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Note: Some of the features described in this user guide are optional and they may not apply to your device.

All entries in the table of contents are active hyperlinks that take you to the corresponding article.
To go between chapters, you can click on the icons in the sidebar.
Introduction to Video Conferencing
Introduction

The Home Screen

Use the **Cursor** controls the remote control to move about the screen and press **OK/Enter** to open the selected menu field.

Use the **Cancel** key to exit a menu (and return to the Home screen) undoing any changes. Use the **Back** key to go one step back.

The remote control buttons are described on the following pages.

The **Intelligent Proximity** feature allows you to share, see and capture content from a video device wirelessly on your own device. You can also use your own device to control calls on the video device. See also “Intelligent Proximity” on page 23.

Tip

When set to Do Not Disturb, ringtones are muted and call attempts made by others to reach you appear as missed calls. You may, however, place calls as much as you like. As default, there is a 60 minutes timeout on the Do not disturb (after which the device returns to normal operation), but this may have been changed to a different setting by your Video Support Team.
Introduction
The Remote Control (I)

Left part of the uppermost button controls:
- Lower volume / Decrease.
- Right part of the uppermost button controls:
  - Higher volume / Increase.

To operate:
- Field selector / Cursor keys use the perimeter keys of the circular field (Left/Right/Up/Down).

OK/Enter is done by means of the center circular key.

Go back one step is done by means of the left circular key.

Use the Cursor controls to move about the screen and press OK/Enter to open the selected menu field.

Use the Cancel key to exit a menu (and return to the Home screen) undoing any changes. Use the Back key to go just one step back.
The Keypad is used to dial someone or input numerals. There is a raised bump on digit 5 to identify the keys.

Microphone mute/unmute is the right circular key.

The key below the Go back is the green Call button / Accept incoming call.

The key below the Mute key is the Reject incoming call / End call / Cancel / Back to Home screen (outside calls).

Use the Cursor controls to move about the screen and press OK/Enter to open the selected menu field.

Use the Cancel key to exit a menu (and return to the Home screen) undoing any changes. Use the Back key to go just one step back.
Video Calls
Video Calls

Place a Call From the Contact List

1. Make sure **Call** is selected (the leftmost icon along the bottom of the screen) and press **OK** on the remote control or press the green **Call** button on the remote control.

2. The Contact list appears. Use the **Cursor** keys on the remote control to navigate between **Favorites**, **Recents** and **Directory** (horizontally) and then down in one of the lists.

3. Once an entry has been located, press **OK** on the remote control to invoke the **Call** menu.

4. In the Call menu, press **OK** or the green **Call** button on the remote control to place the call.

5. Press the red **End Call** button on the remote control, or use the **Cursor** keys to select **End Call** on the screen and then press **OK** to terminate the call.

About List of Contacts

Your list of Contacts consists of three parts:

- **Favorites**. These contacts have been added by you. These entries are typically those you call frequently or otherwise need to access in a swift and convenient manner from time to time. A favorite is denoted by a golden asterisk.

- **Directory** is typically a corporate directory installed on your device by your video support team.

- **Recents** is a list of calls you have placed, received, or missed earlier.

The following options apply:

- You can key in a name, number, or an IP address and the device looks in all lists for you.
- You can select a tab and then scroll through the list or key in a name or number. Your search is then restricted to that specific list.
- You can add the entry to the list of Favorites; edit aspects of the entry before calling and/or change the call rate (the bandwidth applied to the call).
Video Calls

Edit a Contact Before the Call

1

Make sure Call is selected (the leftmost icon along the bottom of the screen) and press OK on the remote control or press the green Call button on the remote control.

2

Use the Cursor keys on the remote control to navigate between Favorites, Recents and Directory and then down in one of the lists.

3

Once an entry has been located, press OK on the remote control to invoke the Call menu.

4

Use the Cursor keys on the remote control to navigate to the More field (⋯) and press OK.

5

Navigate down to Edit and Call (center field in the More menu) and press OK.

6

Edit the entry as required and press the green Call button on the remote control to place the call.

About Editing

For more on the Contacts list, see the previous page.

You may need to edit an entry in one of the lists of Contacts before you place the call, such as to add a prefix, a suffix, or otherwise alter the entry to ensure success.
Call rate is the term used to express the amount of bandwidth allocated to the call. It’s measured in kbps (kilobits per second).

The higher the call rate is, the better the quality is, but on the expense of higher bandwidth consumption. The device comes with a default call rate. This is normally set by your video support team. Under normal conditions the call rate is adjusted automatically by the device, whenever needed. This is done to avoid choking the video call when you try to call someone at a higher rate than their device and connection support.

If the automatic call rate setting fails, you can also do this manually as a last resort. Call rate cannot be changed during a call, but you may change it just before you place a call, as shown at left.

Video Calls

Edit the Call Rate, then Place the Call

Make sure Call is selected (the leftmost icon along the bottom of the screen) and press OK on the remote control or press the green Call button on the remote control.

Use the Cursor keys on the remote control to navigate between Favorites, Recents and Directory and then down in one of the lists.

Once an entry has been located, press OK on the remote control to invoke the Call menu.

Use the Cursor keys on the remote control to navigate to the More field (...), and press OK.

Move down to Custom call and press OK.

Use the Cursor keys as required and press the green Call button on the remote control to place the call.
Video Calls

Place a Call Using Name, Number, or IP-Address

1. Make sure Call is selected (the leftmost icon along the bottom of the screen) and press OK on the remote control or press the green Call button on the remote control.

2. Use the Cursor keys to navigate to the Search or Dial field at the top of the menu. Press OK.

3. To enter numbers select 123.

4. To use the virtual keyboard, navigate down to and about the keyboard and select characters. Press OK to select a character.

5. Then press the green Call button on the remote control to place the call. Alternatively, navigate to the Call icon and press OK.

6. Press the red End Call button on the remote control, or use the Cursor keys to select End Call and then press OK to terminate the call.

About Placing Calls

You can call someone who is not listed in your list of contacts by keying in their name, address or number using the virtual keyboard. Anyone you have previously called appears in the Recents list and you can then add any of them to your list of Favorites. This is described in the section Contacts.

Call Using Video Address

The procedure when using an IP type video address to call someone is similar. Just key in the address and use * (the asterisk button in the lower left corner on the remote control) as separator. The device interprets this as a valid IP address separator so that the video address appears as correctly entered.
Add Additional Participants to an Existing Call

Video Calls

In a call, navigate to Add and press OK on the remote control. This will put the current call on hold. The calls are now merged together.

Locate the participant to be added in the usual way. Press OK. Repeat the process to add more participants, if needed.

Navigate to Add and press OK to expand the call into a conference. Press the red End Call button on the remote control, or use the Cursor keys to select End Call and then press OK to terminate the call.

About Video Conferences

Your network may be equipped with the capability to initiate a video conference with several participants. The maximum number of participants supported by your video device depends on device configuration and the video infrastructure. If in doubt, contact your video support team. If you want to initiate a video conference, you must call each participant one by one. If you are the one who initiated the conference, you can end the entire conference. The other participants can only disconnect themselves from the conference.

About
About Video Conferences

The ability to conduct a video conference from your video device is an optional feature that may, or may not, be available for your device.

Video Calls

Disconnect a Participant From a Conference

1. In a call, navigate to the Participants icon in the upper right corner, as shown, and press OK to invoke the list of participants.

2. Navigate down to the participant to be dropped from the conference and press OK.

3. Navigate to Remove from call and press OK.
If Someone Calls You

- If someone calls you, you can accept, decline or ignore the call.
- If you decline the call, busy information is sent to the caller.
- If you ignore the call, the caller perceives this as if you were absent (you didn’t pick up the call).
- Your video infrastructure may allow you to receive multiple incoming calls. Consult your video support team, if needed.

You can also use the Call keys below the circular buttons on the remote control directly (the green left key to accept the call and the red right key to decline).
Receive Additional Calls While Already In a Call

If you are already in a call, and someone calls you, you can decline the call, add the caller to the existing call, or put the existing call on hold while receiving.
Video Calls

Transfer an Ongoing Call

1. Navigate to Transfer and press OK on the remote control. This will cause the current call to be put on hold.

2. Search for whom to call in the usual way.

3. Select the green Call icon and press OK or use the green Call button on the remote control.

4. Talk to the person to confirm that transfer is OK to do. The person to be transferred is still on hold. Select Complete Transfer and press OK on the remote control.
Video Calls
Change the Layout of the Screen

1. Navigate to Layout in the upper right corner and press OK on the remote control. This icon only appears when relevant.

2. Use the Cursor keys to navigate to the new layout you would like to use and press OK.

About Layout

Whenever you share content or you are in a video conference, you can change the layout of the video shown on the screen. Your device can’t initiate video conferences unless certain infrastructure exists in your organization. If in doubt, consult your video support team.

You can, however, be invited to a video conference by others. The ability to change the screen layout is then available.

Note that the layout change options offered by the device depend on the context and number of participants. Any changes you make here do not affect the others.
In a CMS meeting you can pin a meeting participant to show up as important for all the meeting participants. This way that participant or meeting room shows up on everyone’s screens even when they are not the active speaker.

When you pin a speaker, a notification that they have been pinned shows up on their screen. Similarly, when you unpin them, they see a notification that they have been unpinned.

If you pin an audio-only participant, this will not affect the layout.

By default only the host can pin for all, but the meeting organizer can change this in the meeting settings.

You can pin a speaker for the whole meeting only in CMS meetings.

### Video Calls

#### Pin a Speaker in a Meeting

1. In a call, navigate to the Participants icon in the upper right corner, as shown, and press OK to invoke the list of participants.

2. Navigate down to the participant to be pinned in the conference and press OK.

3. Navigate to Pin for all and press OK.

### About Pin a Speaker

In a CMS meeting you can pin a meeting participant to show up as important for all the meeting participants. This way that participant or meeting room shows up on everyone’s screens even when they are not the active speaker.

When you pin a speaker, a notification that they have been pinned shows up on their screen. Similarly, when you unpin them, they see a notification that they have been unpinned.

If you pin an audio-only participant, this will not affect the layout.

By default only the host can pin for all, but the meeting organizer can change this in the meeting settings.

You can pin a speaker for the whole meeting only in CMS meetings.
Your device can be set up so that it doesn’t respond to incoming calls. When set to Do Not Disturb, ringtones are muted and call attempts made by others to reach you appear as missed calls. You can, however, place calls.

As default, there is a 60 minutes timeout on the Do not disturb (after which the device returns to normal operation), but this may have been changed to a different setting by your Video Support Team.

**Enable Do Not Disturb**

1. Starting from Home screen, use the **Cursor** keys on the remote control to select the More icon (>) in the upper left corner of the screen.

2. Press **OK** on the remote control.

3. Use the **Cursor** keys on the remote control to navigate down to Do Not Disturb and use the **OK** button on the remote control to set it to On or Off (toggling).

4. Press the **OK** key on the remote control to exit the menu, putting changes into effect.

**About Do Not Disturb**

Your device can be set up so that it doesn’t respond to incoming calls. When set to Do Not Disturb, ringtones are muted and call attempts made by others to reach you appear as missed calls. You can, however, place calls.

As default, there is a 60 minutes timeout on the Do not disturb (after which the device returns to normal operation), but this may have been changed to a different setting by your Video Support Team.
Video Calls

Enable Standby

1

Starting from Home screen, use the Cursor keys on the remote control to select the More icon (>>) in the upper left corner of the screen.

2

Press OK on the remote control.

3

Use the Cursor keys to navigate down to Standby.

4

Press the OK key on the remote control to exit the menu, putting changes into effect.

About Standby

Your device can be set to Standby to save power. You can still receive calls as usual.
Your video support team may have activated the option of forwarding all calls received. You can then choose between voicemail and a receiver appointed by you.

If you select Forward all calls, the familiar Call menu appears and you can choose the number that receives your calls.

Starting from Home screen, use the Cursor keys on the remote control to select the More icon (►) in the upper left corner of the screen.

Press OK on the remote control.

Use the Cursor keys to navigate to Forward all calls to... If you want to forward all calls to Voicemail instead, navigate to Forward all calls to Voicemail, press OK and you are done.

Choosing Forward all calls to... opens the Call menu. Select whom to receive all calls in the same way as if you were about to call that person.
Video Calls

Find Call Details for Recent Calls

1. Make sure Call is selected (the leftmost icon along the bottom of the screen) and press OK on the remote control or press the green Call button on the remote control.

2. Use the Cursor keys on the remote control to navigate to the Call menu.

3. Once an entry has been located, press OK on the remote control to invoke the Call menu.

4. Use the Cursor keys on the remote control to navigate to the More field (⋯) and press OK.

5. Navigate down to Call details and press OK.

6. Use the cursor keys to scroll through the call information pane.

About Call Details

If you need to troubleshoot a recent call, you can find the call details from the recent calls list.
Intelligent Proximity
Cisco video devices emit ultrasound as part of the Proximity feature. Most people are exposed to ultrasound more or less daily in many environments, including industry, commercial applications and home appliances. Even if airborne ultrasound may cause subjective effects for some individuals, it is very unlikely that any effects will occur for sound pressure levels below 75 dB. Guidelines for ultrasound exposure limits vary heavily between countries, but 75 dB is the lowest limit presently found for the frequency band around 20 kHz, which is where the Cisco proximity signal is emitted.


These guidelines state that sound pressure levels lower than 120 dB have not been demonstrated to cause hearing losses, neither permanently nor temporarily. For Cisco video devices for group use with integrated loudspeakers the ultrasound sound pressure level is below 75 dB at a distance of 50 cm or more from the loudspeaker.

In most practical cases the level at the ear of the user will be much lower than these max levels, due to loudspeaker directivity, distance attenuation, and high degree of high frequency absorption in typical rooms. The levels will range from what for audible sound would be typical background / ambient noise levels in meeting spaces up to so-called conversational levels of normal speech.

It is therefore deemed safe for humans to be continuously subjected to the proximity signal. Most people will not be aware of the presence of the signal, and suffer no effects from it. A few individuals with especially acute high frequency hearing can, however, be able to hear it; this is most likely to happen directly in front of and close to the loudspeaker. It is obvious that animals like dogs will hear the proximity signal, since their frequency range of hearing is so much wider. However, the effect of sound is also level dependent, and the level range of a dog’s hearing is not significantly different from that of a human. The hearing threshold of dogs at 20 kHz can be as low as 0-10 dB, similar to the threshold of a human ear in its most sensitive frequency range.

Cisco has not done testing or qualification of the possible effects the signal can have on dogs. Due to the limited levels it is believed that while the signal is clearly audible it is not bothersome to dogs.

A dog in an office or meeting room will be subject to ultrasound at levels comparable to normal background noise, or at most conversational levels. There has been no reports of animals being bothered by the signals in the years we have had this feature in our products. However, the question of ultrasound effect on dogs is fair, since dog repeller devices using ultrasound do exist. These devices typically claim to use discomforting, but not harmful ultrasound. Cisco does not have insight into dog repeller design, but scanning the specifications of such devices typically reveals that the exposure levels typically are 100 dB and upwards.

For solutions using Cisco video codecs with 3rd party loudspeaker systems Cisco is not able to control the ultrasound sound pressure level. In most cases the necessary loudspeaker sensitivity and frequency response will result in levels below the 75 dB limit. However, if excessive external amplification is applied, or the loudspeaker system has an emphasized high-frequency response, levels in excess of the limit can be produced.

The Intelligent Proximity feature allows you to share content from a computer wirelessly on the video device. Smart phones and tablets are also able to view the shared content directly on their own screens. You can even use your own smart phone, tablets, PC or MAC to control calls on the video device.

**Observe the following:**

You will need to download (free of charge) the Cisco Intelligent Proximity app from App Store or Google Play.

Windows or OS X users, go to https://proximity.cisco.com/.

Your video support team may have activated none of the features, all of them, or just a subset of them.

**Intelligent Proximity makes use of ultrasound when connecting users** (see more at left). Do not block the microphone of your computer, smart phone or tablet.

**Intelligent Proximity has been designed not to work outside the meeting room when doors to the room are kept closed. You will need to be in close proximity of the video endpoint to use the feature.**

When privacy dictates, always keep the meeting room entrance doors closed to avoid possible eavesdropping from adjacent rooms.
Content Sharing
Content Sharing

Start and Stop Presentation

1. Make sure your presentation source is connected and On. You may need to select Share and press OK on the remote control.

2. You may now select Local preview to inspect the contents without sharing it with the others, before you select Share in call to share it with the others.

3. The size of the shared image is controlled by means of the Minimize/Maximize icon. Select this and press OK on the remote control, if needed.

4. To stop sharing content, select Stop sharing and press OK on the remote control.

About Content Sharing

Use this feature to share content on your PC in a call or outside a call. The procedure is the same, but shown here is the in-call way only. To share content using Proximity, make sure your presentation source has Cisco Proximity installed and activated. Allow some time for the pairing to take place. Follow on-screen instructions.
Content Sharing

Change Presentation Layout In a Call

1. Navigate to Layout in the upper right corner and press OK on the remote control. This icon will appear only when relevant.

2. Use the Cursor keys to navigate to the new layout you would like to use and press OK.

About Presentation Layout

You can change the layout of the screen during presentations. Typically you can choose between with or without showing the presenter and showing the presenter as either a PiP (Picture in Picture) or PoP (Picture outside Picture).

The layout options available on your device may differ from those shown here, but the layouts shown are always those you may choose between.
Scheduled Meetings
Scheduled Meetings

Join a Scheduled Meeting

Your video device may be connected to a management system capable of scheduling video meetings. Any scheduled meetings then appear as shown at left. Use Join to participate in the meeting. If the meeting has already started, the Join button is still available. There may be a Snooze icon available. Use this icon to postpone the offer to join for another 5 minutes.

A meeting allowing you to join in, can be joined by navigating to the green Join icon. Then click OK on the remote control.
Contacts
Contacts

Add Someone to Favorites, Outside a Call

1. Make sure Call is selected (leftmost field along the bottom of the screen) and press OK or the green Call button on the remote control.

2. The Call menu opens. Use the Cursor keys to navigate between Recents and Directory (the two rightmost) and then down in one of those lists.

3. Once an entry has been located, press OK on the remote control to invoke the Call menu and use the Cursor keys to navigate to More (…) Press OK.

4. Then use the Cursor keys to navigate to Mark as Favorite. Press OK on the remote control to make the selected entry a favorite.

Repeat this procedure to remove someone from the list of Favorites.

About Directory, Recents and Favorites

The Directory serves as your corporate phone book. This directory can’t be edited by you. You can copy entries to your list of Favorites and edit them there.

Select a folder to show its contents. Scroll, if needed, to locate a folder or an entry within a folder.

When searching within the corporate Directory, the search applies to the current directory folder and its subfolders only. To go one level up, navigate back. To make the search apply to the entire corporate directory, do not select any folder before you search.

It may happen that an entry copied from the directory to the list of favorites later is updated in the directory. This update isn’t reflected in your list of favorites—you must then manually update the entry in the list of favorites. Use Edit and Call for this.
Add Someone to Favorites, While in a Call

1. In a call, use the remote control to navigate to the Participants icon in the upper right corner, and press OK on the remote control.

2. A menu showing a list of the participants in the call opens. Use the Cursor keys to navigate to the participant to become a favorite and press OK on the remote control. A submenu opens.

3. Then navigate to Favorite in this submenu (far left) and press OK on the remote control. The selected participant has now become a Favorite. Repeat to undo.

About Favorites

Favorites is your own personal directory. Entries can come from the corporate directory (for more on this, see the previous page) or from someone you call or someone who calls you.
Camera Control
Camera Control

View Camera Settings (Local camera)

1. In a call or outside a call (as shown here), move cursor up to the upper right corner to the Camera icon. Press OK on the remote control.

2. The camera icon appears. Press OK again on the remote control.

3. Adjust the pan, zoom, and tilt of the camera. Use the Increase/Decrease controls of the remote control to adjust the zoom and the Cursor keys to adjust pan and tilt.

4. You can make the self-view image sticky (always shown) and/or maximize it by selecting the icons in the upper right corner of this menu. Press Back on the remote control to exit the menu.

About Camera Settings

The camera settings let you control the zoom, pan, and tilt of your own camera. The self-view (the image that the others see from your device) can be turned on and off as well as be shown minimized or maximized (full screen). You may want the self-view to be always shown, this is called to make it sticky.
Camera Control

Far End Camera Control

1. Navigate to Participants in the upper right corner and press OK on the remote control.

2. A menu showing a list of the participants in the call will now appear. Navigate to the participant, whose camera you want to control and press OK on the remote control. A submenu will now appear.

3. To control the far end camera navigate to Camera (number two from the right) and click OK on the remote control.

4. Adjust Pan, Tilt and Zoom as per your liking. Use OK or Back on the remote control to exit.

About Far End Camera Control

Many video systems have a remotely controllable camera. Such systems allow you to use a remote control to change pan, tilt, and zoom.

If the far end (those you are in a meeting with) have such a system, you may be able to control their camera during the call.
Camera Control

Move the Selfview PiP

1. With self-view activated or a layout involving a picture-in-picture, navigate to Layout in the upper right corner and press OK on the remote control. The Layout icon appears only when relevant.

2. The layout menu opens. Press the down Arrow of the Cursor keys on the remote control to navigate to the self-view image.

3. The self-view image turns blue to show that it has been selected. Click OK on the remote control. Arrows appear to indicate that the self-view image can be moved. Possible new locations are indicated.

4. Use the Cursor keys on the remote control to move the image. Press OK when finished.

5. The image on the screen changes to its original size with the self-view in its new position.

Why Move the Selfview?

Selfview shows what others see from your video device. You can use it to confirm that they see what you want them to see.

The selfview appears as a PiP (Picture-in-Picture). From time to time you may want to have the selfview activated during the meeting. This could, for example, be to ensure that you remain seen on the screen.

It may happen that the current position of the selfview blocks important parts of the image on your screen. Change the selfview position to view those important parts.
Camera Control

Turn Camera On or Off

1. Navigate to Turn video off, as shown, and press OK on the remote control.

2. The icon turns red to indicate that the camera is no longer transmitting video. Click again to reactivate the camera.

About Video Off

The video turn off feature has been designed to let you control the video transmission from your camera on devices that do not have the option of mechanically blocking the camera.
Settings
To gain access to the Settings menu, navigate to the upper left corner of the screen and press **OK** on the remote control. Then navigate down to System Information (number two from the bottom of the menu) and press **OK** again.

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From the **Settings** menu you can check device information and change several settings. Which settings are available may have been restricted by your administrator.

You can change the ringtone and volume, restart the device, and find device information among other things.

The available settings depend on which you product you have and what has been enabled by your administrator.