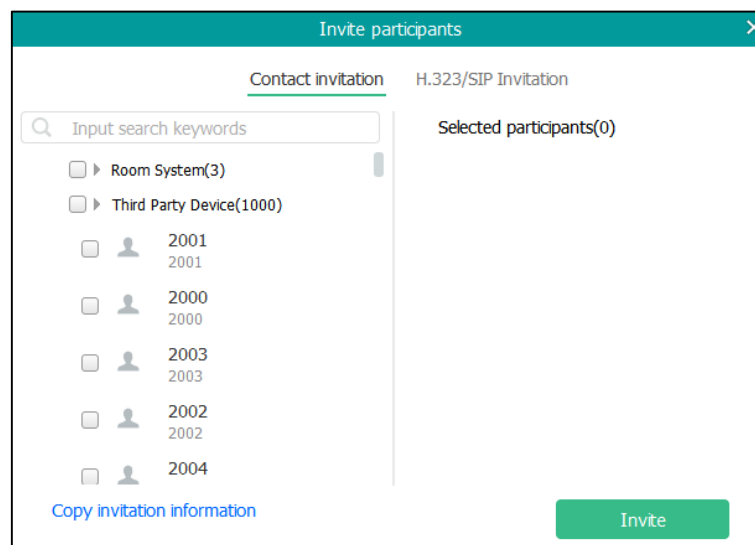
To invite conference participants via Yealink VC Desktop:

1. Hover your mouse over the bottom of the far-site video image to show the in-call toolbar.
2. Click  .

Note

If you are the only one conference participant, you can click **click invite**.

3. Do one of the following:
 - Select **Contact invitation** to invite conference participants.
You can select the desired YMS contact in the YMS contacts list.



You can also enter a few or all characters of the YMS contact name or account in the Search box to search a contact.

Click **Copy invitation information**, and then paste the information to send the participants you want to invite.

Click **Invite** to call the selected contacts.

- Select **H.323/SIP Invitation** to invite conference participants.
Select the desired type from the pull-down list:
 - If you select **H.323**, enter the IP address or H.323 account to invite the conference participants.
You can also enter **conference ID** conference password @IP address of server** or **IP address of server##conference ID**conference password** to invite other MCUs. Obtain the conference information from the conference participants or your email address.
 - If you select **SIP**, enter the IP address to invite the conference participants.
You can also enter **conference ID** conference password @IP address of server** or **IP address of server##conference ID**conference password** to invite other MCUs. Obtain the conference information from the conference participants or your email address.

Click **Call**.


Note


If you fail to invite participants, follow the prompt to find the solution or contact your enterprise administrator.

Applying for Speaking

If you join the **Training mode** scheduled conferences/permanent VMRs, all guests are muted automatically except moderators (or the organizer), guests need to wait for the moderator to appoint lecturers. If guests want to speak, they should apply for speaking. Only when the moderator allows the application, can they speak freely.

To apply for speaking via Yealink VC Desktop:

1. Join the **Training mode** scheduled conferences/permanent VMRs, the top-middle of guests' call windows prompts "You are muted by moderator".
2. Hover your mouse over the bottom of the far-site video image to show the in-call toolbar.
3. Click  to apply for speaking.


The  icon appears on the top left of your video image.

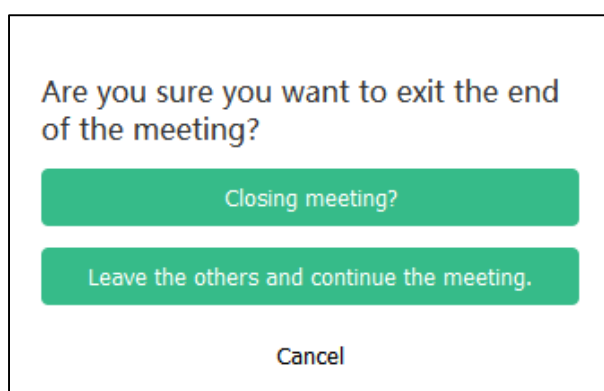
The moderator will deal with the application on Yealink Meeting Server. For more information, please refer to [Yealink Meeting Server User Guide](#).

Leaving the Conference

All participants can leave the scheduled conference, the permanent VMR or meet now conference at any moment.

To leave the conference via Yealink VC Desktop:

1. Click  to leave a conference.
 - For the moderator (or organizer), select **Leave the others and continue the meeting**, other participants remain connected.




- For other participants, you leave a conference directly.

Ending the Conference

In scheduled conference, the permanent VMR or meet now conference, Only the moderator (or organizer) can end the conference.

To end the conference via Yealink VC Desktop:

1. Click .
2. Select **Closing meeting?**, all participants leave the conference.

Troubleshooting

This chapter provides general troubleshooting information to help you solve problems you might encounter when using your VC Desktop.

Troubleshooting Methods

The Yealink VC Desktop can provide feedback in two forms, they are packets and call statistics, which can help you to find the problem more easily and then solve it.

You can check the working status in the following two ways and find the fault cause quickly:

- [Capturing Packets](#)
- [Viewing Call Statistics](#)

Capturing Packets

You can capture packets using the Ethernet software, and then analyze it to troubleshoot problems.

To capture packets using the Ethernet software:



Use Sniffer, Ethereal or Wireshark software to capture the signal traffic.

Viewing Call Statistics

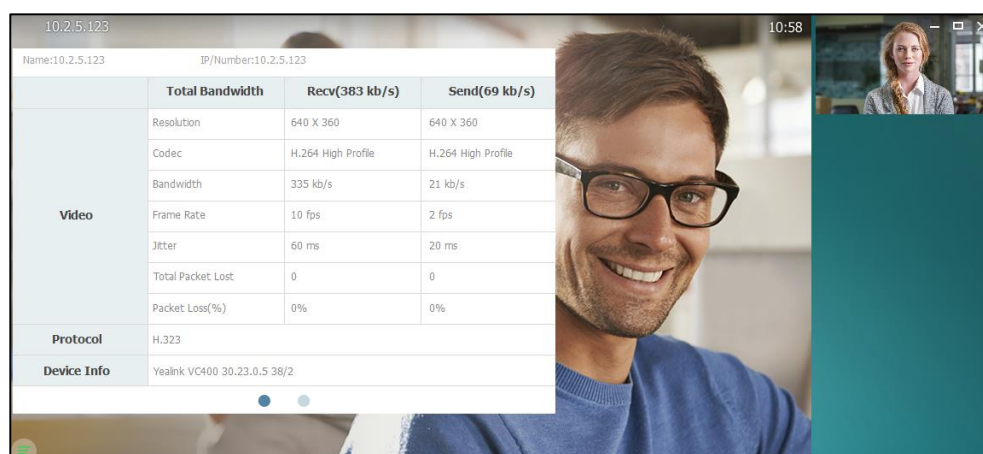
If voice quality is poor during a call, you can enter the Call Statistics screen to view the current status of the call to find out the reason.

The call statistics mainly contain the parameters about audio, video and share. You can know about the call quality by viewing codec, bandwidth, total packet lost and other parameters. For example, when a delay occurs or the video has a 'mosaic' look, you can view the total packet loss to check whether the packet has been lost.

To view call statistics during a call:

1. On the lower-left of your screen, hover the mouse over  .
The  icon changes according to your network signal strength.

2. (Optional) Click  to turn to the next page.



You can enter the view call statistics screen during an active call. Information includes:

- **Total Bandwidth:** Receive Bandwidth and Send Bandwidth.
- **Video: Resolution,** Codec, Bandwidth, Frame Rate, Jitter, Total Packet Lost, Packet Loss (%).
- **Audio:** Codec, Bandwidth, Sample Rate, Jitter, Total Packet Lost, Packet Loss (%)
- Protocol used during a call.
- Device information of the far site.
- **Share:** Resolution, Codec, Bandwidth, Frame Rate.

Troubleshooting Solutions

This chapter provides general troubleshooting solutions to help you solve the problems you might encounter when using your VC Desktop.

If problems you encounter are not mentioned in this chapter, you can contact your distributor or Yealink FAE.

General Issues

Why does the Yealink VC Desktop fail to call the far site?

- Check whether the local network is available.
- Check whether the far-site network is available.
- Check whether the accounts have been registered correctly, and the Yealink VC Desktop uses the appropriate account to call the far site.
- Ensure that the number you are calling is correct.
- If you log into the Yealink VC Desktop using the Yealink Cloud account or YMS account and register SIP/H.323 account, ensure that you select the right type of contact to place a call.
- Check whether the far site rejects your call.

- Check whether the firewall blocks the inbound traffics from the other site.
- Check whether the far site has already up to maximum call-in limitation.
- Ensure that the call protocol is supported by both sites. For more information on call types, refer to [Call Protocol](#) on page 46.

Why is activation unsuccessful?

- Check whether the local network is available.
- Check whether the activation code you entered is wrong.
- Check whether the activation code has been activated on 3 computers.

Why does the Yealink VC Desktop fail to update?

- Check whether the local network is available.
- Check whether the file for updating is wrong.
- Check whether the file for updating is limited by the antivirus software.

Why does the registration fail?

- Wait for 3 minutes or longer, and then turn off the gatekeeper or SIP registration. Then turn it on again.
- Change the H.323 name and H.323 extension and then register again.

Why does the Yealink VC Desktop fail to join conference from conference schedule?

- Check whether the local network is available.

Why does the Yealink VC Desktop fail to join conference?

- Check whether the conference is expired.
- Check whether the conference password is wrong.
- Check the current time is more than 5 minutes before its scheduled starting time.

By default, you can join a scheduled conference that is about to take place in 5 minutes or less. The enterprise administrator can configure the time when participants can join the conference. For more information, please contact your enterprise administrator.

Why does the Yealink VC Desktop leave the conference automatically when the conference is ongoing?

- Checks whether more than one endpoint registered the same YMS account join the same conference. The conference only allows one of them to join the conference, the former endpoint which joined the conference will leave the conference automatically.

Camera Issues

Why is the video quality bad?

- Ensure that the resolution of the video device and the computer have been configured appropriately.
- Check whether the packet has been lost. For more information on packet loss, refer to [Viewing Call Statistics](#) on page 69.
- Avoid high-intensity indoor light or direct sunlight on the camera.

Video & Audio Issues

Why cannot I hear the voice during a call?

- Ensure that that an available audio output device is selected.
- Ensure that the volume is set to the proper level.
- Check whether the far site is muted.

Why is the voice quality poor?

Users may receive poor voice quality during a call, such as intermittent voice, low volume, echo or other noise. But it is difficult to diagnosis the root causes of poor voice quality. The possible reasons are:

- Users sit too far from or too near to the microphone.
- The audio pickup device is moved round frequently.
- Intermittent voice is probably caused by voice packet loss or jitter. Voice packet loss may occur due to network congestion, while jitter may occur due to information reorganization of the transmission or receiving equipment, such as, delay processing, retransmission mechanism or buffer overflow.
- Noise devices, such as computers or fans, may make it difficult to hear each other clearly.

Why cannot I view the local video image?

- Check the screen layout to see whether the remote video image is shown in full size.

Why cannot I initiate presentation?

- Check whether the PC is sending a signal.
- Check the call statistics to see whether the Yealink VC Desktop is sharing content.
- Ensure that dual-stream protocol is configured correctly. For more information, refer to [Dual-Stream Protocol](#) on page 33.