

# TrueConf Videobar

User guide



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# 1. Purpose and general overview

**TrueConf Videobar** is a portfolio of video conferencing endpoints designed for huddle rooms. It is an all-in-one solution that features a built-in webcam, a microphone array and specialized firmware.

For a complete list of supported features, see the [TrueConf Videobar Features](#) section.

The portfolio offers two options:

- TrueConf Videobar 010
- TrueConf Videobar 015

**TrueConf Videobar 010** is a more compact device with above-display mounting. It is equipped with a built-in camera and a microphone array, USB ports for connecting peripherals, two HDMI outputs, Bluetooth, Wi-Fi and LAN ports for connecting to the Internet.

TrueConf Videobar 010 front panel:



TrueConf Videobar 010 interface panel:



**TrueConf Videobar 015** includes all the features of TrueConf Videobar 010 model and provides a number of additional advantages:

- Panning camera mount
- HDMI port for capturing and displaying content in a meeting
- More mounting options: above or below the room display using VESA mount.

TrueConf Videobar 015 front panel:



TrueConf Videobar 010 interface panel:



## 1.1. Comparison table

Model	TrueConf Videobar 010	TrueConf Videobar 015
Range of use	Huddle rooms and small meeting rooms	
Conferencing modes	Point-to-point video calls and group video conferences	
<b>Key differences</b>		
Mounting	Above the screen	Above or below the screen using a VESA mount
Panning camera mount	No	Yes
Camera sensor	1/2.5", CMOS	1/2.5", 4K CMOS
Digital zoom	4X	4X, ePTZ (coming soon with a firmware update)
HDMI input	Her	1 × HDMI input
Microphone	Built-in 2-mic array	Beamforming 4-mic array
Dimensions	222 × 93.2 × 56.5 mm	408 × 75 × 89 mm
<b>Camera and lens</b>		
Video encoding	Coding/decoding: 1080p @ 30 fps, H.264, VP8	
Focal length	3.24 mm	
Angle of view	94.8°	
Noise reduction (DNR)	2D/3D digital noise reduction	
White balance	Auto / Manual / Fluorescent / Incandescent / Daylight / Cloudy	

Exposure	Auto / Manual
Video settings	Saturation, contrast, sharpness, wide dynamic range
Signal-to-noise ratio (SNR)	> 55 dB
<b>Hardware</b>	
Platform	Snapdragon 625
CPU	8x ARM Cortex A53, Octa-core CPU, 2.0 GHz, 64-bit architecture
GPU	Qualcomm Adreno 509, OpenGL ES 3.1+
DSP	Qualcomm Hexagon DSP, Qualcomm All-Ways Aware
RAM	LPDDR3, 2.0 Gb, 933MHz
Storage device	eMMC 5.1, 16 Gb
<b>Interfaces</b>	
HDMI output	1 × main HDMI output (with audio stream) 1 × additional HDMI output (screen mirroring, no audio stream)
USB port	2 × USB 2.0 for connecting peripherals (speakerphones, webcams, etc.)
LAN	100/10BASE-TX
Wi-Fi	802.11ac (2.4G and 5G supported)
Bluetooth	Bluetooth 4.1
Audio	Analog input and output (3.5 mm jack)
Remote control	Built-in 2.4 GHz wireless receiver
<b>Physical specifications and package</b>	
Power supply	AC 110 - 220 V, DC 12 V/1.5A, HEC3800 connector Power consumption up to 12 W
Temperature and humidity requirements	-10 °C ~ +50 °C; 20 ~ 80%
Supplied accessories	User manual, warranty card, power adapter, remote control

## 2. Setting up

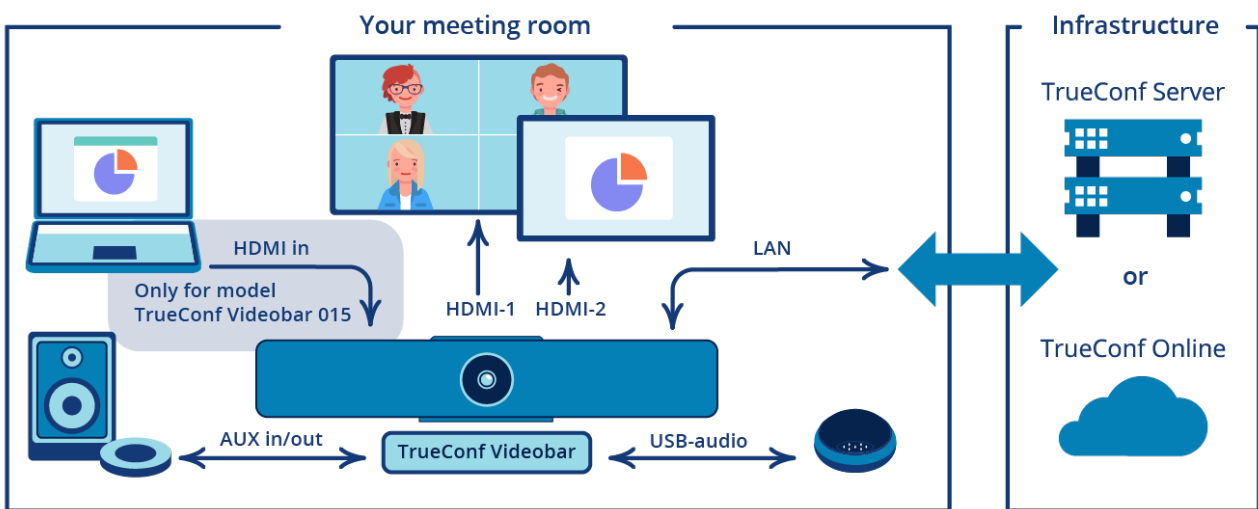
### 2.1. How to connect

Connect the power cable, network interface, monitor and audio output devices (headphones, speakers or output audio via HDMI to a monitor with built-in speakers) to your video conferencing endpoint.

**i** If you need to output audio via HDMI, please use **HDMI out 2**, as **HDMI out 1** doesn't support audio stream output.

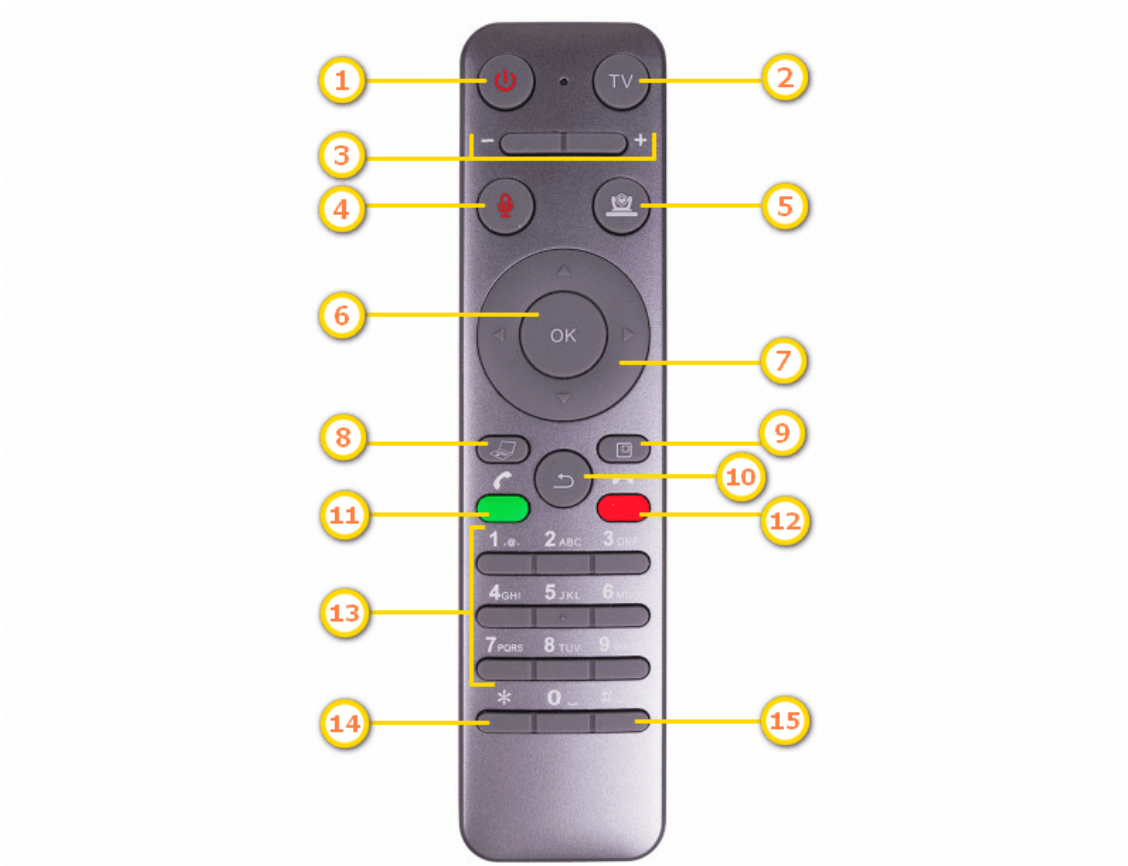
You can also connect the following devices:

- Additional monitor
- External webcam and microphone
- Content display device (for TrueConf Videobar 015).




### 2.2. Remote control buttons

You can manage your endpoint using the remote control powered by two AAA batteries (included in the package). It uses a 2.4 GHz band that helps enhance the control range and usability as compared to IR remotes.



1. Turn on the endpoint.
2. Programmable button.
3. Adjust the speaker volume.
4. Mute the microphone
5. Disable the camera
6. Go to the selected menu item or activate the interface button.
7. Arrow buttons — navigate between interface elements.
8. Switch between camera images being transmitted to the conference (if external cameras are connected via USB) and [content captured via HDMI](#) (for TrueConf Videobar 015).
9. Changing video layouts (coming soon with a firmware update).
10. Return to the previous menu section.
11. Take an incoming call or call a user in the address book/call history.
12. Depending on the usage scenario:
  - Decline an incoming call
  - End a video call
  - Leave a group conference
  - Delete a character before the cursor in the input line, e.g., when [connecting your endpoint to a video conferencing server](#))
13. 0-9 number keys (no T9 support).
14. Depending on the usage scenario:
  - Enter a period in the input line, e.g., when connecting to a video conferencing server
  - [Take](#) and leave the podium in a role-based conference.



15. Make an [audio remark](#) in a role-based conference:
  - By giving this button a single press, you can open the audio remark menu, while you need to press [the OK button](#) to start broadcast and [OK or return](#)  [buttons](#) to stop broadcast
  - Push and hold this button to open the audio remark menu and talk until the button is released.

### 2.3. Managing multiple endpoints using a single remote control

You can manage several TrueConf Videobar endpoints simultaneously using a single remote control. To do it, you should bind your remote control with each device as follows:

1. Press the **OK** and [asterisk](#) buttons on your remote control simultaneously and hold them — the LED will start blinking after 3 seconds.
2. Release the buttons — the LED will keep blinking.
3. Turn on the endpoint.
4. If the binding is successful, the LED will be coming on for 2 seconds and then turn off. Otherwise, if there is a pairing error, the LED will be quickly blinking for 20 seconds and then will be slowly blinking for 3 seconds. After that, the remote control will go into sleep mode.

To unbind the remote control from TrueConf Videobar:

1. Turn on the endpoint.
2. Press the **OK** and [hash](#) buttons simultaneously and hold them down on your remote control for 3 seconds — the LED will start blinking.
3. Release the remote control buttons — the LED will turn off, while the device will be unbound. Otherwise, if there is an error, the LED will be blinking for 20 seconds, while the remote control will go into sleep mode.

### 2.4. Starting the endpoint and adjusting network settings

To turn on the device, hold down the power button on the remote control for 2 seconds. The endpoint automatically turns on when power is on.

Once the endpoint has been turned on, the home screen will be displayed on the main display.

The notification bar is located at the top of the screen, where the device status icons are displayed:

- Bluetooth connection
- "Do not disturb" mode (active/inactive)
- Wi-Fi or Ethernet network connection
- Current time.

First of all, you should connect to a network. By default, the device is set to operate in an Ethernet network and automatically receive connection parameters via HDCP. Just plug an Ethernet cable into your endpoint and wait for [the authorization window](#) to appear.

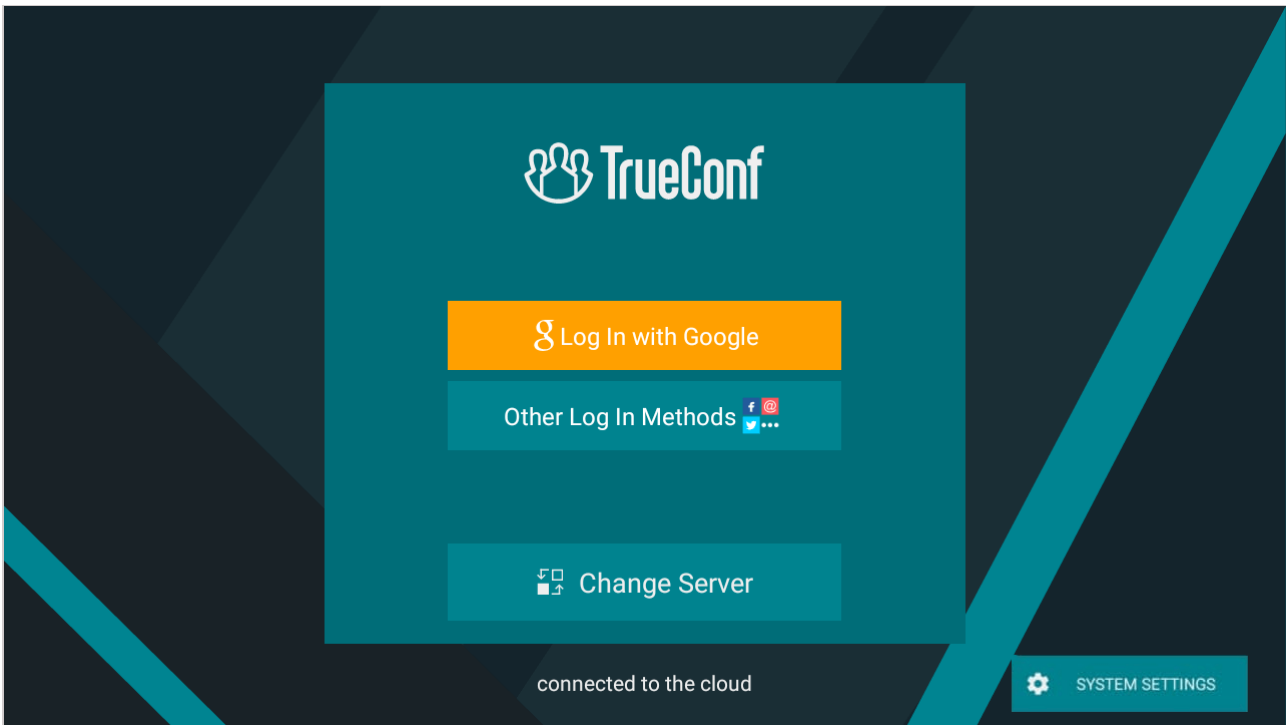


To make sure you enjoy the best audio and video quality, your communication channel should meet our bandwidth requirements. We recommend using a wired connection if possible.

If necessary, you can manually [set up an Ethernet or Wi-Fi connection](#) by going to the system settings in the lower right corner on [the authorization page](#).

## 2.5. Connecting to your video conferencing server

At the first launch of TrueConf Videobar you will be prompted to select the connection server and one of the available sign-in options:

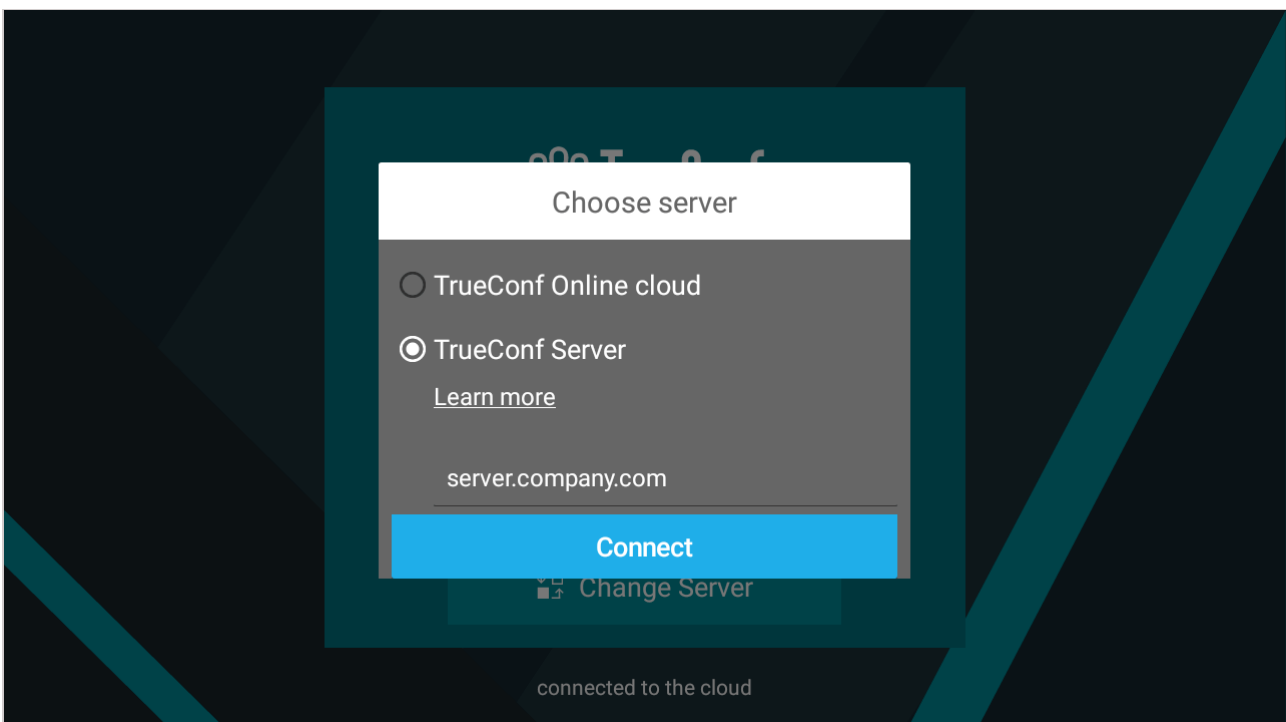


The endpoint can be connected either to [TrueConf Server corporate video conferencing system](#) or [TrueConf Online cloud-based service](#) (set by default).

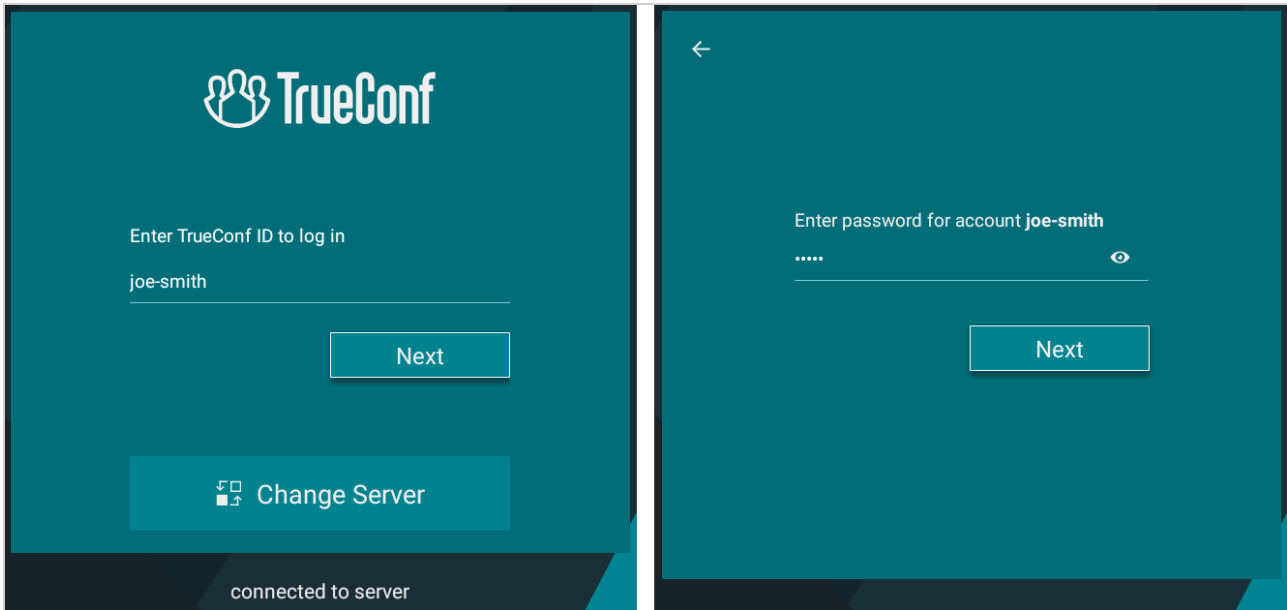
To sign in to a cloud-based service, select one of the available options: using [TrueConf account](#) (can be created on the TrueConf official website), Google account, or one of the social network accounts.

To connect to your TrueConf Server instance, press the **Change Server** button.

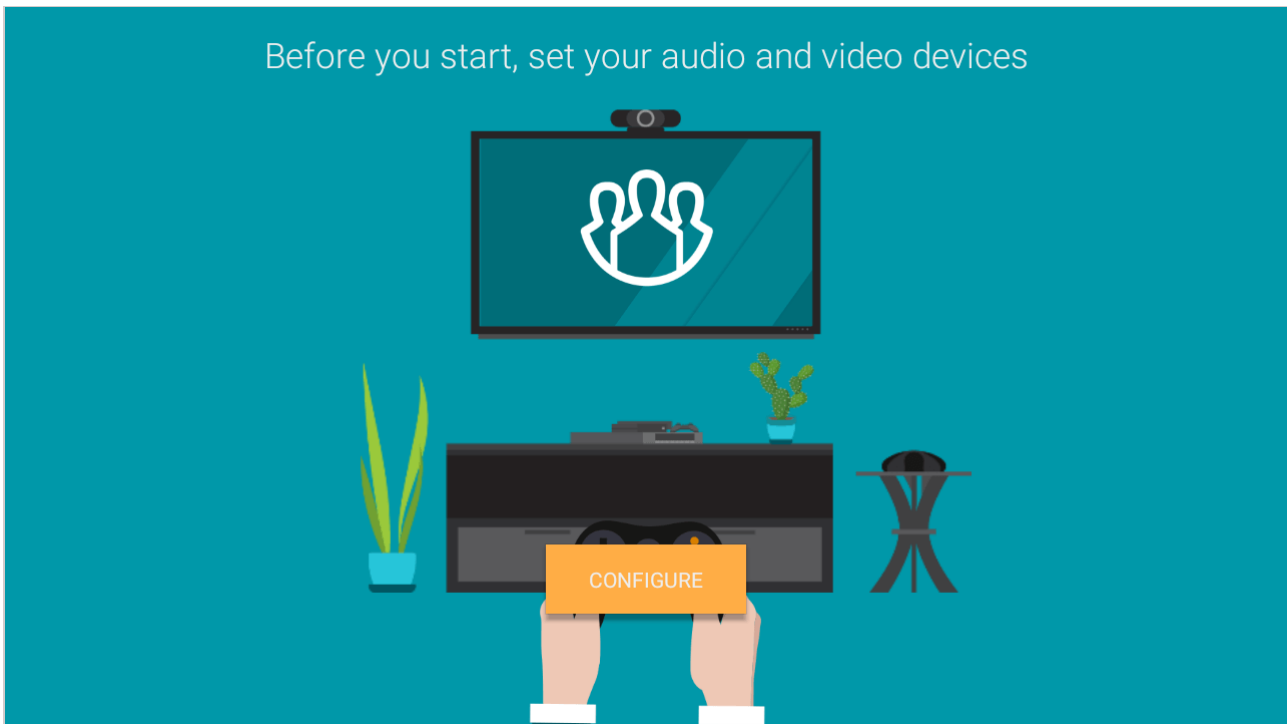
In the pop-up window, choose **TrueConf Server** and enter your server's IP address or domain name, e.g., *server.company.com*. Press **Connect**:



Enter your account credentials: login (TrueConf ID) and password:



When you first start the application, you need to set up the audio and video devices connected to your device:



Besides the built-in microphone array, you can use the following audio capture devices:

- External webcam's microphone
- USB speakerphone or microphone

If necessary, you can [connect and switch to other AV peripherals during a meeting](#).

Allow app permissions to record audio, take photos and videos at the corresponding requests.

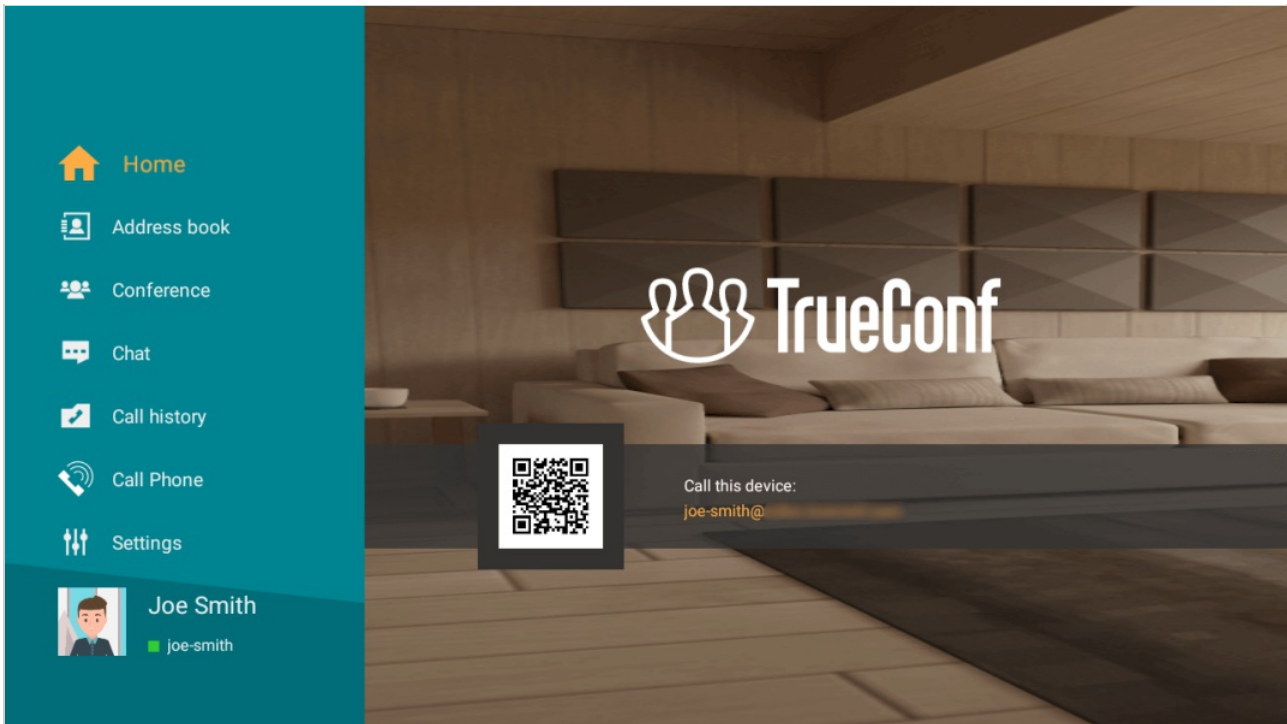
After that the [start screen](#) will open.


## 3. Getting started

TrueConf Videobar offers a user-friendly interface similar to [TrueConf for Android TV](#). You can easily get started with the endpoint without a complicated on-boarding process. However, make sure to get familiar with some additional features, e.g., capturing content via HDMI.

### 3.1. Home page

On the home page you can find the address of your device. You can share it with your contacts to start communication. To do this, you can use your smartphone or tablet's camera to scan the QR code on your home page and forward the link to your friends or colleagues.



Your webcam video is used as a TrueConf Videobar background, which enables you to check on how you look on a video call beforehand. You can enter full-screen mode by pressing **OK** or using the Right Arrow button on your [remote control](#). To exit full-screen mode, press the Left Arrow or the "back"  button.

On the left, you can find the main menu where you can:

- [Receive and make video calls](#)
- [Create group conferences](#)
- [Join video meeting by entering its meeting ID](#)
- [Exchange messages in chat.](#)

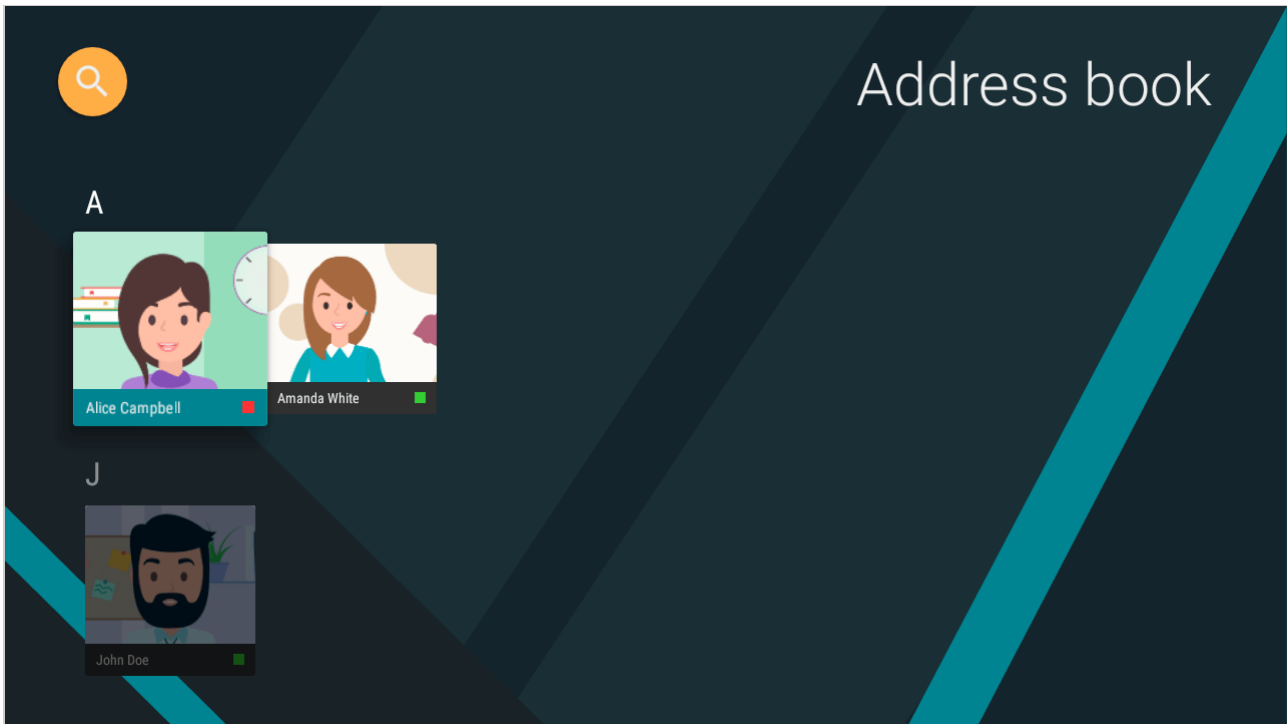
### 3.2. Address book


In the [address book](#), you'll see your contact list if you have filled it beforehand:

- In [TrueConf client app](#)
- In your [personal area \(via TrueConf Server\)](#)
- In your [personal area \(via TrueConf Online\)](#).

\*

Your TrueConf Server administrator could also fill the address book for you in the TrueConf Server control panel.



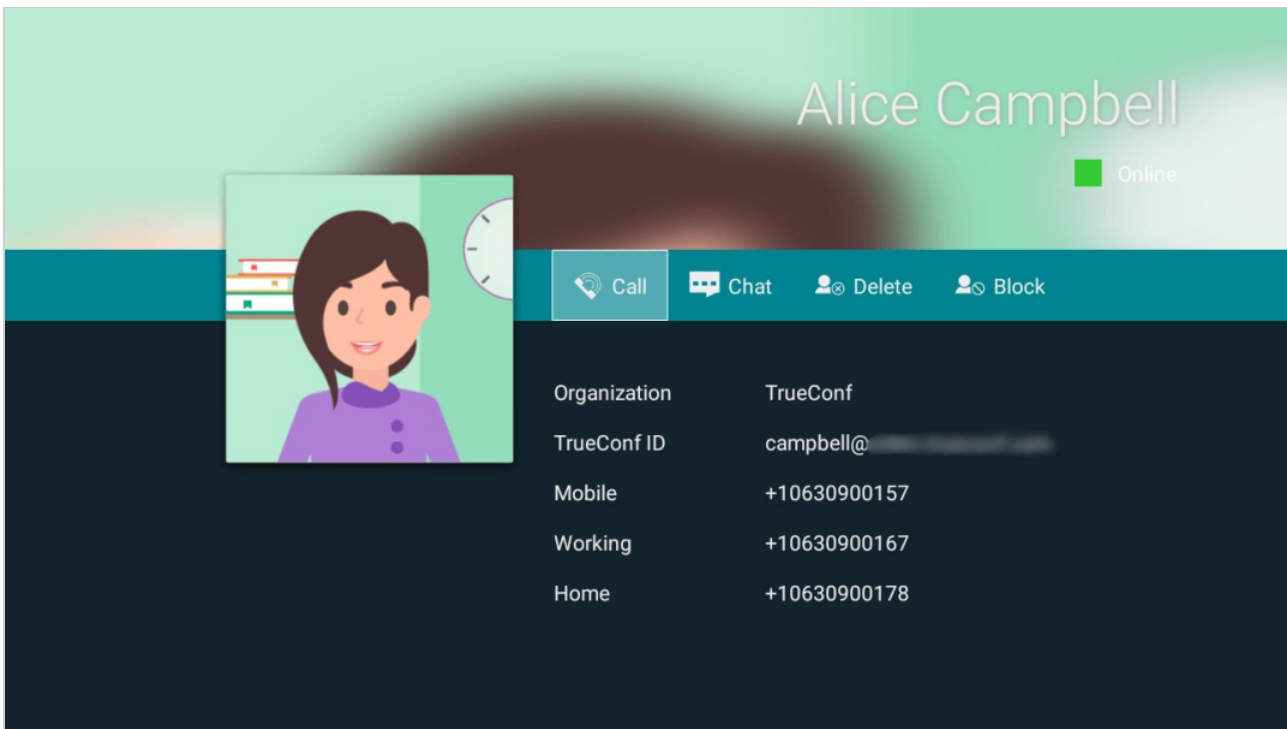
Use the search field button  at the top of the screen to quickly find TrueConf users with their IDs and view their profiles.

### 3.2.1. User profile

To view additional information about a user, select the user in the list and proceed to their profile. You'll see the following information:

- Full name
- TrueConf ID
- Status
- Optional (if specified): company's name and up to 3 phone numbers

In the user profile you can also find buttons to make a call, start chatting, delete the user from your address book or [block the user](#).



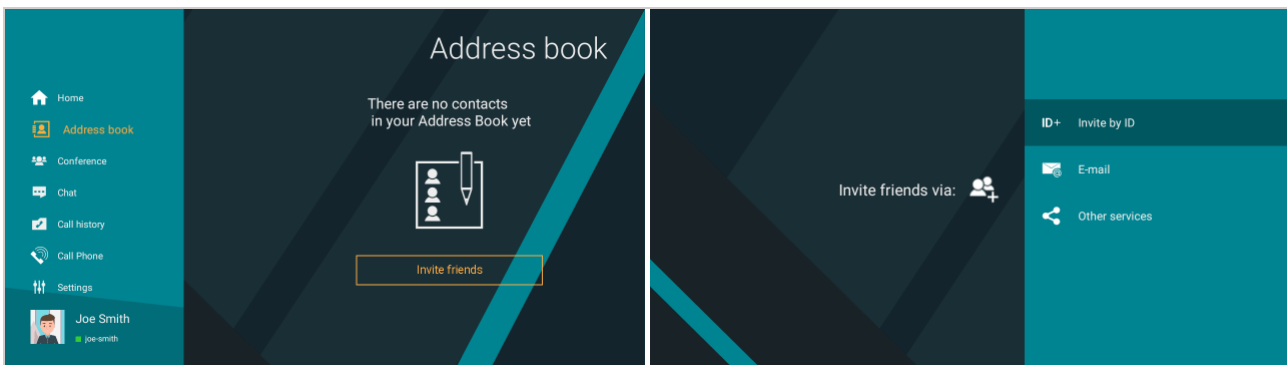
Alice Campbell ■ Online

Call Chat Delete Block

Organization	TrueConf
TrueConf ID	campbell@
Mobile	+10630900157
Working	+10630900167
Home	+10630900178

### 3.2.2. Adding a new contact

If your address book is empty, you can find a button to invite your friends and colleagues, e.g., by TrueConf ID or email:



Address book

There are no contacts in your Address Book yet

Invite friends

Home  
Address book  
Conference  
Chat  
Call history  
Call Phone  
Settings

Joe Smith  
joe-smith

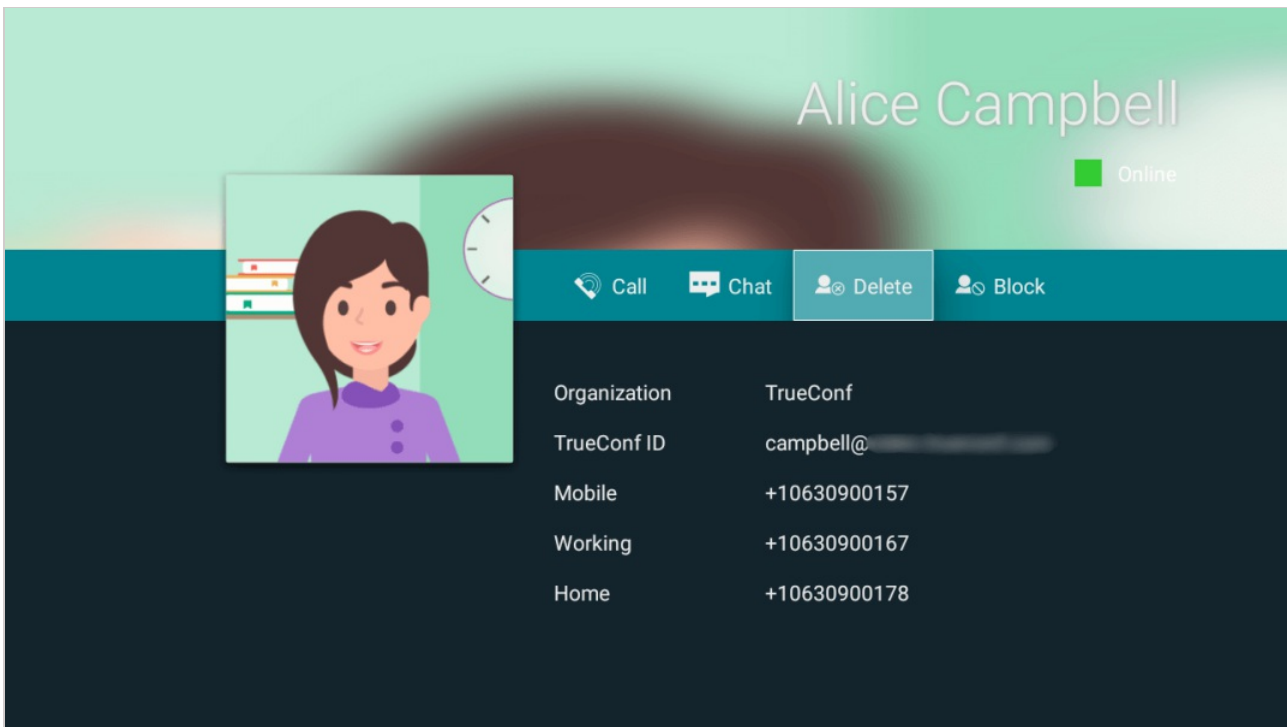
Invite friends via:

ID+ Invite by ID  
E-mail  
Other services

Besides, you can add a user right [during a meeting](#).

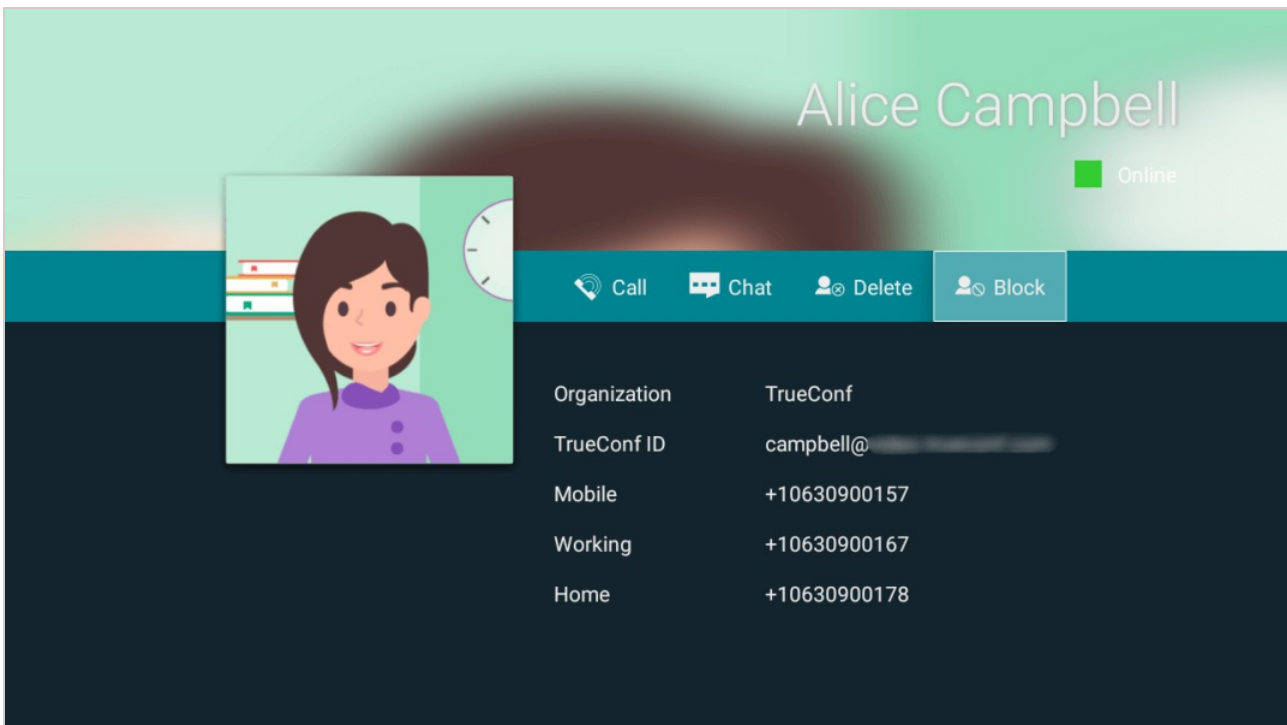
### 3.2.3. Deleting a contact

To delete a user from the address book, proceed to the user profile and press the corresponding button:



### 3.2.4. Blocking a user

Sometimes you may need to prevent some users from contacting you. To this end, you can add a user to the “black list” by pressing **Block** in their profile:



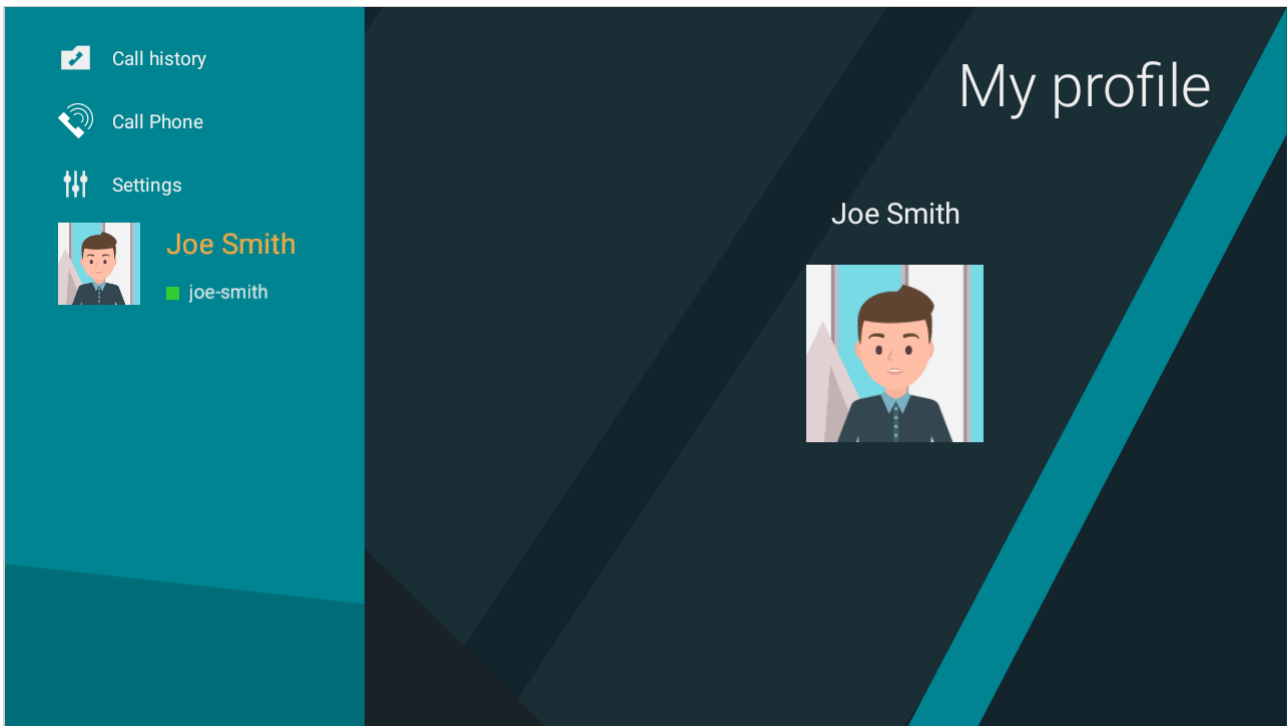
Once you’ve done this, you can see the blocked user in your address book, make calls and invite them to your conferences, but you will be unable to send messages to this user. The blocked user won’t be able to call you, invite you to conferences and send you messages. To unblock a user, press the corresponding button in the [user profile](#).

\*

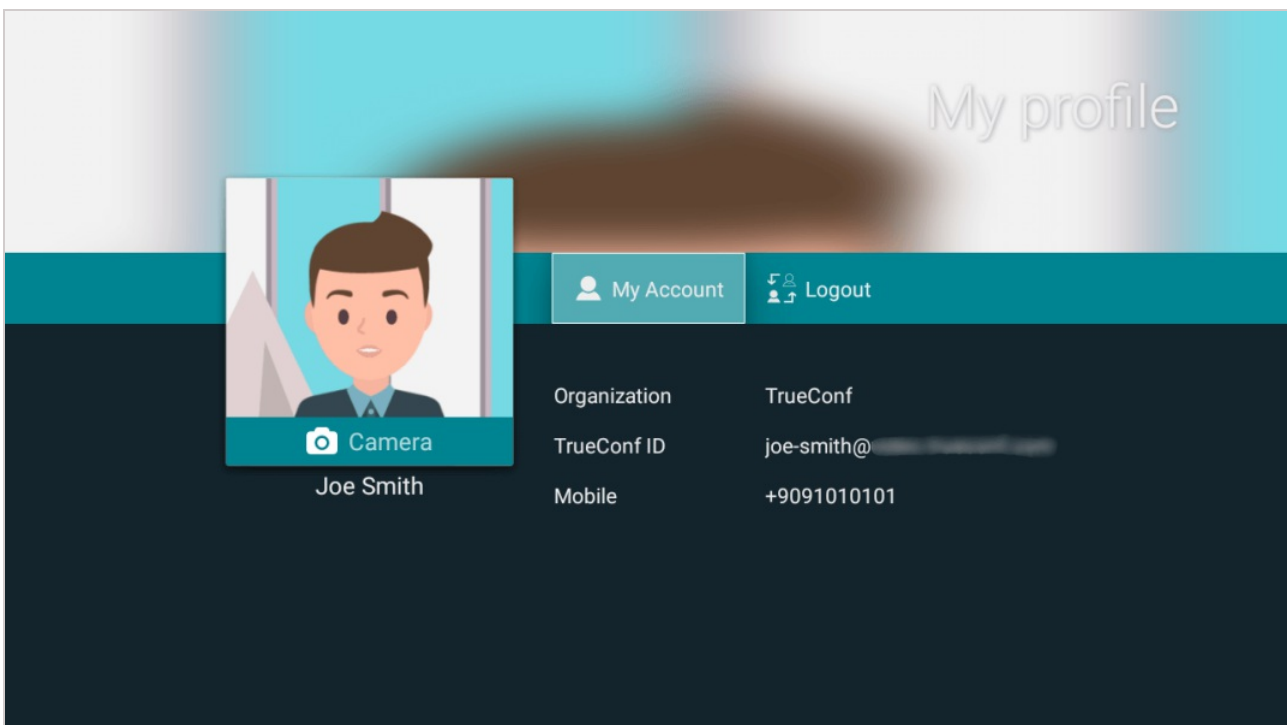
Blocked users will also be displayed on your “black list” when using TrueConf client apps for other platforms.

### 3.3. Viewing your profile

If you'd like to view your personal information, proceed to the bottom of the device menu:



Press **OK** or use the Right Arrow on your remote control to go to your profile. If connected to TrueConf Server, you'll see your TrueConf ID, company name and phone number (if specified):

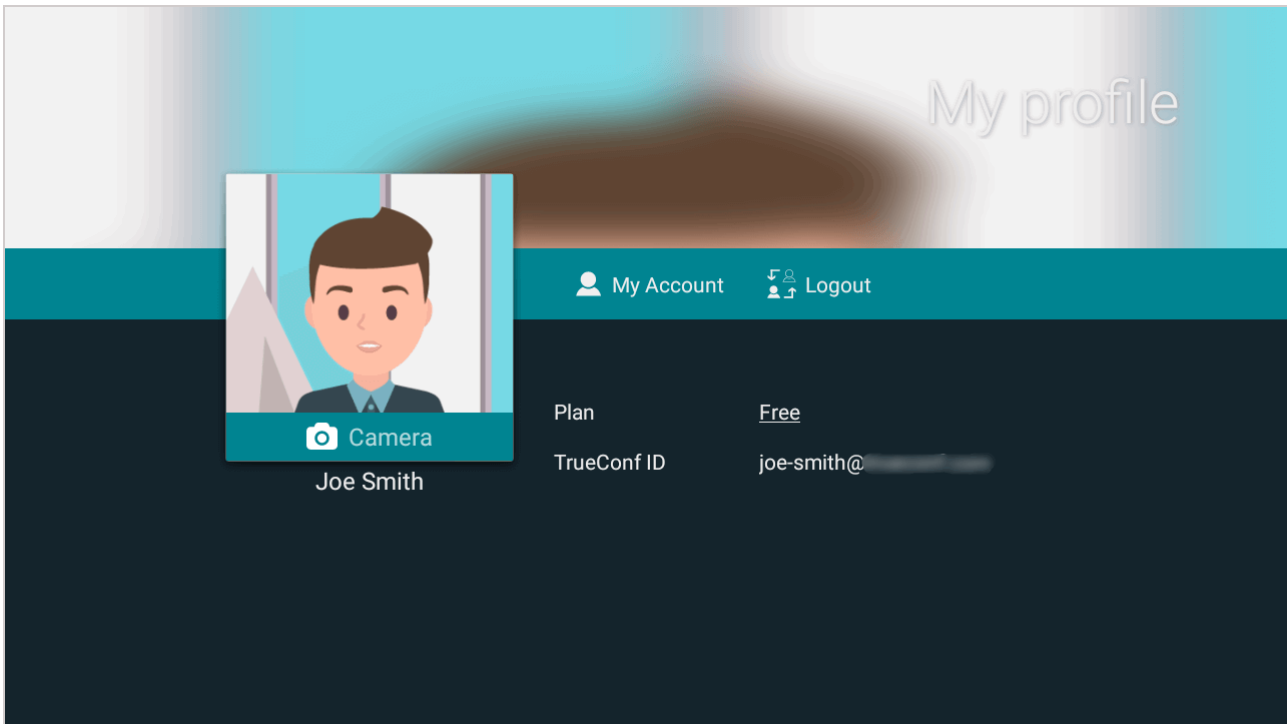


In your profile, you can:

1. Change your avatar by taking a picture with your webcam.
2. Go to your [personal area](#).
3. Switch to another user account (in this case, [login menu will open](#)).



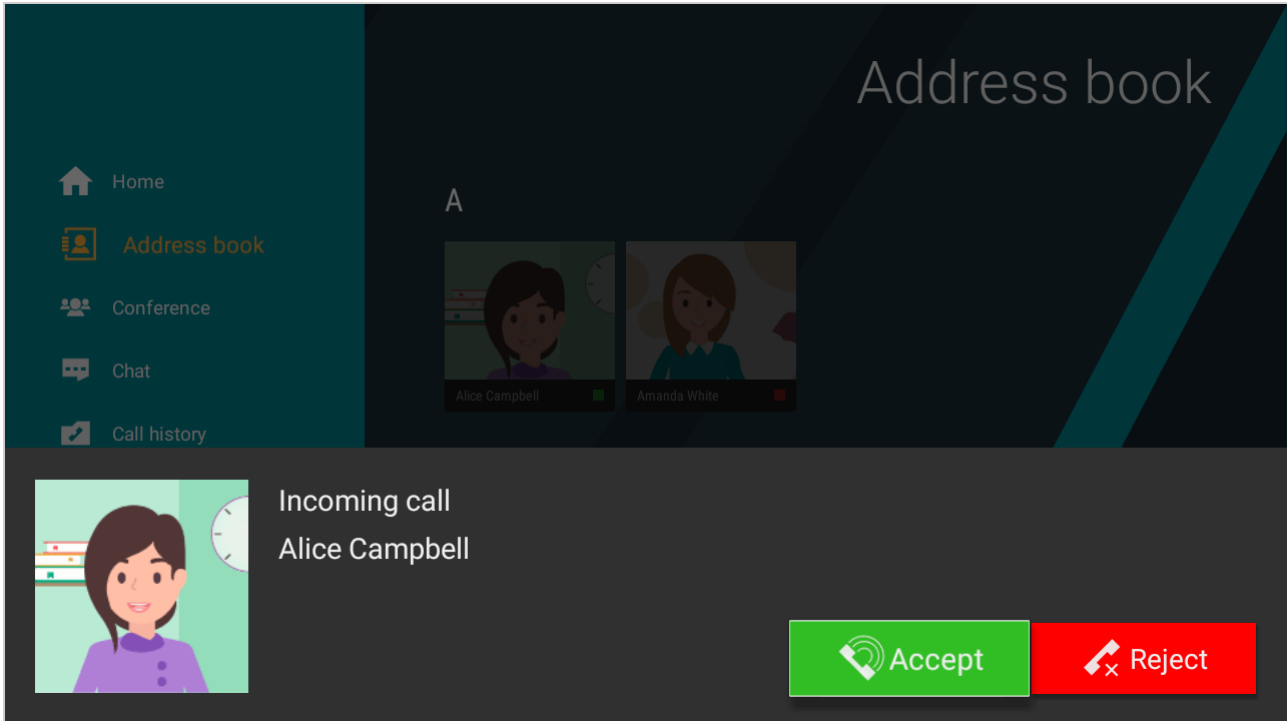
If you're a TrueConf Online user, you'll see your TrueConf ID and plan details:



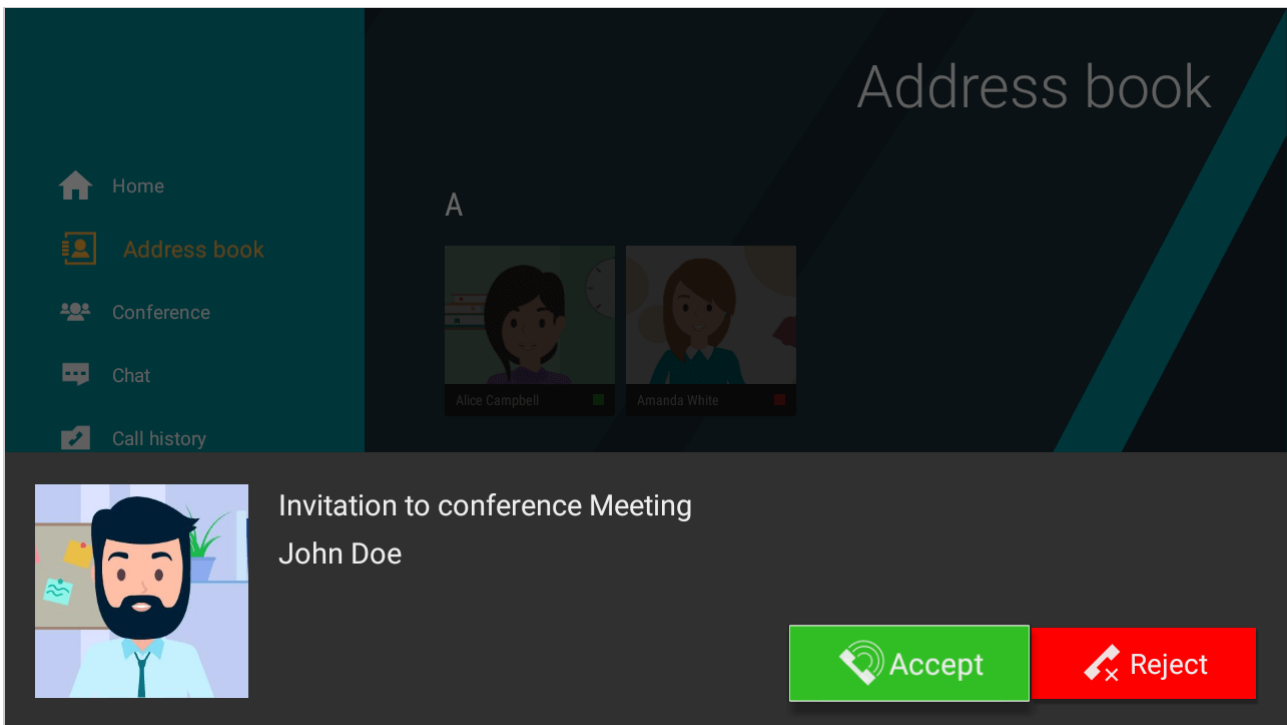
## 4. Video calls and conferences

### 4.1. Incoming calls

You can receive an incoming call with caller's name information displayed while visiting any device menu section:




In a similar way, you can be invited to a video conference. In this case, you'll see the conference title:



### 4.2. Making a call

To call a user, you need to:

1. Select a user in your [address book](#).

2. Press the [call button](#) on the remote control or go to a user's profile and press **Call**.
3. To end the call, use the [hang up button](#) on the remote control or press the  button in the call menu.

During video calls, you have a number of other available options: [chat](#), [enabling/disabling camera and muting/unmuting microphone](#), as well as access to your [AV device settings](#).

### 4.3. Joining a conference

To join a conference, you can:

- Enter its ID in the **Conference** → **Join the conference** menu.
- If the conference has already started, you can call its [owner](#) by finding this user in the address book (the user will be marked with a star icon ★).

During a conference, you can enable/disable your camera and microphone, exchange messages, etc., as described in the [following section](#).

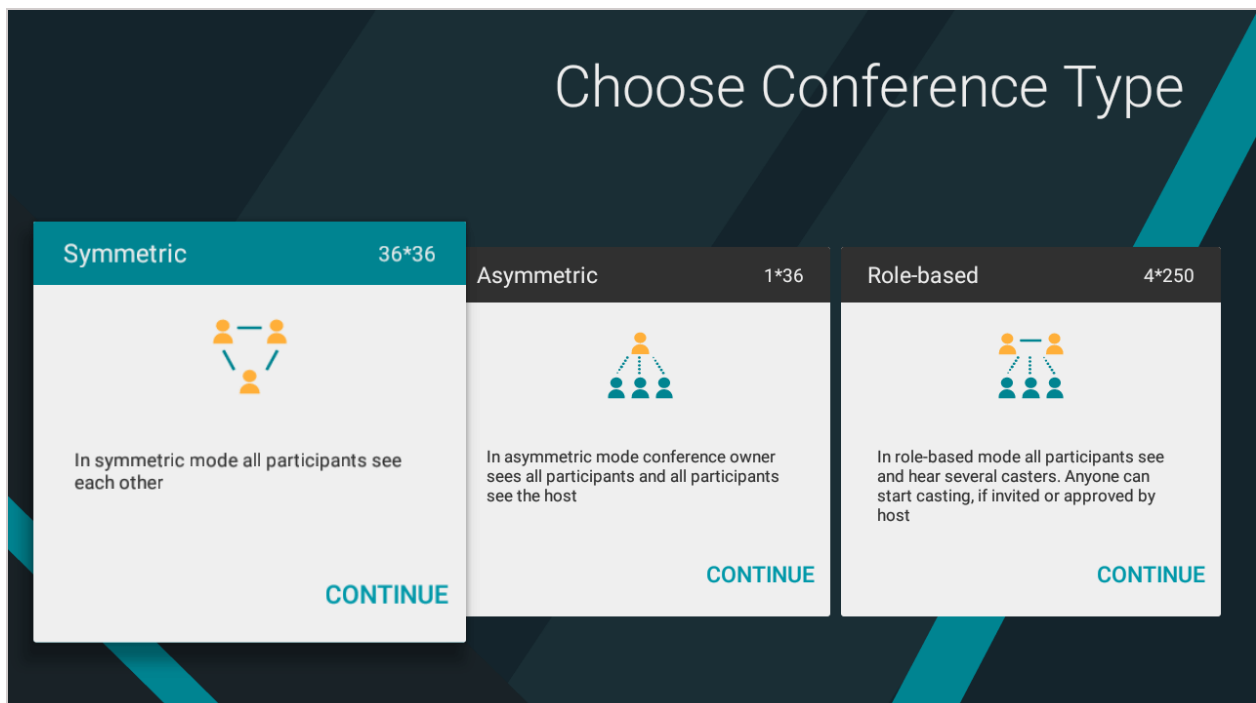
### 4.4. Creating a conference

In TrueConf Videobar device, you can schedule the following video conferencing modes: [symmetric \(all on screen\)](#), [asymmetric \(video lecture\)](#) or [role-based \(virtual meeting\)](#).

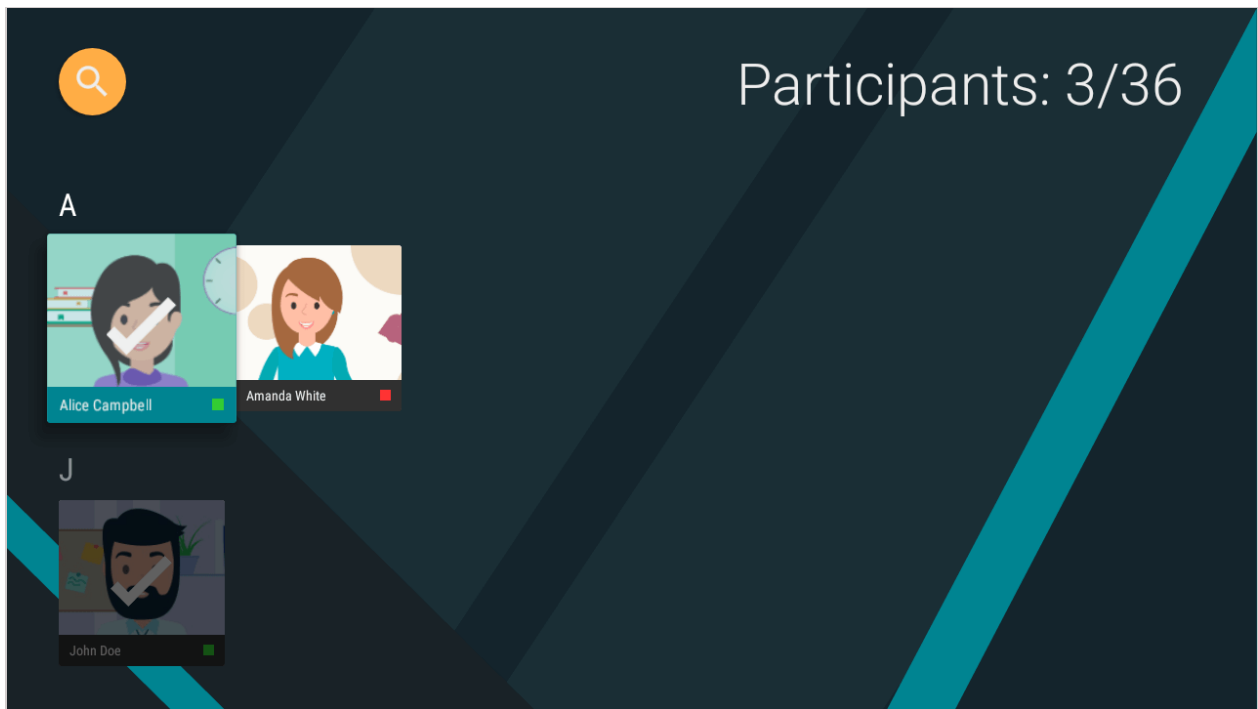
#### 4.4.1. Symmetric conference

Symmetric conference is a video conference during which all users can see and hear each other:

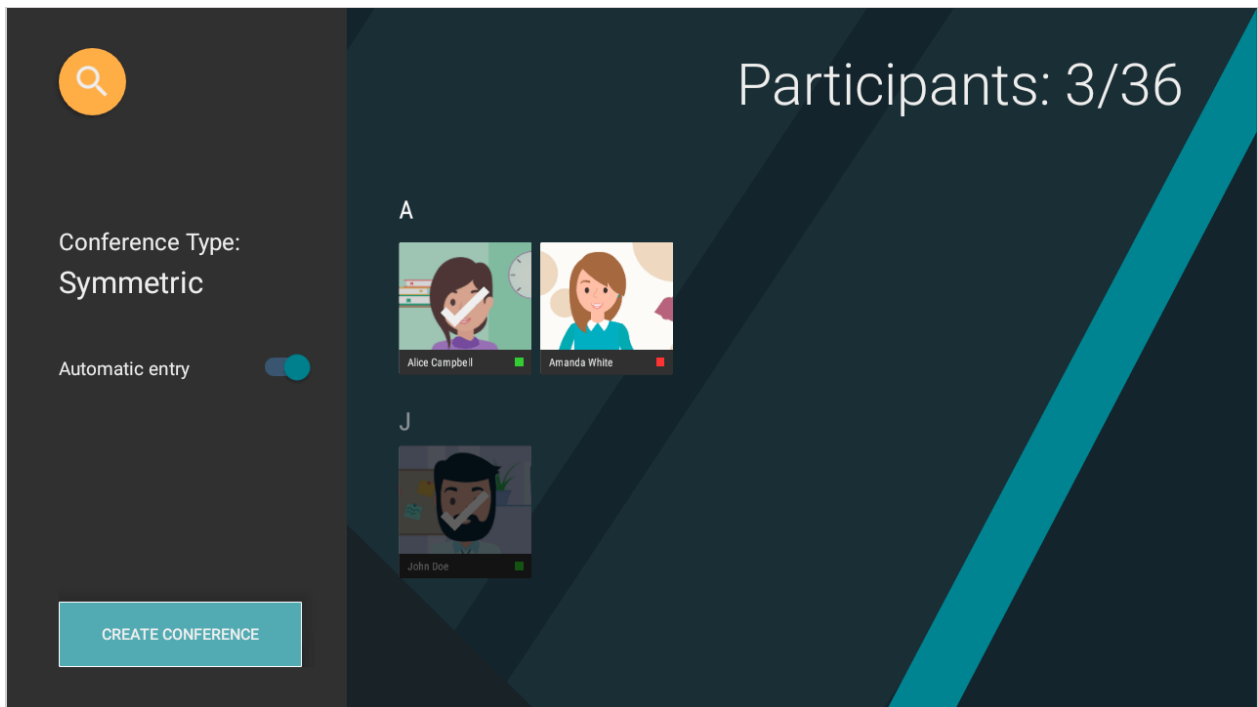
1. Go to **Conference** → **New Conference**.
2. Choose **Symmetric**:



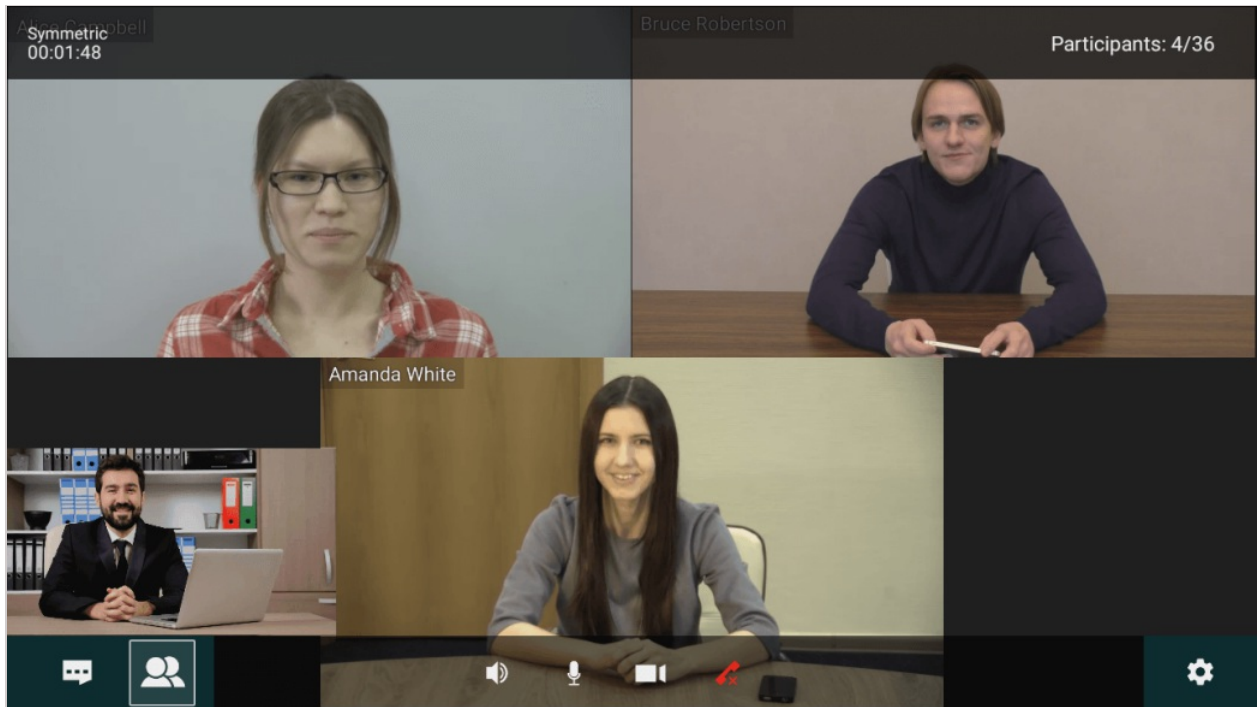
3. Select the conference participants from your address book:



4. Check the **Automatic entry** box if you would like to let a user who is willing to take part in a conference join the meeting automatically upon calling.
5. Press **Create conference**:

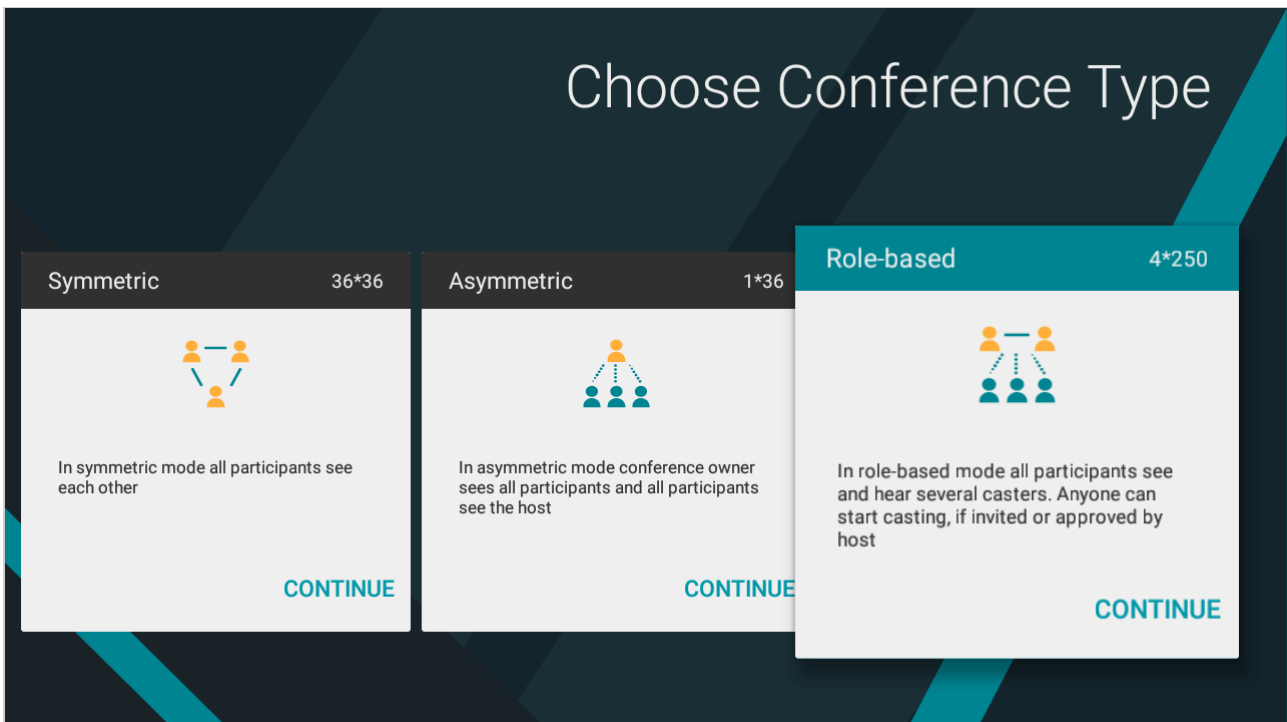


6. The conference will launch immediately, all the participants will receive an invitation:




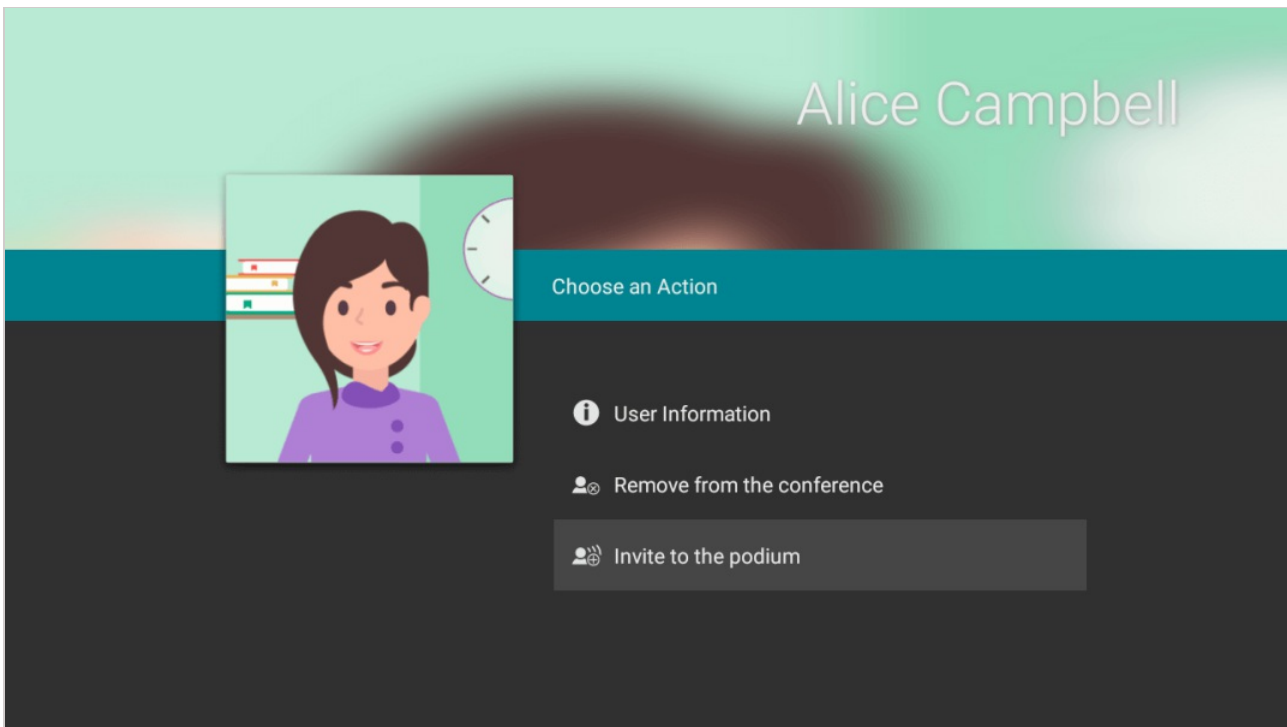
#### 4.4.2. Role-based conference

You can create a group conference where participants have different rights and are divided into attendees and **speakers**. To start a conference, follow the steps described above and select **Role-based** when choosing your conferencing mode.




##### 4.4.2.1. Assigning a speaker

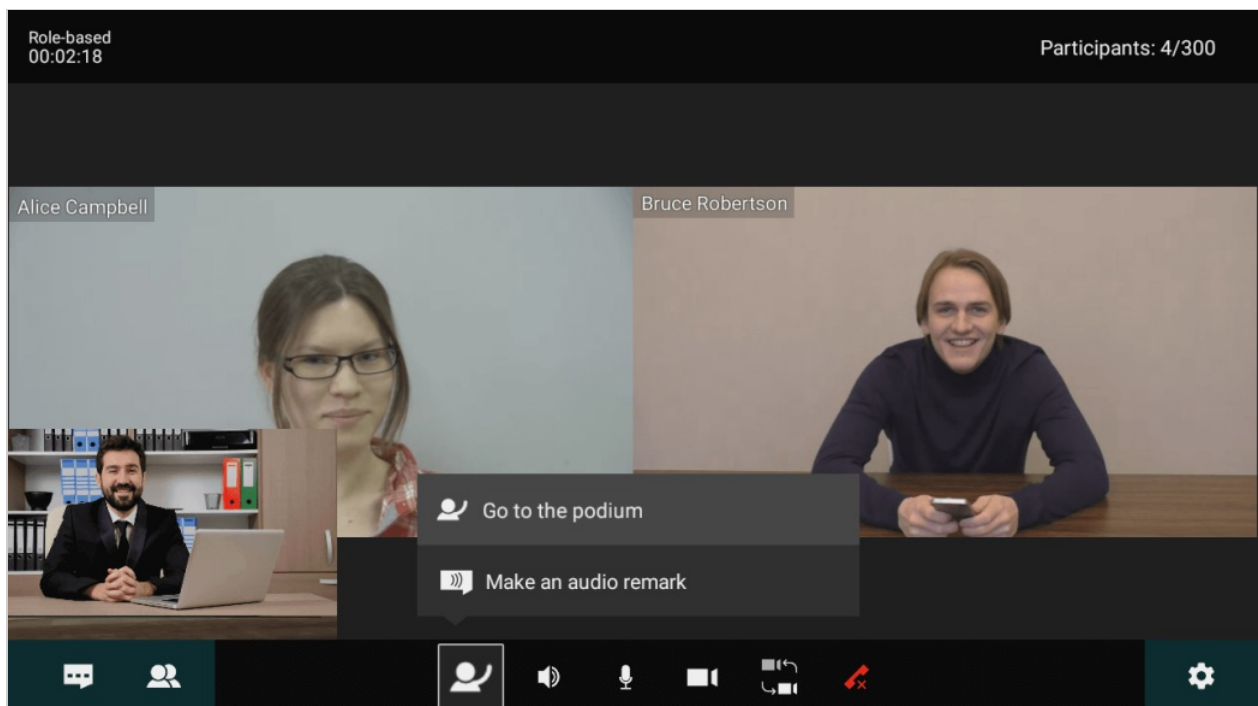
Open the list of participants by pressing the  button in the conference menu. Proceed to the profile of the participant you would like to assign as a speaker and press **Invite to the podium**:




#### 4.4.2.2. Becoming a speaker and making an audio remark


To become a speaker, use one of the following methods:

- Press the [asterisk button](#) on the remote control – you'll immediately take the podium, if you're a [conference moderator](#), or send a request to become a speaker
- Choose the  icon in the conference menu and you'll be able to make an audio remark or send a request to take podium to the meeting moderator:



You can stop presenting by pressing the [asterisk button](#) on the remote control or the  button (**Leave the podium**) in the conference menu.

To make an audio remark, you can:

- Press the [hash button](#) on the remote control and hold it while making your remark.
- Press the [hash button](#) on the remote control once and then press the **OK** button. Press the **OK** or  [return](#) buttons to stop your remark.
- Select the **Make an audio remark** button and talk while pressing and holding **OK** on the remote control. To stop the audio remark, release the button.

### 4.4.3. Asymmetric conference



[Asymmetric video conferences \(video lectures\)](#) can be created in the same way as described above. In this mode, all participants can see and hear only the speaker, while the speaker can see and hear all the participants.

## 4.5. During a call or conference

### 4.5.1. Content sharing

With TrueConf Videobar 015, you can share content during a video call or a group conference. To this end, you need to connect a device that transmits content via HDMI, e.g., you can connect a laptop to the endpoint and show slides.

To start sharing content, you should do the following:

1. Before or right during a conference, connect the device to the **HDMI in** port.
2. If necessary, enable content transmission via HDMI.
3. After that, your device's content will be displayed in your video window (instead of your camera video).
4. You can switch between content sharing options using the button  on the remote control or the conference menu item .


### 4.5.2. Mirroring your screen to the second monitor

If you need to mirror the screen to the second monitor, use the **HDMI out 1** port. In this case, the image displayed on the main screen will be completely duplicated on the additional screen.



Please note that **HDMI out 1** doesn't support output audio streams.

### 4.5.3. Viewing chat messages

If you would like to [exchange messages](#) during a video meeting, press any of the [Arrow keys](#) on the remote control and press the button . In this case, you can choose a group chat during a video conference or personal chat with a specific participant.




### 4.5.4. Adding users to the address book



You can add a user to your address book right during a conference. To that end, you need to:

1. Open the list of participants in the conference menu.
2. Select a user and go to their profile.
3. Go to the **User Information** menu.
4. Press **Add**.

### 4.5.5. Managing your microphone and camera


To mute your microphone:

1. During a conference, press the button  on the remote control or go to the conference menu and press the mute button .
2. The button will be crossed out .


Similarly, you can enable/disable your camera during a meeting by pressing the button  on the remote control or the camera button  in the conference menu.

### 4.5.6. External webcams

During a conference, you may need to switch between various webcams. With TrueConf Videobar, you can connect additional cameras via available USB ports.

To switch between your cameras during a video call or a conference, use the conference menu item .

### 4.5.7. Additional settings

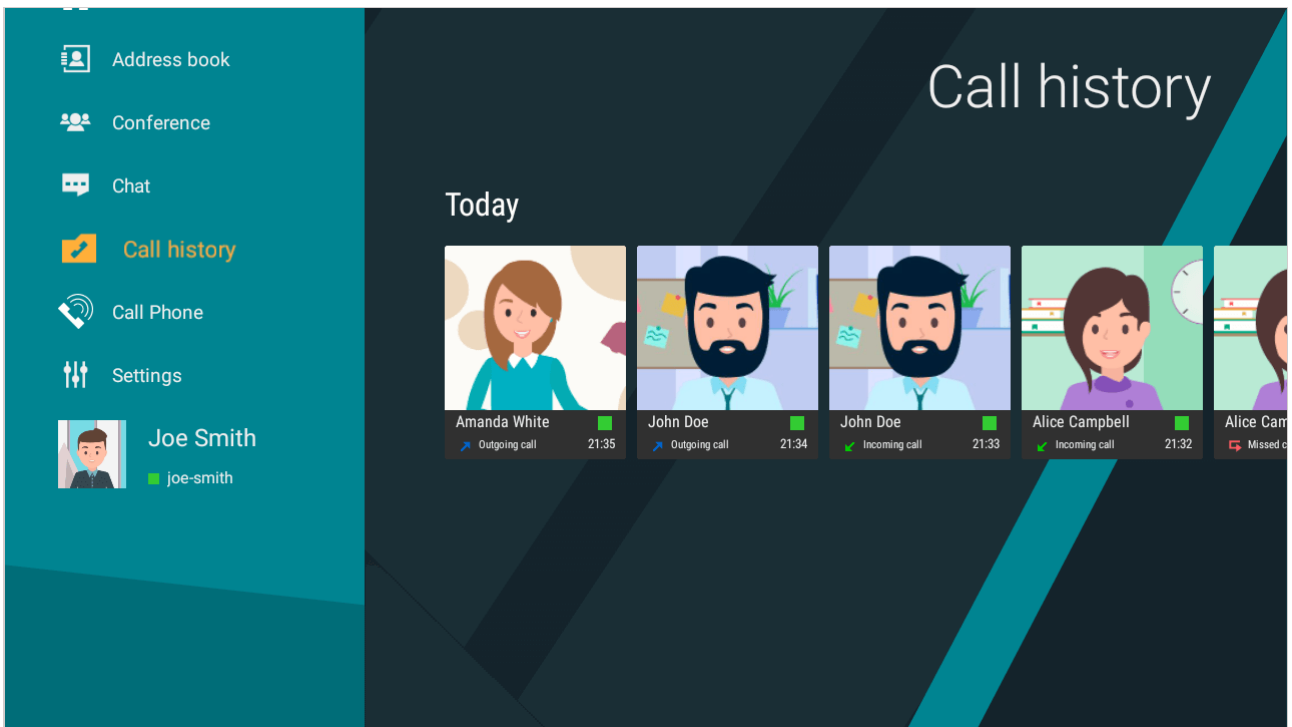
Use the  button to proceed to the additional menu. Here you can:

1. Switch between cameras, microphones and speakers if you have multiple devices connected.
2. Enable automatic anti-flickering filter.
3. Change the camera angle for compatible webcams.
4. Adjust volume level.
5. Configure echo cancellation (auto, on or off).

## 4.6. Call history

To view your call history, choose the corresponding item in the app menu:



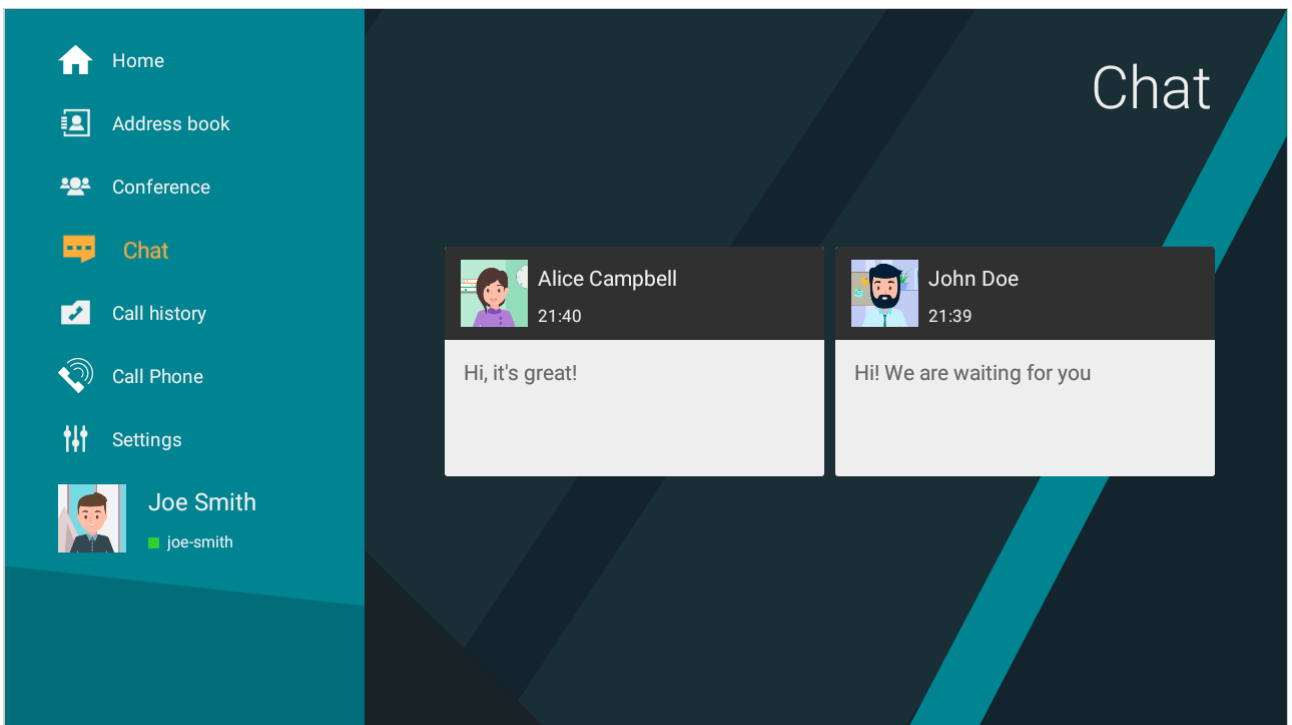


With this list, you can call a user again or re-join a conference if it's still ongoing and this user is the conference owner.

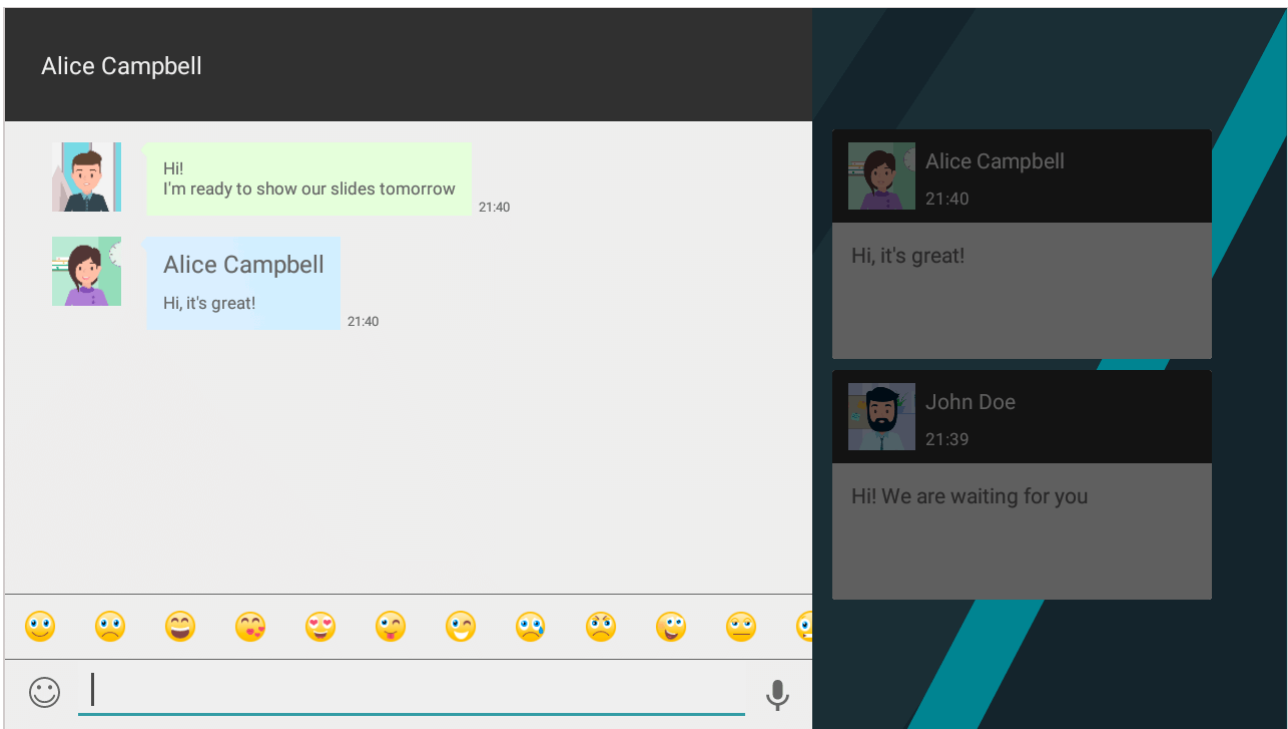
## 4.7. Using a chat

To start exchanging messages with any user from your address book, go to the [user profile](#) and press the **Chat** button.

Your chat list is available in the **Chat** app menu:



Proceed to any of your chats to continue exchanging messages and use the Arrows on the control panel to go to other chats:

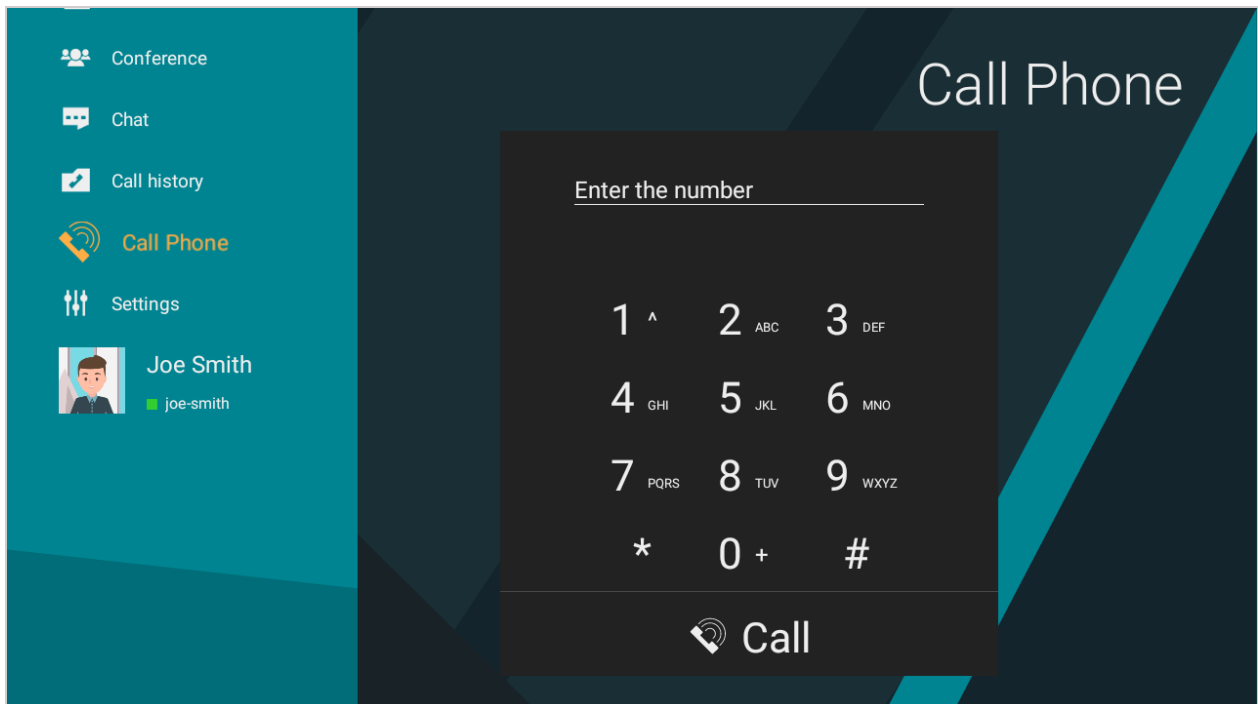


Chat is also available during a [call](#) and [video conference](#).

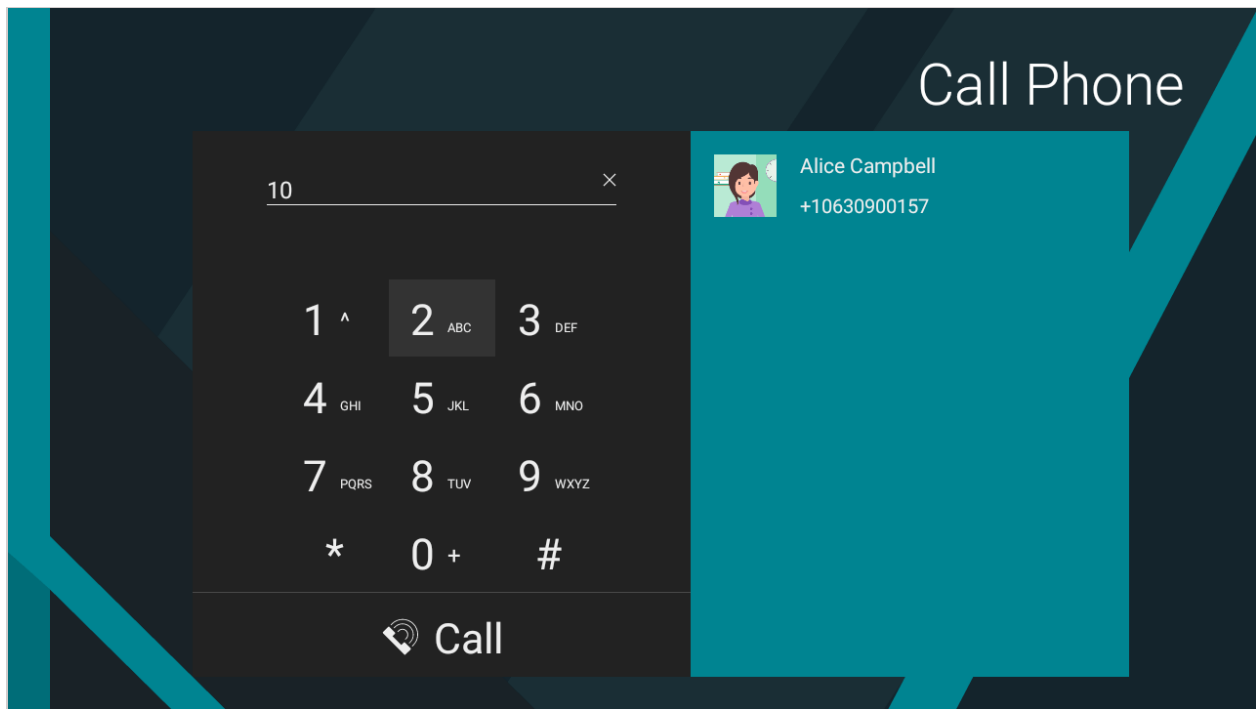
## 4.8. How to call a phone

To call a phone number, you need to:

1. Open the dialer from the **Call Phone** menu.



2. Dial the number using the remote control. In this case, you'll see prompted users on the right:



3. Press **Call** or go to a prompted user and press **OK** on the remote control.

## 5. Endpoint settings

### 5.1. General settings

In the **Settings** device menu, you can:

1. [Switch between user accounts](#).
2. Enable receiving calls only from the users in your [address book](#).
3. Enable automatic receiving of incoming calls.
4. Clear your [call history](#).
5. Change your ringtone.
6. Enable receiving messages only from the users in your [address book](#).
7. Delete your [chat history](#).
8. Set the ringtone for incoming messages.
9. Route calls through the server (for [one-to-one video calls](#) hosted via the server).
10. When using TrueConf cloud service, disable address book contact syncing.
11. Set permissions for your video window to be recorded during a call or group conference. Learn more about this feature in the [TrueConf client app user guide](#).
12. Manually set the bitrate limitation for the incoming and outgoing streams.
13. Enable collecting device logs.
14. View information about your app version.

### 5.2. Network connection

If required, you can change Ethernet connection settings:

1. Proceed to **Settings** → **Open system settings**.
2. Select **Ethernet** menu item.
3. If the adaptor is disabled, select **Ethernet** in the wired connection settings section and press **OK** on the remote control.
4. Go to **Ethernet Ip mode** to choose your connection type: **DHCP** (for automatic network connection) or **static** (for manual network connection).
5. If you have selected a **static** connection type, you will see the settings menu with IP address, gateway, subnetwork mask and DNS server parameters.

If you would like to connect to a Wi-Fi wireless network, perform the following steps:

1. Proceed to **Settings** → **Open system settings**.
2. Select **Wi-Fi**.
3. If it is disabled, go to **OFF** and press **OK** on the remote control.
4. Select the preferred Wi-Fi network from the list of available wireless networks and press **OK**.
5. Enter a Wi-Fi network password using the on-screen keyboard. If required, you can change default connection settings in the **Advanced settings** menu item.

## 6. TrueConf Videobar features

### 6.1. Supported codecs

#### Video codecs

- H.264, VP8

#### Audio codecs

- Opus

### 6.2. Network interfaces

- LAN/Ethernet (RJ-45) 10/100 Mbps
- Wi-Fi 802.11ac, 2.4G and 5G supported

### 6.3. Endpoint features

- Video calls and conferences with a resolution of up to 1080p@30
- Run meetings with up to 1000 participants (up to 1600 using UDP Multicast mode)
- Built-in microphone array
- Try different video conferencing modes: video call (point-to-point or one-on-one video conferencing session), video lecture, all on screen, and role-based conference
- Private meetings for registered users and public webinars with guest connection
- Point-to-point video calls can be run directly between the users bypassing the server
- Attendees can push to talk or send a request to become a speaker in role-based conferences, while moderators can appoint or remove speakers from the podium
- Making calls to mobile and landline numbers using the built-in dialer
- Making calls to SIP/H.323 and RTSP devices
- Exchange messages and share files in personal and group chats. Your messages will be delivered even if your partner is currently offline
- Chat history, including group chats of the meetings that have already finished
- Add and remove participants while the conference is in progress
- Local address book (adding and deleting contacts and groups, editing contact information, searching and blocking contacts) and global address space via LDAP
- Call history
- Built-in echo cancellation algorithms
- Remote control supporting 2.4 GHz band
- Plug&Play for multiple cameras and microphones via USB
- Connect a second monitor or projector to show slides or mirror the main screen
- Connect a device for sharing content via HDMI during a meeting (with TrueConf Videobar 015)
- Sync your address book when used with TrueConf Online
- Block incoming calls from users who aren't in the address book
- Block messages from users who aren't in the address book
- Take incoming calls automatically
- Disable recording your video window during a call or a group conference

## 6.4. Remote control features

- Adjust the volume
- Mute the microphone
- Disable the camera
- Switch between the camera and content being displayed via HDMI (with TrueConf Videobar 015)
- Take the podium in a role-based conference (in virtual meetings)
- Make an audio remark in a role-based conference (in virtual meetings)
- Manage multiple endpoints using a single remote control

## 6.5. Operating, transportation and storage conditions

1. Operate your devices under the following climatic conditions:
  - Ambient temperature: -10 °C ~ +50 °C
  - Relative humidity: 20 ~ 80 %
  - Atmospheric pressure: 84.0–106.7 kPa (630–800 mmHg)
- Packaged endpoints can be transported by all transport modes, except for unpressurized aircraft compartments and open decks of ships and vessels.

Endpoints can be transported by rail in containers.

When transported in freezing temperatures, keep endpoints in normal climatic conditions for at least 24 hours before unboxing.

- At supplier and consumer's warehouses, video conferencing endpoints must be kept with no acidic, alkaline and other aggressive impurities in the air.
- According to the manufacturer, the device's service life is 7 years if the consumer sticks to the rules and conditions of operation, transportation and storage.

Given that the device is a high-quality and reliable product, the actual service life may exceed the labeled one.