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# **API Commands Introduction for Yealink Video Conferencing Systems**

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V1.06



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# Introduction

## About This Guide

The features and syntax of central control API commands are covered in this guide. This guide provides central control module introduction for readers to quickly understand the related functions, and helps developers to complete follow-up programming work to realize controlling Yealink video conferencing systems via LAN connection and Serial connection.

## Changes for Release 1, Guide Version 1.06

The following parameters are new for this edition:

- [callinfo](#) on page 20
- [getcallid](#) on page 29
- [sysstatus](#) on page 36

## Overview

## Supportive Environment

- The API commands described in this guide apply to Yealink video conferencing systems running firmware version 2.0 or later.
- The API commands can be sent to Yealink video conferencing systems over network or serial port, to realize controlling the Yealink video conferencing systems.
- In order to make it easier for readers to understand the API syntax, the detailed API syntax is introduced in the following chapters. For more information, refer to [About the API Commands](#) on page 5.

**Note**

The API commands are case sensitive.

## Using the API with a LAN Connection

If Yealink video conferencing system connects to the LAN, you can send API commands to it through TCP protocol. The control system needs to know the IP address and port of the Yealink video conferencing system.

**Configuration parameters needed:**

- Console port should be set to 6024
- Yealink video conferencing system IP address

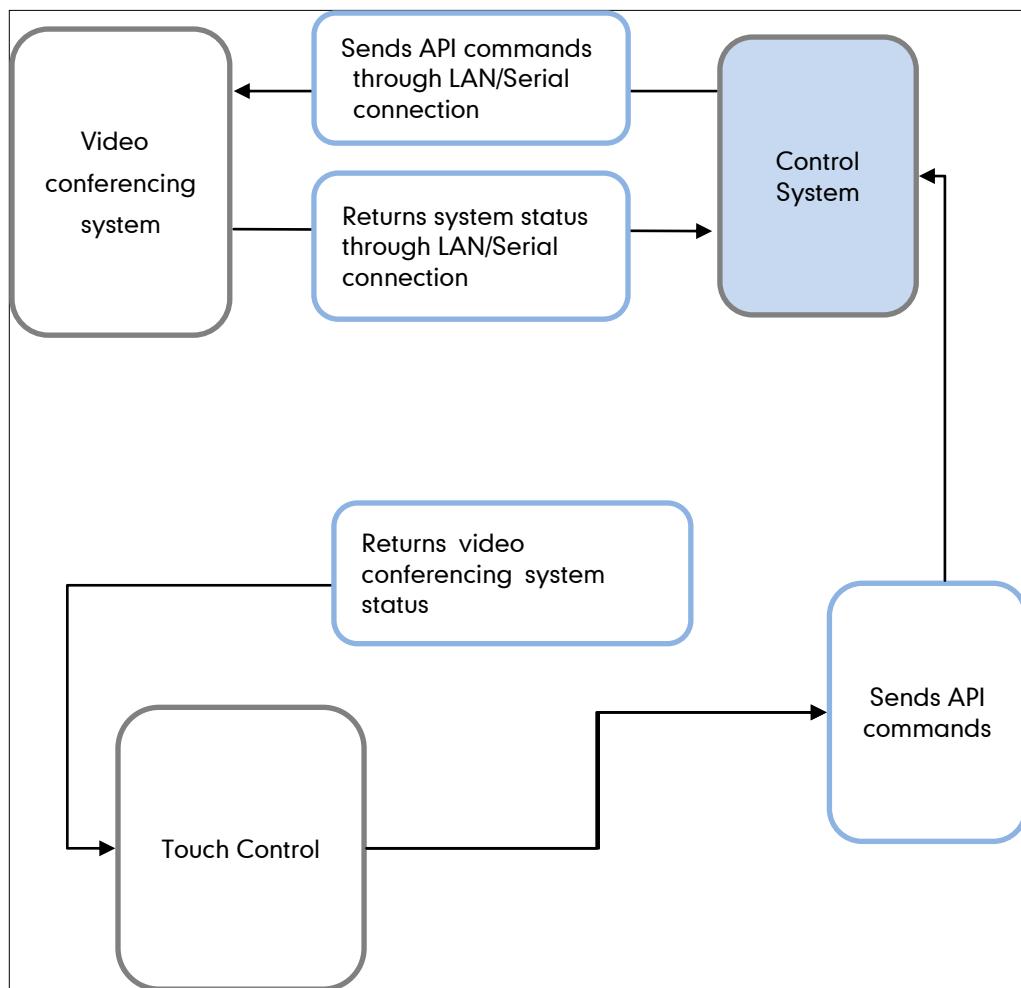
## Using the API with a Serial Connection

You can use the API with a serial connection to control Yealink video conferencing system. The USB port on the Yealink video conferencing system can be used as a serial port, and establishes a connection with serial port on the control system through a serial cable.

**Configuration parameters needed:**

- Baudrate: 115200
- Databits: 8
- Stopbits: 1
- Parity: N (None)

## Diagram of Central Control System





# About the API Commands

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## Syntax Conventions

The following conventions are used for the API command descriptions in this chapter. All of the commands are case sensitive.

Convention	Meaning
<param1 param2 param3>	<p>Multiple valid parameters are enclosed in angle brackets and separated by the pipe (" ") character.</p> <p><b>Example:</b> button &lt;0 1 2 3 4 5 6 7 8 9 * #&gt;</p> <p><b>Returning Example:</b> Send: button 0\r\n return button 0\r\n</p>
"x"	<p>Quotation marks indicate strings to be supplied by the user.</p> <p><b>Example:</b> dial auto "dialstring"</p> <p><b>Returning Example</b> Send: dial auto "1235"\r\n return dial auto "1235"\r\n</p>
{1..n}	A range of possible numeric values is enclosed in braces.

**Note** The API commands listed in this guide are in alphabetical order. To make it easier for users to manage and organize these commands, new commands will be added to the table based on this rule.

This rule applies to reading and sorting API commands. It is not a rule for sending API commands. The format of sending API commands is detailed in each API command.

## Format Description of Data Packet

### Format of Sending API Command

\r\n identifier represents the end of the API command. Every API command must end with \r\n.

### Format of Returning API Command

\r\n identifier represents the end of the API command. Every API command returned carries \r\n.

### Basic Command format

1. Command (without parameter)
2. Command+ space +param1 (with a parameter)
3. Command+ space + param1 + space + param2 + space +... + space + paramN (with multiple parameters)
4. Command + space + "string" (command with a string, the string is enclosed in quotes)
5. Command+ space + param1 + space + "string"

#### Additional Tips

- Parameter list is optional. The command may or may not have parameters.
- Commands may or may not have string. The string should be enclosed in quotes.
- Command and parameter should be separated by a space.
- Multiple parameters should be separated by a space.
- String should be enclosed in quotes.

### Command Response Syntax

#### Successful Response

- Returning control commands (the control system sends control commands to video conferencing system)  
Command param\r\n
- Returning query commands (the control system sends query commands to video conferencing system)  
Command data\r\n
- Returning feedback commands (the video conferencing system provides feedback)

to the control system)

Command data\r\n

**Note** Param represents parameter supported by command. Data represents the data user wants to query.

### Invalid Response

- Command is correct but the parameter is wrong:  
error: command has illegal parameters\r\n
- Command is wrong:  
error: command not found\r\n



# Detailed Description of API Commands

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The API commands supported by Yealink VCS V2.0 are described below. Readers can use TCP tools or serial tools to test these API commands in the environment mentioned above.

The availability of API commands depends on the firmware of video conferencing system.

The commands listed below are in alphabetical order. To make it easier for users to manage and organize these commands, new commands will be added to the table based on this rule.

## answer

### 1. answer <yes|no>

answer	answer <yes no>	
<b>Parameter introduction</b> (control command type)	param	Valid values: - <b>yes</b> : answers calls. - <b>no</b> : refuses calls.
<b>Sending format</b>	answer <yes no>\r\n	
<b>Returning format</b>	answer <yes no>\r\n	
<b>Example</b>	Send:  answer yes\r\n return  answer yes\r\n	

## addrbook

### 1. addrbook all

addrbook	addrbook all	
<b>Parameter introduction</b> (control command type)	all	Obtains all contacts' information.
<b>Sending format</b>	addrbook all\r\n	
<b>Returning format</b>	addrbook numid type "name" "numberlist"\r\n <b>Note:</b>	

	<ul style="list-style-type: none"> <li>- <b>numid</b>: contact id</li> <li>- <b>type</b>: contact type</li> <li>    <b>local</b>: local contact</li> <li>    <b>conf</b>: conference contact</li> <li>- <b>"name"</b>: contact's name strings</li> <li>- <b>"numberlist"</b>: contact's number strings (maybe multiple numbers)</li> </ul>
<b>Example</b>	<p>Send:</p> <pre>addrbook all return addrbook 1 local "xiaoming" "123456" "231456" \r\n addrbook 2 local "zhangpeng" "123456" "65412" "98745"\r\n addrbook 3 local "pengp" "63251"\r\n addrbook 4 conf "groud1_conf" "11111" "22222" "5565655" "96363524"\r\n addrbook 5 conf "group2_conf" "222241" "65412" "654253"\r\n addrbook all all done!</pre>

## 2. addrbook <local|conf> get all

addrbook	addrbook <local conf> get all	
<b>Parameter introduction</b> (control command type)	local	Configures local contacts information.
	conf	Configures conference contact information.
	get	Obtains the selected contacts' information.
	all	Obtains all local or conference contacts' information.
<b>Sending format</b>	addrbook <local conf> get all\r\n	
<b>Returning format</b>	addrbook numid type "name" "numberlist"\r\n <b>Note:</b> <ul style="list-style-type: none"> <li>- <b>numid</b>: contact id</li> <li>- <b>type</b>: contact type</li> <li>    <b>local</b>: local contact</li> <li>    <b>conf</b>: conference contact</li> <li>- <b>"name"</b>: contact's name strings</li> <li>- <b>"numberlist"</b>: contact's number strings (maybe multiple numbers)</li> </ul>	
	Send: addrbook local get all	
<b>Example</b>		

	<pre> return addrbook 1 local "xiaoming" "123456" "231456" \r\n addrbook 2 local "zhangpeng" "123456" "65412" "98745"\r\n addrbook 4 local "zzddff" "123456" "231456" \r\n addrbook 5 local "zmndhdn" "123456" "65412" "98745"\r\n addrbook local get all all done! </pre>
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### 3. addrbook <local|conf> get {1...n}

addrbook	addrbook <local conf> get {1...n}	
<b>Parameter introduction</b> (control command type)	local	Configures local contacts information.
	conf	Configures conference contact information.
	get	Obtains the selected contacts' information.
	{1...n}	n should be a positive integer. It represents the number of contacts.
<b>Sending format</b>	addrbook <local conf> get {1...n}\r\n	
<b>Returning format</b>	<p>addrbook numid type "name" "numberlist"\r\n</p> <p><b>Note:</b></p> <ul style="list-style-type: none"> <li>- <b>numid:</b> contact id</li> <li>- <b>type:</b> contact type</li> <li>  <b>local:</b> local contact</li> <li>  <b>conf:</b> conference contact</li> <li>- <b>"name":</b> contact's name strings</li> <li>- <b>"numberlist":</b> contact's number strings (maybe multiple numbers)</li> </ul>	
<b>Example</b>	<p>Send:</p> <p>addrbook local get 2</p> <p>return</p> <p>addrbook 1 local "xiaoming" "123456" "231456" \r\n</p> <p>addrbook 2 local "zhangpeng" "123456" "65412" "98745"\r\n</p> <p>addrbook local get 2 all done!</p> <p>send:</p> <p>addrbook conf get 3</p> <p>return:</p> <p>addrbook 1 conf "groud1_conf" "11111" "22222"</p> <p>"5565655" "96363524"\r\n</p> <p>addrbook 2 conf "group2_conf" "222241" "65412"</p> <p>"654253"\r\n</p> <p>addrbook 3 conf "group3_conf" "123654" "32165"</p> <p>"52314"\r\n</p>	

	addrbook conf get 3 all done!
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#### 4. addrbook search "searchstring"

addrbook	addrbook search "searchstring"	
<b>Parameter introduction</b> (control command type)	search	Searches contacts' information.
	"searchstring"	Configures the name string to be searched.
<b>Sending format</b>	addrbook search "searchstring"\r\n	
<b>Returning format</b>	addrbook numid type "name" "numberlist"\r\n <b>Note:</b> <ul style="list-style-type: none"><li>- <b>numid</b>: contact id</li><li>- <b>type</b>: contact type<ul style="list-style-type: none"><li><b>local</b>: local contact</li><li><b>conf</b>: conference contact</li></ul></li><li>- <b>"name"</b>: contact's name strings</li><li>- <b>"numberlist"</b>: contact's number strings (maybe multiple numbers)</li></ul>	
	Send: addrbook search "xiao" return addrbook 1 local "xiao" "123456" "231456" \r\n addrbook 2 conf "xiao" "123456" "65412" "98745"\r\n	
<b>Example</b>		

## button

#### 1. button power

button	button power
<b>Parameter introduction</b> (control command type)	Sends the power button signal to the video conferencing system.
<b>Sending format</b>	button power\r\n
<b>Returning format</b>	button power\r\n
<b>Example</b>	Send: button power\r\n return button power\r\n

## 2. button F1

button	button F1
<b>Parameter introduction</b> (control command type)	Sends the red shortcut button signal to the video conferencing system.
<b>Sending format</b>	button F1\r\n
<b>Returning format</b>	button F1\r\n
<b>Example</b>	Send: button F1\r\n return button F1\r\n

## 3. button F2

button	button F2
<b>Parameter introduction</b> (control command type)	Sends the yellow shortcut button signal to the video conferencing system.
<b>Sending format</b>	button F2\r\n
<b>Returning format</b>	button F2\r\n
<b>Example</b>	Send: button F2\r\n return button F2\r\n

## 4. button F3

button	button F3
<b>Parameter introduction</b> (control command type)	Sends the blue shortcut button signal to the video conferencing system.
<b>Sending format</b>	button F3\r\n
<b>Returning format</b>	button F3\r\n
<b>Example</b>	Send: button F3\r\n return button F3\r\n

## 5. button volume+

button	button volume+
<b>Parameter introduction</b> (control command type)	Sends the volume + button signal to the video conferencing system.
<b>Sending format</b>	button volume+\r\n
<b>Returning format</b>	button volume+\r\n

<b>Example</b>	Send: button volume+\r\n return button volume+\r\n
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**6. button volume-**

button	<b>button volume-</b>
<b>Parameter introduction</b> (control command type)	Sends the volume button signal to the video conferencing system.
<b>Sending format</b>	button volume-\r\n
<b>Returning format</b>	button volume-\r\n
<b>Example</b>	Send: button volume-\r\n return button volume-\r\n

**7. button zoom+**

button	<b>button zoom+</b>
<b>Parameter introduction</b> (control command type)	Sends the zoom+ button signal to the video conferencing system.
<b>Sending format</b>	button zoom+\r\n
<b>Returning format</b>	button zoom+\r\n
<b>Example</b>	Send: button zoom+\r\n return button zoom+\r\n

**8. button zoom-**

button	<b>button zoom-</b>
<b>Parameter introduction</b> (control command type)	Sends the zoom - button signal to the video conferencing system.
<b>Sending format</b>	button zoom-\r\n
<b>Returning format</b>	button zoom-\r\n
<b>Example</b>	Send: button zoom-\r\n return button zoom-\r\n

### 9. button up

button	button up
<b>Parameter introduction</b> (control command type)	Sends the up arrow button signal to the video conferencing system.
<b>Sending format</b>	button up\r\n
<b>Returning format</b>	button up\r\n
<b>Example</b>	Send: button up\r\n return button up\r\n

### 10. button down

button	button down
<b>Parameter introduction</b> (control command type)	Sends the down arrow button signal to the video conferencing system.
<b>Sending format</b>	button down\r\n
<b>Returning format</b>	button down\r\n
<b>Example</b>	Send: button down\r\n return button down\r\n

### 11. button right

button	button right
<b>Parameter introduction</b> (control command type)	Sends the right arrow button signal to the video conferencing system.
<b>Sending format</b>	button right\r\n
<b>Returning format</b>	button right\r\n
<b>Example</b>	Send: button right\r\n return button right\r\n

### 12. button left

button	button left
<b>Parameter introduction</b> (control command type)	Sends the left arrow button signal to the video conferencing system.
<b>Sending format</b>	button left\r\n
<b>Returning format</b>	button left\r\n

<b>Example</b>	Send: button left\r\nreturn button left\r\n
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**13. button select**

button	<b>button select</b>
<b>Parameter introduction</b> (control command type)	Sends the OK button signal to the video conferencing system.
<b>Sending format</b>	button select\r\n
<b>Returning format</b>	button select\r\n
<b>Example</b>	Send: button select\r\nreturn button select\r\n

**14. button mute**

button	<b>button mute</b>
<b>Parameter introduction</b> (control command type)	Sends the mute button signal to the video conferencing system.
<b>Sending format</b>	button mute\r\n
<b>Returning format</b>	button mute\r\n
<b>Example</b>	Send: button mute\r\nreturn button mute\r\n

**15. button home**

button	<b>button home</b>
<b>Parameter introduction</b> (control command type)	Sends the home button signal to the video conferencing system.
<b>Sending format</b>	button home\r\n
<b>Returning format</b>	button home\r\n
<b>Example</b>	Send: button home\r\nreturn button home\r\n

**16. button show**

<b>button</b>	<b>button home</b>
<b>Parameter introduction</b> (control command type)	Sends the video source button signal to the video conferencing system.
<b>Sending format</b>	button show\r\n
<b>Returning format</b>	button show\r\n
<b>Example</b>	Send: button show\r\n return button show\r\n

**17. button call**

<b>button</b>	<b>button call</b>
<b>Parameter introduction</b> (control command type)	Sends the off-hook button signal to the video conferencing system.
<b>Sending format</b>	button call\r\n
<b>Returning format</b>	button call\r\n
<b>Example</b>	Send: button call\r\n return button call\r\n

**18. button delete**

<b>button</b>	<b>button delete</b>
<b>Parameter introduction</b> (control command type)	Sends the delete button signal to the video conferencing system.
<b>Sending format</b>	button delete\r\n
<b>Returning format</b>	button delete\r\n
<b>Example</b>	Send: button delete\r\n return button delete\r\n

**19. button hangup**

<b>button</b>	<b>button hangup</b>
<b>Parameter introduction</b> (control command type)	Sends the on-hook button signal to the video conferencing system.
<b>Sending format</b>	button hangup\r\n
<b>Returning format</b>	button hangup\r\n

<b>Example</b>	Send: button hangup\r\nreturn button hangup\r\n
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**20. button <1|2|3|4|5|6|7|8|9|0|\*|#>**

button	button <1 2 3 4 5 6 7 8 9 0 * #>
<b>Parameter introduction</b> (control command type)	Sends corresponding numeric button or # or * button signal to the video conferencing system.
<b>Sending format</b>	button <1 2 3 4 5 6 7 8 9 0 * #>\r\n
<b>Returning format</b>	button <1 2 3 4 5 6 7 8 9 0 * #>\r\n
<b>Example</b>	Send: button 1\r\nreturn button 1\r\n

**21. button recordstart**

button	button recordstart
<b>Parameter introduction</b> (control command type)	Sends video recording button signal to the video conferencing system to start recording.
<b>Sending format</b>	button recordstart\r\n
<b>Returning format</b>	button recordstart\r\n
<b>Example</b>	Send: button recordstart\r\nreturn button recordstart\r\n

**22. button recordstop**

button	button recordstop
<b>Parameter introduction</b> (control command type)	Sends video recording button signal to the video conferencing system to stop recording.
<b>Sending format</b>	button recordstop\r\n
<b>Returning format</b>	button recordstop\r\n
<b>Example</b>	Send: button recordstop\r\nreturn button recordstop\r\n

### 23. button screenshot

button	button screenshot
<b>Parameter introduction</b> (control command type)	Sends snapshot button signal to the video conferencing system.
<b>Sending format</b>	button screenshot\r\n
<b>Returning format</b>	button screenshot\r\n
<b>Example</b>	Send: button screenshot\r\nreturn button screenshot\r\n

## camera

### 1. camera near move <left|right|up|down|zoom+|zoom-|stop>

camera	camera near move <left right up down zoom+ zoom- stop>	
<b>Parameter introduction</b> (control command type)	near	Controls the near-site camera.
	move	Changes the near-site camera's direction or zoom.
	<left right up down zoom+ zoom- stop>	<b>left:</b> Starts moving the camera left.
		<b>right:</b> Starts moving the camera right.
		<b>down:</b> Starts moving the camera down.
		<b>up:</b> Starts moving the camera up.
		<b>zoom+:</b> Starts zooming in.
		<b>zoom-:</b> Starts zooming out.
		<b>stop:</b> Stops moving the near-site camera.
<b>Sending format</b>	camera near move<left right up down zoom+ zoom- stop>\r\n	
<b>Returning format</b>	camera near move<left right up down zoom+ zoom- stop>\r\n	
<b>Example</b>	Send: camera near move left\r\nreturn camera near move left\r\n	

### 2. camera near <getposition|setposition "x" "y" "z">

camera	camera near <getposition setposition "x" "y" "z">	
<b>Parameter</b>	near	Controls the near-site camera.

<b>introduction</b> (control command type)	getposition	Obtains the pan(x), tilt(y), and zoom(z) coordinates of the currently selected PTZ camera in the format of pan tilt zoom.
	setposition	Configures the pan(x), tilt(y), and zoom(z) coordinates of the currently selected PTZ camera in the format of pan tilt zoom.
	"x"	0 <= pan <= 1920
	"y"	0 <= tilt <= 1080
	"z"	0 <= zoom <= 100
<b>Sending format</b>	camera near <getposition setposition "x" "y" "z">\r\n	
<b>Returning format</b>	camera near <getposition setposition "x" "y" "z">\r\n	
<b>Example</b>	Send: camera near getposition\r\n return camera near getposition "1910.000000" "1060.000000" "50.000000"\r\n send: camera near setposition "110.000000" "160.000000" "30.000000"\r\n return camera near setposition "110.000000" "160.000000" "30.000000"\r\n	

## callinfo

### 1. callinfo all

callinfo	callinfo all	
<b>Parameter introduction</b> (control command type)	all	Returns information about each connection in the call.
<b>Sending format</b>	callinfo all\r\n	
<b>Returning format</b>	<b>For audio call:</b>  callinfo audio "callid:63214" "RemoteStr:10.10.37.21@10.10.37.21" "direction:incomging" "protocol:sip" "devInfo:Yealink VC110 50.20.251.31 38/2""TotalBwRecv:48" "TotalBwSend:48" "AcodecRecv:G.722.1C" "AcodecSend:G.722.1C" "ABwRecv:48" "ABwSend:48" "ASrRecv:32" "ASrSend:32" "AJrRecv:6" "AJrSend:6" "AtplRecv:0" "AtplSend:0" "AtplpRecv:0" "AtplpSend:0"\r\n	

	<p><b>For video call that does not receive content:</b></p> <pre>callinfo video "callid:63214" "RemoteStr:10.10.37.21@10.10.37.21" "direction:outgoing" "protocol:sip" "devInfo:Yealink VC110 50.20.251.31 38/2""TotalBwRecv:1664" "TotalBwSend:2096" "VResRecv:192*1080" "VResSend:1920*1080" "VCodecRecv:H.264" "VCodecSend:H.264" "VBwRecv:1547" "VBwSend:2036" "VFrRecv:25:" "VFrSend:29" "VJrRecv:17" "VJrSend:16" "VtplRecv:0" "VtplSend:0" "VtplpRecv:0" "VtplpSend:0" "AcodecRecv:G.722.1C" "AcodecSend:G.722.1C" "ABwRecv:48" "ABwSend:48" "ASrRecv:32" "ASrSend:32" "AJrRecv:6" "AJrSend:6" "AtplRecv:0" "AtplSend:0" "AtplpRecv:0" "AtplpSend:0" "SResRecv:0" "SResSend:0" "SCodecRecv:0" "SCodecSend:0" "SBwRecv:0" "SBwSend:0" "SFrRecv:0" "SFrSend:0"\r\n</pre> <p><b>Parameter explanation:</b></p> <ol style="list-style-type: none"> <li>1. <b>TotalBwRecv:</b> receive total bandwidths</li> <li>2. <b>TotalBwSend:</b> transmit total bandwidths</li> <li>3. <b>VResRecv:</b> receive video resolution</li> <li>4. <b>VResSend:</b> transmit video resolution</li> <li>5. <b>VCodecRecv:</b> receive video Codec type</li> <li>6. <b>VCodecSend:</b> transmit video Codec type</li> <li>7. <b>VBwRecv:</b> receive video bandwidths</li> <li>8. <b>VBwSend:</b> transmit video bandwidths</li> <li>9. <b>VFrRecv:</b> receive video frame rate</li> <li>10. <b>VFrSend:</b> transmit video frame rate</li> <li>11. <b>VJrRecv:</b> receive video Jitter (ms)</li> <li>12. <b>VJrSend:</b> transmit video Jitter (ms)</li> <li>13. <b>VtplRecv:</b> receive video packet loss</li> <li>14. <b>VtplSend:</b> transmit video packet loss</li> <li>15. <b>VtplpRecv:</b> receive video packet loss(%)</li> <li>16. <b>VtplpSend:</b> transmit video packet loss(%)</li> <li>17. <b>AcodecRecv:</b> receive audio Codec type</li> <li>18. <b>AcodecSend:</b> transmit audio Codec type</li> <li>19. <b>ABwRecv:</b> receive audio bandwidths</li> <li>20. <b>ABwSend:</b> transmit audio bandwidths</li> <li>21. <b>ASrRecv:</b> receive audio sample rate(k)</li> <li>22. <b>ASrSend:</b> transmit audio sample rate(k)</li> <li>23. <b>AJrRecv:</b> receive audio Jitter (ms)</li> <li>24. <b>AJrSend:</b> transmit audio Jitter (ms)</li> <li>25. <b>AtplRecv:</b> receive audio packet loss</li> <li>26. <b>AtplSend:</b> transmit audio packet loss</li> <li>27. <b>AtplpRecv:</b> receive audio packet loss (%)</li> </ol>
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	<p>28. <b>AtplpSend:</b> transmit audio packet loss (%)      29. <b>SResRecv:</b> receive content resolution      30. <b>SResSend:</b> transmit content resolution      31. <b>SCodecRecv:</b> receive content Codec type      32. <b>SCodecSend:</b> transmit content Codec type      33. <b>SBwRecv:</b> receive content bandwidths      34. <b>SBwSend:</b> transmit content bandwidths      35. <b>SFrRecv:</b> receive content frame rate      36. <b>SFrSend:</b> transmit content frame rate</p> <p><b>Units of bandwidth: kb/s</b></p> <p><b>Units of frame rate: fps</b></p>
<b>Example</b>	<p>When the video conferencing system is during a video call and an audio call, the control system can get all call statistics.</p> <p>Send:</p> <pre>callinfo all\r\n</pre> <p>Return</p> <pre>callinfo audio "callid:63214" "RemoteStr:10.10.37.21@10.10.37.21" "direction:incomging" "protocol:sip" "devInfo:Yealink VC110 50.20.251.31 38/2""TotalBwRecv:48" "TotalBwSend:48" "AcodecRecv:G.722.1C" "AcodecSend:G.722.1C" "ABwRecv:48" "ABwSend:48" "ASrRecv:32" "ASrSend:32" "AJrRecv:6" "AJrSend:6" "AtplRecv:0" "AtplSend:0" "AtplpRecv:0" "AtplpSend:0"\r\n  callinfo video "callid:63214" "RemoteStr:10.10.37.21" "direction:outgoing" "protocol:sip" "devInfo:Yealink VC110 50.20.251.31 38/2""TotalBwRecv:1664" "TotalBwSend:2096" "VResRecv:192*1080" "VResSend:1920*1080" "VCodecRecv:H.264" "VCodecSend:H.264" "VBwRecv:1547" "VBwSend:2036" "VFrRecv:25:" "VFrSend:29" "VJrRecv:17" "VJrSend:16" "VtplRecv:0" "VtplSend:0" "VtplpRecv:0" "VtplpSend:0" "AcodecRecv:G.722.1C" "AcodecSend:G.722.1C" "ABwRecv:48" "ABwSend:48" "ASrRecv:32" "ASrSend:32" "AJrRecv:6" "AJrSend:6" "AtplRecv:0" "AtplSend:0" "AtplpRecv:0" "AtplpSend:0" "SResRecv:0" "SResSend:0" "SCodecRecv:0" "SCodecSend:0" "SBwRecv:0" "SBwSend:0" "SFrRecv:0" "SFrSend:0"\r\n  callinfo all all done\r\n</pre>

## 2. callinfo callid "callid"

callinfo	callinfo callid "callid"	
<b>Parameter introduction</b>	callid	Returns information about the connection with the specified call ID.

(control command type)		
Sending format	callinfo callid "63214"\r\n	
Returning format	<p><b>For audio call:</b></p> <pre>callinfo audio "callid:63214" "RemoteStr:10.10.37.21@10.10.37.21" "direction:incomging" "protocol:sip" "devInfo:Yealink VC110 50.20.251.31 38/2""TotalBwRecv:48" "TotalBwSend:48" "AcodecRecv:G.722.1C" "AcodecSend:G.722.1C" "ABwRecv:48" "ABwSend:48" "ASrRecv:32" "ASrSend:32" "AJrRecv:6" "AJrSend:6" "AtplRecv:0" "AtplSend:0" "AtplpRecv:0" "AtplpSend:0"\r\n</pre> <p><b>For video call that does not receive content:</b></p> <pre>callinfo video "callid:63214" "RemoteStr:10.10.37.21@10.10.37.21" "direction:outgoing" "protocol:sip" "devInfo:Yealink VC110 50.20.251.31 38/2""TotalBwRecv:1664" "TotalBwSend:2096" "VResRecv:192*1080" "VResSend:1920*1080" "VCodecRecv:H.264" "VCodecSend:H.264" "VBwRecv:1547" "VBwSend:2036" "VFrRecv:25:" "VFrSend:29" "VJrRecv:17" "VJrSend:16" "VtplRecv:0" "VtplSend:0" "VtplpRecv:0" "VtplpSend:0" "AcodecRecv:G.722.1C" "AcodecSend:G.722.1C" "ABwRecv:48" "ABwSend:48" "ASrRecv:32" "ASrSend:32" "AJrRecv:6" "AJrSend:6" "AtplRecv:0" "AtplSend:0" "AtplpRecv:0" "AtplpSend:0" "SResRecv:0" "SResSend:0" "SCodecRecv:0" "SCodecSend:0" "SBwRecv:0" "SBwSend:0" "SFrRecv:0" "SFrSend:0"\r\n</pre> <p><b>For video call that receives content:</b></p> <pre>callinfo video "callid:63214" "RemoteStr:10.10.37.21@10.10.37.21" "direction:outgoing" "protocol:sip" "devInfo:Yealink VC110 50.20.251.31 38/2""TotalBwRecv:1664" "TotalBwSend:2096" "VResRecv:192*1080" "VResSend:1920*1080" "VCodecRecv:H.264" "VCodecSend:H.264" "VBwRecv:1547" "VBwSend:2036" "VFrRecv:25:" "VFrSend:29" "VJrRecv:17" "VJrSend:16" "VtplRecv:0" "VtplSend:0" "VtplpRecv:0" "VtplpSend:0" "AcodecRecv:G.722.1C" "AcodecSend:G.722.1C" "ABwRecv:48" "ABwSend:48" "ASrRecv:32" "ASrSend:32" "AJrRecv:6" "AJrSend:6" "AtplRecv:0" "AtplSend:0" "AtplpRecv:0" "AtplpSend:0" "SResRecv:1920*1080" "SResSend:0" "SCodecRecv:H.264" "SCodecSend:0" "SBwRecv:1974" "SBwSend:0" "SFrRecv:30" "SFrSend:0"\r\n</pre>	

	<p><b>For video call that sends content:</b></p> <pre>callinfo video "callid:63214" "RemoteStr:10.10.37.21@10.10.37.21" "direction:outgoing" "protocol:sip" "devInfo:Yealink VC110 50.20.251.31 38/2""TotalBwRecv:1664" "TotalBwSend:2096" "VResRecv:192*1080" "VResSend:1920*1080" "VCodecRecv:H.264" "VCodecSend:H.264" "VBwRecv:1547" "VBwSend:2036" "VFrRecv:25:" "VFrSend:29" "VJrRecv:17" "VJrSend:16" "VtplRecv:0" "VtplSend:0" "VtplpRecv:0" "VtplpSend:0" "AcodecRecv:G.722.1C" "AcodecSend:G.722.1C" "ABwRecv:48" "ABwSend:48" "ASrRecv:32" "ASrSend:32" "AJrRecv:6" "AJrSend:6" "AtplRecv:0" "AtplSend:0" "AtplpRecv:0" "AtplpSend:0" "SResRecv:0" "SResSend:1920*1080" "SCodecRecv:" "SCodecSend:H.264" "SBwRecv:" "SBwSend:1974" "SFrRecv:0" "SFrSend:30"\r\n</pre> <p><b>Parameter explanation:</b></p> <ol style="list-style-type: none"> <li>1. <b>TotalBwRecv:</b> receive total bandwidths</li> <li>2. <b>TotalBwSend:</b> transmit total bandwidths</li> <li>3. <b>VResRecv:</b> receive video resolution</li> <li>4. <b>VResSend:</b> transmit video resolution</li> <li>5. <b>VCodecRecv:</b> receive video Codec type</li> <li>6. <b>VCodecSend:</b> transmit video Codec type</li> <li>7. <b>VBwRecv:</b> receive video bandwidths</li> <li>8. <b>VBwSend:</b> transmit video bandwidths</li> <li>9. <b>VFrRecv:</b> receive video frame rate</li> <li>10. <b>VFrSend:</b> transmit video frame rate</li> <li>11. <b>VJrRecv:</b> receive video Jitter (ms)</li> <li>12. <b>VJrSend:</b> transmit video Jitter (ms)</li> <li>13. <b>VtplRecv:</b> receive video packet loss</li> <li>14. <b>VtplSend:</b> transmit video packet loss</li> <li>15. <b>VtplpRecv:</b> receive video packet loss(%)</li> <li>16. <b>VtplpSend:</b> transmit video packet loss(%)</li> <li>17. <b>AcodecRecv:</b> receive audio Codec type</li> <li>18. <b>AcodecSend:</b> transmit audio Codec type</li> <li>19. <b>ABwRecv:</b> receive audio bandwidths</li> <li>20. <b>ABwSend:</b> transmit audio bandwidths</li> <li>21. <b>ASrRecv:</b> receive audio sample rate(k)</li> <li>22. <b>ASrSend:</b> transmit audio sample rate(k)</li> <li>23. <b>AJrRecv:</b> receive audio Jitter (ms)</li> <li>24. <b>AJrSend:</b> transmit audio Jitter (ms)</li> <li>25. <b>AtplRecv:</b> receive audio packet loss</li> <li>26. <b>AtplSend:</b> transmit audio packet loss</li> <li>27. <b>AtplpRecv:</b> receive audio packet loss (%)</li> <li>28. <b>AtplpSend:</b> transmit audio packet loss (%)</li> </ol>
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	<p>29. <b>SResRecv:</b> receive content resolution      30. <b>SResSend:</b> transmit content resolution      31. <b>SCodecRecv:</b> receive content Codec type      32. <b>SCodecSend:</b> transmit content Codec type      33. <b>SBwRecv:</b> receive content bandwidths      34. <b>SBwSend:</b> transmit content bandwidths      35. <b>SFrRecv:</b> receive content frame rate      36. <b>SFrSend:</b> transmit content frame rate</p> <p><b>Units of bandwidth:</b> kb/s  <b>Units of frame rate:</b> fps</p>
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## dial

### 1. dial auto "dialstring"

dial	<p><b>dial auto "dialstring"</b> (dial one contact)          or  <b>dial auto "dialnumber1" "dialnumber2" "dialnumber3"</b> (dial the conference contacts)</p> <p><b>Note:</b>          This is a dial command. When you dial a contact, the video conferencing system will call a number. When you dial a conference contact, the video conferencing system will call multiple numbers. In other words, when sending one number, the video conferencing system will call a local contact, when sending multiple numbers, the video conferencing system will call the conference contact.</p>	
<b>Parameter introduction</b> (control command type)	auto	Allows the user to dial a number using default call type and call protocol.
<b>Sending format</b>	<p>"dialstring"</p> <p>Valid phone numbers string.</p>	
<b>Returning format</b>	<p>dial auto "dialstring"\r\n</p> <p>or</p> <p>dial auto "dialnumber" "dialnumber" "dialnumber"\r\n</p>	
<b>Example</b>	<p>When dialing a local contact:          Send:          dial auto "7001"\r\n          return          dial auto "7001"\r\n</p>	

	<p>When dialing a conference contact:</p> <p>Send:</p> <pre>dial auto "7001" "7002" "7003"\r\n return dial auto "7001" "7002" "7003"\r\n</pre>
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## 2. dial manual <video|audio|auto> <auto|sip|h323> “speed” “dialstring”

Dial	<b>dial manual &lt;video audio auto&gt; &lt;auto sip h323&gt; “speed” “dialstring”</b> <b>Note:</b> It is only applicable to dial a contact.	
Parameter introduction (control command type)	manual	Allows the user to dial a number using call type and call protocol set manually.
	“speed”	Valid data rate for the network. Default value is “Auto”.
	<video audio auto>	<p>Specifies the desired call type for placing calls.</p> <p>Valid values:</p> <ul style="list-style-type: none"> <li>- <b>Auto:</b> the video conferencing system automatically uses the default call type. Default value is Video.</li> <li>- <b>Video:</b> the video conferencing system dials video call.</li> <li>- <b>Audio:</b> the video conferencing system dials audio call.</li> </ul>
	<auto sip h323>	<p>Specifies the desired call protocol for placing calls.</p> <p>Valid values:</p> <ul style="list-style-type: none"> <li>- <b>Auto:</b> the video conferencing system automatically uses the default call protocol. Default value is H.323.</li> <li>- <b>SIP:</b> the video conferencing system uses the SIP protocol for placing calls.</li> <li>- <b>H.323:</b> the video conferencing system uses H.323 protocol for placing calls.</li> </ul>
	“dialstring”	Valid phone numbers string.
Sending format	<pre>dial manual &lt;video audio auto&gt; &lt;auto sip h323&gt; “speed” “dialstring”\r\n</pre>	
Returning format	<pre>dial manual &lt;video audio auto&gt; &lt;auto sip h323&gt; “speed” “dialstring”\r\n</pre>	

<b>Example</b>	Send: dial manual video sip "auto" "70001"\r\n return dial manual video sip "auto" "70001"\r\n
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## donotdisturb

### 1. donotdisturb global <get|on|off>

donotdisturb	donotdisturb global <get on off>	
<b>Parameter introduction</b> (control command type)	global	Configures DND for the video conferencing system.
<b>Sending format from the control system</b>		Valid values: - <b>get</b> : obtains the DND status. - <b>on</b> : enables the DND feature. - <b>off</b> : disables the DND feature.
<b>Returning format received by the control system</b>		donotdisturb global <get on off>\r\n or donotdisturb global <on off>\r\n
<b>The video conferencing system provides active feedback to the control system</b>	<p style="color: red;">donotdisturb global get &lt;on off&gt;\r\n</p> <p><b>Note:</b> Once the DND status changes, the video conferencing system will provide active feedback to the control system.</p> <p><b>Format:</b></p> <ul style="list-style-type: none"> <li>• The video conferencing system provides active feedback to the control system: <b>donotdisturb global get on\r\n</b></li> <li>• The control system receives the command: <b>donotdisturb global get on\r\n</b></li> <li>• The video conferencing system provides active feedback to the control system: <b>donotdisturb global get off\r\n</b></li> <li>• The control system receives the command: <b>donotdisturb global get off\r\n</b></li> </ul>	
<b>Example</b>	Send: donotdisturb global get\r\n return	

	<pre>donotdisturb global get on\r\n send: donotdisturb global get\r\n return donotdisturb global get off\r\n send: donotdisturb global on\r\n return donotdisturb global on\r\n</pre>
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## 2. donotdisturb talk <get|on|off>

donotdisturb	donotdisturb talk <get on off>	
<b>Parameter introduction</b> (control command type)	talk	Configures DND during a call.
	params	<p>Valid values:</p> <ul style="list-style-type: none"> <li>- <b>get</b>: obtains the DND status during a call.</li> <li>- <b>on</b>: enables the DND feature during a call.</li> <li>- <b>off</b>: disables the DND feature during a call.</li> </ul>
<b>Sending format</b>	donotdisturb talk <get on off>\r\n	
<b>Returning format</b>	donotdisturb talk get <on off>\r\n or donotdisturb talk <on off>\r\n	
<b>The video conferencing system provides active feedback to the control system</b>	<p>donotdisturb talk get &lt;on off&gt;\r\n</p> <p><b>Note:</b></p> <p>Once the DND status in a call changes, the video conferencing system will provide active feedback to the control system.</p> <p><b>Format:</b></p> <ul style="list-style-type: none"> <li>• The video conferencing system provides active feedback to the control system: donotdisturb talk get on\r\n</li> <li>• The control system receives the command: donotdisturb talk get on\r\n</li> <li>• The video conferencing system provides active feedback to the control system: donotdisturb talk get off\r\n</li> <li>• The control system receives the command: donotdisturb talk get off\r\n</li> </ul>	
<b>Example</b>	<p>Send:</p> <p>donotdisturb talk get\r\n</p> <p>return</p>	

	donotdisturb talk get on\r\nsend: donotdisturb talk get\r\nreturn donotdisturb talk get off\r\nsend: donotdisturb talk on\r\nreturn donotdisturb talk on\r\n
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## gendial

### 1. gendial <0|1|2|3|4|5|6|7|8|9|\*|#>

gendial	gendial <0 1 2 3 4 5 6 7 8 9 * #>
<b>Parameter introduction</b> (control command type)	Generates DTMF dialing tones.
<b>Sending format</b>	gendial <0 1 2 3 4 5 6 7 8 9 # *>\r\n
<b>Returning format</b>	gendial <0 1 2 3 4 5 6 7 8 9 # *>\r\n
<b>Example</b>	Send: gendial 0\r\nreturn gendial 0\r\n

## getcallid

### 1. getcallid

getcallid	getcallid
<b>Parameter introduction</b> (control command type)	Returns call ID information about each connection in the call.
<b>Sending format</b>	getcallid\r\n
<b>Returning format</b>	getcallid "callid: 654123" "remotestr: 10.3.3.2"\r\n
<b>Example</b>	Send: getcallid\r\nreturn getcallid "callid: 654121" "remotestr: 10.3.3.1"\r\ngetcallid "callid: 654122" "remotestr: 10.3.3.2"\r\ngetcallid "callid: 654123" "remotestr: 10.3.3.3"\r\ngetcallid "callid: 654124" "remotestr: 10.3.3.4"\r\ngetcallid all done\r\n

## history

### 2. history all

history	history all	
Parameter introduction (control command type)	all	Lists all call history.
Sending format	history all\r\n	
Returning format	<p>history numid type "name" "date" "duration" "numberlist"\r\n</p> <p><b>Note:</b></p> <ul style="list-style-type: none"> <li>- <b>numid:</b> call history id</li> <li>- <b>type:</b> call history type</li> <li><b>placed:</b> placed calls</li> <li><b>received:</b> received calls</li> <li><b>misscalled:</b> missed calls</li> <li>- <b>"name":</b> name strings of the call history</li> <li>- <b>"date":</b> date string of the call history</li> <li>- <b>"duration":</b> duration of the call history</li> <li>- <b>"numberlist":</b> number strings of the call history</li> </ul>	
Example	<p>Send:</p> <pre>history all return history 1 placed "xiaom" "2015-06-01" "00:00:43" "123456" "321654" "222222333"\r\n  history 2 placed "mengsde" "2015-06-01" "00:01:43" "16532" "328888" "565622333"\r\n  history 3 received "mengsde" "2015-06-01" "00:11:43" "3616532" "865328888" "96365622333"\r\n  history 4 misscalled "mengsde" "2015-07-01" "00:00:00" "3363633" "756288" "363333"\r\n  history all all done!</pre>	

### 3. history <placed|received|misscalled> get all

history	history <placed received misscalled> get all	
Parameter introduction	placed	Configures the placed calls. <b>Note:</b>

(control command type)		Placed call record that has only one number represents a call to a contact. Placed call record that has multiple numbers represents a call to a conference contact.  Conference contact has “placed calls” only. It does not support other call history type.
received		Configures the received calls.
misscalled		Configures the missed calls.
get		Obtains the call history.
all		Obtains all call history in selected history type.
<b>Sending format</b>	history <placed received misscalled> get all\r\n	
<b>Returning format</b>	history numid type “name” “date” “duration” “numberlist”\r\n <b>Note:</b> - <b>numid</b> : call history id - <b>type</b> : call history type <b>placed</b> : placed calls <b>received</b> : received calls <b>misscalled</b> : missed calls - <b>“name”</b> : name strings of the call history - <b>“date”</b> : date string of the call history - <b>“duration”</b> : duration of the call history - <b>“numberlist”</b> : number strings of the call history	
<b>Example</b>	Send:  history placed get all\r\nreturn  history 1 placed “xiaom” “2015-06-01” “00:00:43” “123456” “321654” “222222333”\r\n  history 2 placed “mengsde” “2015-06-01” “00:01:43” “16532” “328888” “565622333”\r\n history placed get all all done!	

#### 4. history <placed|received|misscalled> get {1...n}

history	history <placed received misscalled> get {1...n}	
<b>Parameter introduction</b> (control command)	placed	Configures the placed calls.
	received	Configures the received calls.
	misscalled	Configures the missed calls.

type)	get	Obtains the call history.
	{1...n}	n should be a positive integer. It represents the number of call history.
<b>Sending format</b>	history <placed received misscalled> get {1...n}\r\n	
<b>Returning format</b>	<p>history numid type "name" "date" "duration" "numberlist"\r\n</p> <p><b>Note:</b></p> <ul style="list-style-type: none"> <li>- <b>numid:</b> call history id</li> <li>- <b>type:</b> call history type</li> <li><b>placed:</b> placed calls</li> <li><b>received:</b> received calls</li> <li><b>misscalled:</b> missed calls</li> <li>- <b>"name":</b> name strings of the call history</li> <li>- <b>"date":</b> date string of the call history</li> <li>- <b>"duration":</b> duration of the call history</li> <li>- <b>"numberlist":</b> number strings of the call history</li> </ul>	
<b>Example</b>	<p>Send:</p> <p>history placed get 2\r\n</p> <p>return</p> <p>history 1 placed "xiaom" "2015-06-01" "00:00:43" "123456" "321654" "222222333"\r\n</p> <p>history 2 placed "mengsde" "2015-06-01" "00:01:43" "16532" "328888" "565622333"\r\n</p> <p>history placed get 2 all done!</p>	

## inputsource

### 1. inputsource camera

inputsource	inputsource camera	
<b>Parameter introduction</b> (control command type)	camera	Specifies the camera to be the video source.
<b>Sending format</b>	inputsource camera\r\n	
<b>Returning format</b>	inputsource camera\r\n	
<b>Example</b>	<p>Send:</p> <p>inputsource camera\r\n</p> <p>return</p> <p>inputsource camera\r\n</p>	

## 2. inputsource pc

inputsource	inputsource pc	
<b>Parameter introduction</b> (control command type)	pc	Specifies the PC to be the video source.
<b>Sending format</b>	inputsource pc\r\n	
<b>Returning format</b>	inputsource pc\r\n	
<b>Example</b>	Send: inputsource pc\r\n return inputsource pc\r\n	

## 3. inputsource share

inputsource	inputsource share	
<b>Parameter introduction</b> (control command type)	share	Specifies the PC+camera to be the video source.  <b>Note:</b> PC+camera can be selected during a call only.
<b>Sending format</b>	inputsource share\r\n	
<b>Returning format</b>	inputsource share\r\n	
<b>Example</b>	Send: inputsource share\r\n return inputsource share\r\n	

# Incoming

## 1. incoming "num:string" "name:string"

incoming	incoming "num:string" "name:string"
<b>Parameter introduction</b> (feedback command type)	The video conferencing system will provide active feedback to the control system when receiving an incoming call.  Valid values: - Incoming phone number - Caller name
<b>Sending format from the video conferencing system</b>	incoming "num:string" "name:string"\r\n
<b>Format received by control</b>	incoming "num:string" "name:string"\r\n

<b>system</b>	
<b>Example</b>	<p>Send:</p> <p>incoming "num:700051" "name:xiaopeng"\r\n</p> <p>return</p> <p>incoming "num:700051" "name:xiaopeng"\r\n</p>

## Mute

### 1. mute near <get|on|off|toggle>

mute	mute near <get on off toggle>	
<b>Parameter introduction</b> (control command type)	near	Mutes local video conferencing system.
	<get on off toggle>	<p>Valid values:</p> <p><b>get</b>: obtains the mute status</p> <p><b>on</b>: enables the mute feature</p> <p><b>off</b>: disables the mute feature</p> <p><b>toggle</b>: toggles between mute and unmute status.</p>
<b>Sending format from the control system</b>	mute near <get on off toggle>\r\n	
<b>Returning format received by the control system</b>	<p>mute near get &lt;on off&gt;\r\n</p> <p>or</p> <p>mute near &lt;on off toggle&gt;\r\n</p>	
<b>The video conferencing system provides active feedback to the control system</b>	<p>mute near get &lt;on off&gt;\r\n</p> <p><b>Note:</b></p> <p>Once the mute status changes, the video conferencing system will provide active feedback to the control system.</p> <p><b>Format:</b></p> <ul style="list-style-type: none"> <li>• The video conferencing system provides active feedback to the control system: mute near get on\r\n</li> <li>• The control system receives the command: mute near get on\r\n</li> <li>• The video conferencing system provides active feedback to the control system: mute near get off\r\n</li> <li>• The control system receives the command:</li> </ul>	

	<b>mute near get off\r\n</b>
<b>Example</b>	Send: mute near get return mute near get on\r\n send: mute near get return mute near get off\r\n send: mute near on return mute near on\r\n

## preset

### 1. preset near <go|set> <0|1|2|3|4|5|6|7|8|9>

Preset	preset near <go set> <0 1 2 3 4 5 6 7 8 9>	
<b>Parameter introduction (control command type)</b>	near	Configures the presets for the near-site camera.
	go	Moves the camera to a camera preset.
	set	Configures a camera preset.
	<0 1 2 3 4 5 6 7 8 9>	Camera preset identifier.
<b>Sending format</b>	preset near <go set> <0 1 2 3 4 5 6 7 8 9>\r\n	
<b>Returning format</b>	preset near <go set> <0 1 2 3 4 5 6 7 8 9>\r\n	
<b>Example</b>	Send: preset near go 0\r\n return preset near go 0\r\n	

## storage

### 1. storage get

storage	storage get	
<b>Checking parameter, but the system will provide active feedback too</b>	get	Obtains the USB status.
<b>Sending format</b>	Checking format	storage get\r\n

<b>Returning format</b>	<p>The video conferencing system provides active feedback to the control system or the control system receives the command:</p> <pre>storage get available\r\n or storage get unavailable\r\n</pre> <p><b>Note:</b></p> <p>Once USB status changes, the video conferencing system will provide active feedback to the control system. If LAN mode and serial port mode are configured, both of them are able to receive the feedback.</p>
<b>Example</b>	<p>Send:</p> <pre>storage get\r\n return storage get available\r\n storage get\r\n return storage get unavailable\r\n</pre>

## sysstatus

### 1. sysstatus get

sysstatus	Sysstatus get
<b>Parameter introduction</b>	<p>Obtains status notifications.</p> <p><b>Note:</b></p> <p>The video conferencing system may in multiple states. The control system can query the video conferencing system's status. The video conferencing system can also provide feedback to the control system.</p>
<b>Sending format</b>	<pre>sysstatus get\r\n</pre>
<b>Video conferencing system status</b>	<ol style="list-style-type: none"> <li>1. <b>sleeping</b> (the video conferencing system is sleeping)</li> <li>2. <b>idle</b> (the video conferencing system is idle)</li> <li>3. <b>outgoing</b> (the video conferencing system is placing a call)</li> <li>4. <b>ringing</b> (the video conferencing system receives an incoming calls)</li> <li>5. <b>talking</b> (the video conferencing system establishes a call)</li> </ol>

	<p>6. <b>finished</b> (the video conferencing system finishes a call)</p> <p>7. <b>talking max</b> (the video conferencing system has reached maximum sessions)</p>
Example	<p><b>sleeping (the video conferencing system is sleeping)</b></p> <p>The video conferencing system provides active feedback to the control system:</p> <pre>sysstatus get sleeping\r\n</pre> <p><b>Sending format from the control system</b></p> <p>Send</p> <pre>sysstatus get\r\n</pre> <p>return</p> <pre>sysstatus get sleeping\r\n sysstatus get all done!</pre> <p><b>Idle (the video conferencing system is idle)</b></p> <p>The video conferencing system provides active feedback to the control system:</p> <pre>sysstatus get idle\r\n</pre> <p><b>Sending format from the control system</b></p> <p>Send</p> <pre>sysstatus get\r\n</pre> <p>return</p> <pre>sysstatus get idle\r\n sysstatus get all done!</pre> <p><b>talking max (the video conferencing system has reached maximum sessions)</b></p> <p>The video conferencing system provides active feedback to the control system:</p> <pre>sysstatus get talking max\r\n</pre> <p><b>Sending format from the control system</b></p> <p>Send</p> <pre>sysstatus get\r\n</pre> <p>Return</p> <pre>sysstatus get talking max\r\n sysstatus get all done!</pre>

**outgoing (the video conferencing system is placing a call)**

**The video conferencing system provides active feedback to the control system:**

```
sysstatus get outgoing "dialstr:9865412" "callid: 653214"  
"calltype: video"\r\n
```

**Sending format from the control system**

```
sysstatus get\r\n
```

Return

```
sysstatus get outgoing "dialstr:9865412" "callid:  
653214" "calltype: video"\r\n  
sysstatus get all done!
```

**ringing (the video conferencing system receives an incoming calls)**

**The video conferencing system provides active feedback to the control system:**

```
sysstatus get ringing "dialstr:9865412" "callid:653214"  
"calltype:autdio"\r\n
```

**Sending format from the control system**

Send:

```
sysstatus get\r\n
```

return

```
sysstatus get ringing "dialstr:9865412" "callid:653214"  
"calltype:autdio"\r\n  
sysstatus get all done!
```

**talking (the video conferencing system establishes a call)**

**The video conferencing system provides active feedback to the control system:**

```
systatus get talking "dialstr:9865412" "callid:654321"  
"calltype:audio" "protocol:sip" "direction:  
incoming/outgoing"\r\n
```

**Sending format from the control system**

Send

```
systatus get\r\n
```

return

```
sysstatus get talking "dialstr:9865412"  
"callid:654321" "calltype:audio" "protocol:sip" "direction:  
incoming/outgoing"\r\n
```

	<p>sysstatus get all done!</p> <p><b>finished (the video conferencing system finishes a call)</b></p> <p><b>The video conferencing system provides active feedback to the control system:</b></p> <p>sysstatus get finished "dialstr: 98653214" "callid:632156"\r\n</p> <p>Finished status is a real-time status, it does not last for a certain period, so you can obtain finished status from the feedback only. You cannot query it from your control system.</p>
Note	<ol style="list-style-type: none"> <li>1. You may get multiple states from the <b>Sysstatus get</b> command.  For example, the video conferencing system receives an incoming call during a call:  Send     syssstatus get\r\nReturn     sysstatus get talking "dialstr:9865412"     "callid:654321" "calltype:audio" "protocol: sip" "direction:     incoming/outgoing"\r\n     sysstatus get ringing "dialstr:9865412"     "callid:653214" "calltype:autdio"\r\n     sysstatus get all done!</li> <li>2. The video conferencing system does not keep noticing its status during a call, it only notice its status every time a call is established.  And for H.323 calls, the video conferencing system will notice its status again when switching an audio call to a video call.</li> </ol>

## volume

### 1. volume <get|up|down|set {0..10}>

volume	volume <get up down set {0..10}>	
Parameter introduction	get	Obtains the audio volume on the video conferencing system.
	up	Increases the audio volume.
	down	Decreases the audio volume.

	set	Configures the volume to a specified level. Requires a volume setting from 0-10.
<b>Sending format</b>	volume <get up down set>\r\n	
<b>Returning format</b>	volume <get up down set>\r\n	
<b>Example</b>	<p>Send:</p> <pre>volume get\r\n return volume get 10\r\n</pre> <p>send:</p> <pre>volume up return: volume up\r\n</pre> <p>send:</p> <pre>volume set 10 return volume set 10\r\n</pre>	

## version

version	version
<b>Sending format</b>	<p>version\r\n</p> <p><b>Note:</b></p> <p>The control system can query the video conferencing system's version information. The video conferencing system can also provide version feedback to the control system when a connection between them is just established.</p> <p>If it is the first time LAN mode and serial port mode are configured, both of them are able to receive the version feedback.</p> <p><b>Format:</b></p> <ul style="list-style-type: none"> <li>• The video conferencing system provides active feedback to the control system:</li> </ul> <pre>version: "model:Yealink VC400" "firmware:30.20.254.12" "hardware:10.8.10.1.0.0.2" "productId:201601081434" "1.00"\r\n</pre> <ul style="list-style-type: none"> <li>• The control system receives the command:</li> </ul> <pre>version: "model:Yealink VC400" "firmware:30.20.254.12" "hardware:10.8.10.1.0.0.2" "productId:201601081434" "1.00"\r\n</pre>

<b>Returning format</b>	version: "model: string1" "firmware: string2" "hardware: string3" "productId: string4" "cc_version: string5"\r\n
<b>Example</b>	send: version return version "model: Yealink VC400" "firmware:30.20.254.12" "hardware:10.8.10.1.0.0.2" "productId:201601081434" "cc_version:1.00"\r\n