

TV components

Your TV has built-in controls for adjusting basic settings and several sets of jacks for connecting devices to your TV.

This section contains information about:

- Package contents
- Front features
- Side jacks
- Back jacks
- Remote control

Package contents

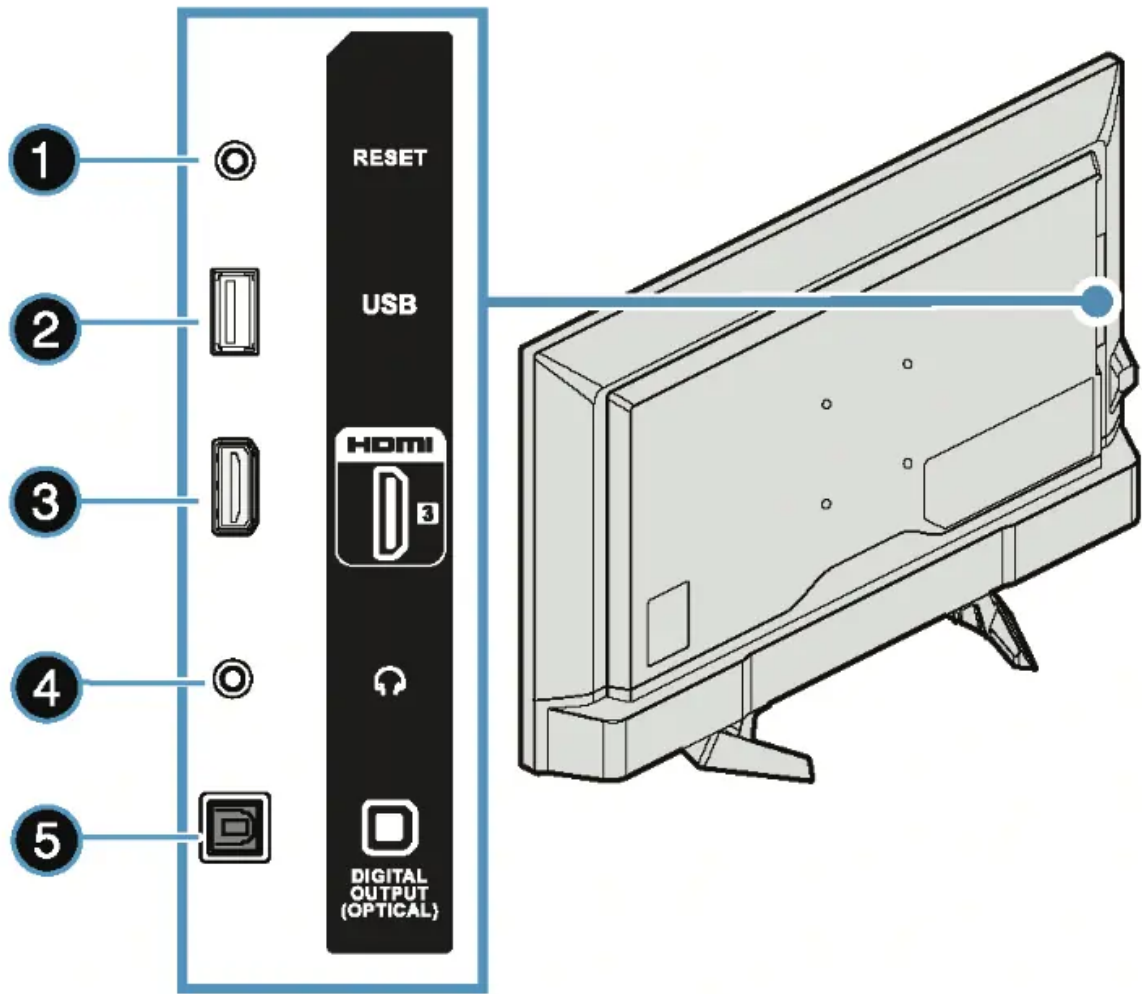
- 32", 43", or 50" LED Sharp Roku TV
- Remote control and batteries (2 AAA)
- TV stands (2)
- Screws (4)
- Power cord
- Quick Setup Guide
- Important Information


Front features



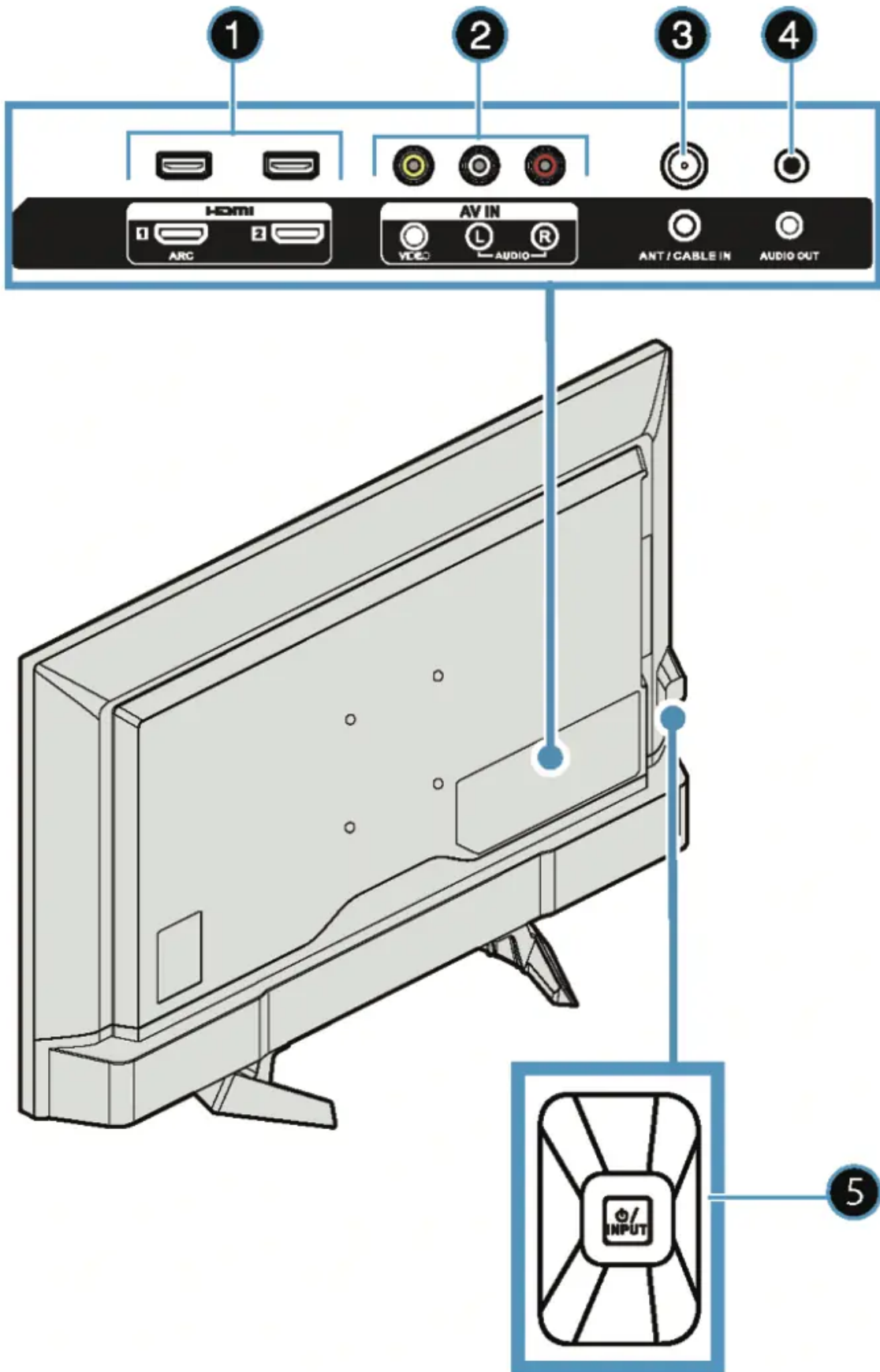
#	Item	Description
1	Remote control sensor	Receives signals from the remote control. Do not block.
2	Status indicator	See Status light on page 46.

Side jacks



#	Item	Description
1	RESET	Press and hold reset for 15 seconds for factory reset. See What if I can't access the Factory Reset option? on page 70.
2	USB	Connect a USB flash drive to this jack to view compatible photos and video and listen to music files. For more information, see Connecting a USB flash drive on page 26 and Playing content from USB storage devices on page 48.
3	HDMI 3	Connect an HDMI device to this jack. For more information, see HDMI (best) on pages 17, 21, or 23 or Connecting a computer on page 25.
4		Connect headphones to this jack. See Connecting headphones on page 27. OR Connect an analog sound bar, speaker system, or home theater system to this jack to listen to TV audio through external speakers. For more information, see Analog audio on page 30.
5	DIGITAL OUTPUT (OPTICAL)	Connect a digital sound bar, speaker system, or home theater system to this jack to listen to TV audio through external speakers. For more information, see Digital audio using the DIGITAL OUTPUT (OPTICAL) jack on page 28.

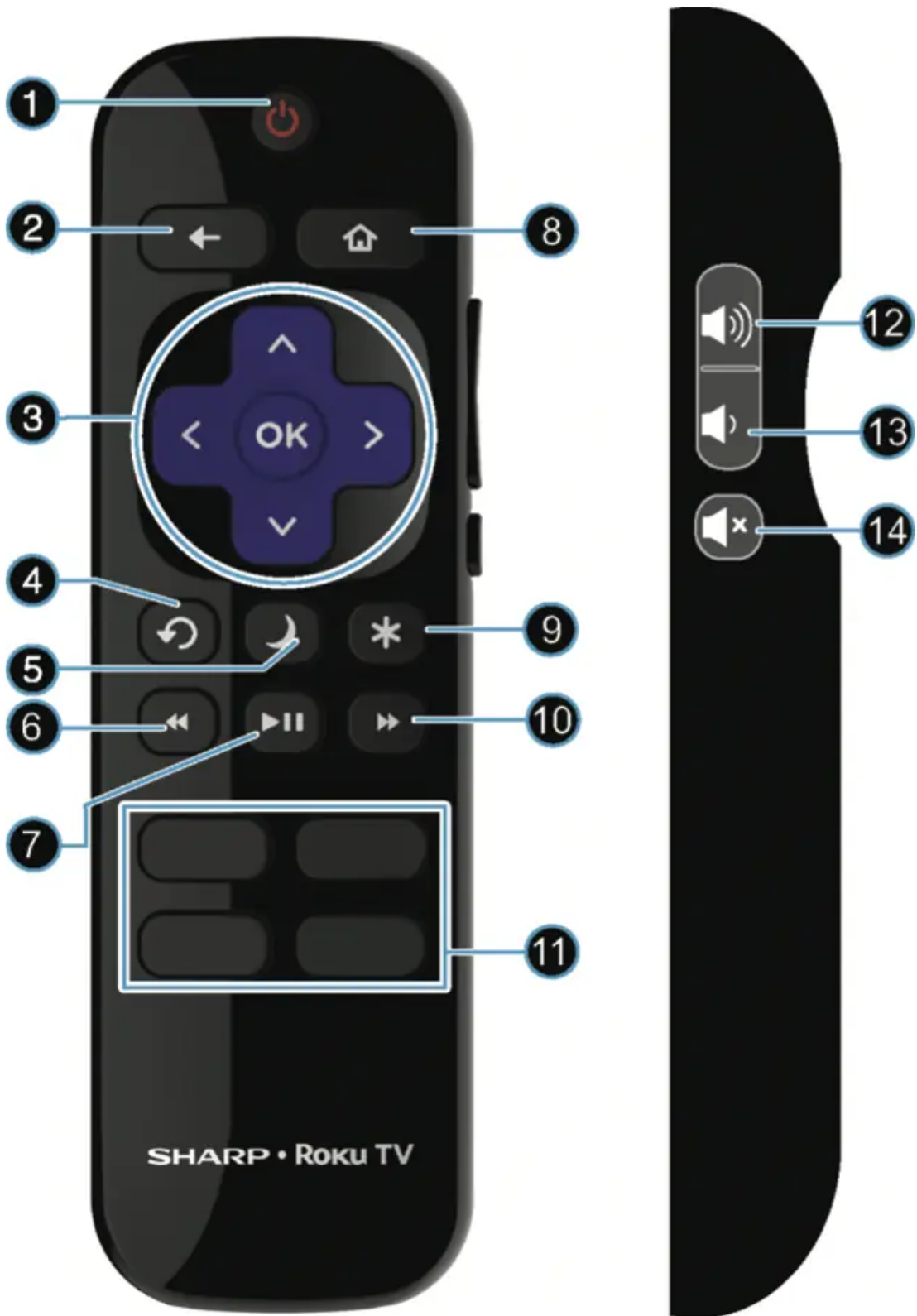
Back jacks














#	Item	Description
1	HDMI1/ARC HDMI 2	<p>Connect an HDMI device to one of these jacks. For more information, see HDMI (best) on pages 17, 21, or 23 or Connecting a computer on page 25.</p> <p>OR</p> <p>Connect an ARC-enabled home theater receiver to the HDMI 1/ARC jack. For more information, see Digital audio using the HDMI 1/ARC jack on page 29.</p>
2	VIDEO L and R (audio)	<p>Connect an AV device to these jacks. For more information, see AV (good) on page 18, 22, or 24.</p>
3	ANT/CABLE IN	<p>Connect an antenna or cable TV to this jack. For more information, see Coaxial (good) on page 19 or Connecting an antenna or cable TV (no box) on page 20.</p>



#	Item	Description
4	AUDIO OUT	<p>Connect an analog audio amplifier, a home theater system, or a sound bar to this jack. For more information, see Analog audio on page 30.</p>
5	⏻/INPUT	<p>⏻—Press to turn on your TV when your TV is off (in standby mode). Press and hold to turn off your TV when TV is on.</p> <p>Warning: When your TV is off, power still flows through it. To completely disconnect power, unplug the power cord.</p> <p>INPUT—When your TV is on, quickly press and release to open the <i>INPUT SOURCE</i> list, press one or more times to select a video input source, then wait a few seconds. Your TV switches to the source you selected. For more information, see Switching TV inputs on page 48.</p> <p>TV menu—Press to confirm selections.</p>





Remote control



#	Button	Description
1	 (power)	If your TV is in Standby mode, turns power on. If your TV is on, puts your TV in Standby mode.
2	 (back)	The action depends on what you are doing with your TV: Menu —Goes back to previous menu or screen. Home screen tile —Moves highlight back to the Home menu option. Watching Antenna TV or a TV input —Returns to the screen from which the input was selected. Playing streaming content —Stops playing stream and returns to the previous menu or screen. Browsing streaming content —Goes to the previous level in the content tree.

#	Button	Description
3	 and OK	<p> —Moves the highlight up one item. —Moves the highlight down one item. —Moves the highlight left, if possible (if a < hint appears). When watching TV, displays your channel list. When playing most streaming videos, skips backward in the video. —Moves the highlight to the right, if possible (if a > hint appears). When watching TV with the channel list displayed, dismisses the channel list. When playing most streaming videos, skips forward in the video. OK—Selects the highlighted option. When watching TV, this button displays information for the current TV program. </p>
4	 (previous)	<p> Watching Antenna TV or cable (no set-top box)—Changes to the previous channel. Playing streaming content—Jumps back one position in video. Menu—Backspaces one letter during menu entries, such as Search. </p>
5	 (sleep)	<p> First press displays a banner showing the remaining sleep time, if any, or Sleep timer is off. Subsequent presses cycle among the preset sleep time intervals: 30 minutes, 1 hour, 1.5 hours, 2 hours, and 3 hours. Once set, the Sleep timer remains in effect regardless of what you are watching. </p>
6	 (rewind)	<p> When playing streaming video that supports this feature: <ul style="list-style-type: none"> • First press rewinds at 1x speed. • Second press rewinds at 2x speed. • Third press rewinds at 3x speed. • Subsequent presses cycle through 1x, 2x, and 3x rewind speed. When playing streaming audio, jumps to the previous track/selection. When any menu, tile, or channel in the channel list is highlighted, jumps up one page. When using a virtual keyboard, jumps to the character at the top of the current column. </p>
7	 (play/pause)	<p> When playing streaming content, alternately pauses and </p>

#	Button	Description
11	FEATURED CHANNEL SHORTCUTS	<p>Dedicated buttons show the logo of a featured streaming content provider. Pressing a button turns your TV on (if your TV is not already on), and if your TV is operating and is connected to the Internet, performs one of the following actions:</p> <ul style="list-style-type: none"> • Displays the streaming channel's main page if you have already added the channel to your Home screen. • Displays the streaming channel's sign-up page if you have not already added the channel so that you can agree to any terms and fees for the service.
12	 (volume up)	<p>Turns volume up one setting with each press. Press and hold to turn volume up rapidly. A volume indicator shows the volume level while you are adjusting the volume and for a few seconds afterward.</p> <p>Note: If your TV is muted, pressing  unmutes the sound.</p>

#	Button	Description
13	 (volume down)	<p>Turns volume down one setting with each press. Press and hold to turn volume down rapidly. A volume indicator shows the volume level while you are adjusting the volume and for a few seconds afterward.</p> <p>Note: If your TV is muted, pressing  does not unmute the sound.</p>
14	 (mute)	<p>Mutes and unmutes the TV sound. A volume indicator shows the current volume level and a mute icon when you press  and for a few seconds afterward. If Closed captioning is set to When Mute, captions are displayed while your TV is muted.</p>

What connection should I use?

Your TV has several connection types for connecting devices to your TV.

For the best video quality, you should connect a device to the best available connection.

Use the following tables to identify cables:

Video quality	Connection type and jack	Cable connector
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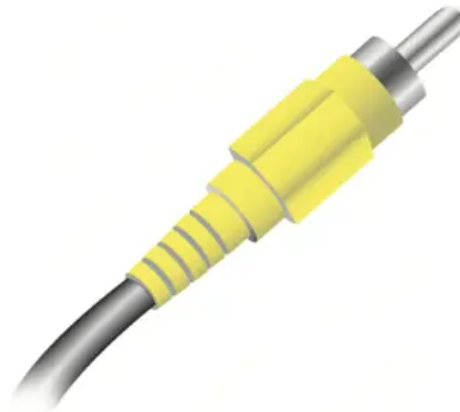
Best (use this if your devices have HDMI)

HDMI video/audio



Good

AV (composite video) (requires an audio connection)



Good

Coaxial video/audio



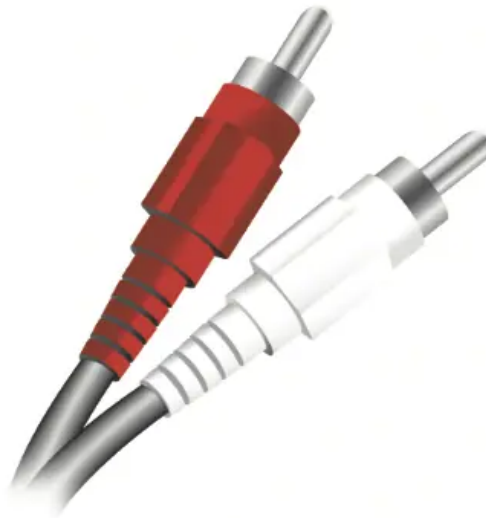
Connection type and jack

Cable connector

Digital optical audio output



Analog audio input



3.5mm analog audio output



Cautions

- Check the jacks for position and type before making any connections.
- Loose connections can cause poor audio or video quality. Make sure that all connections are tight and secure.
- The external audio/video devices shown may be different from your devices. If you have questions, refer to the documentation that came with your devices.

- Always turn off your TV when connecting external devices.

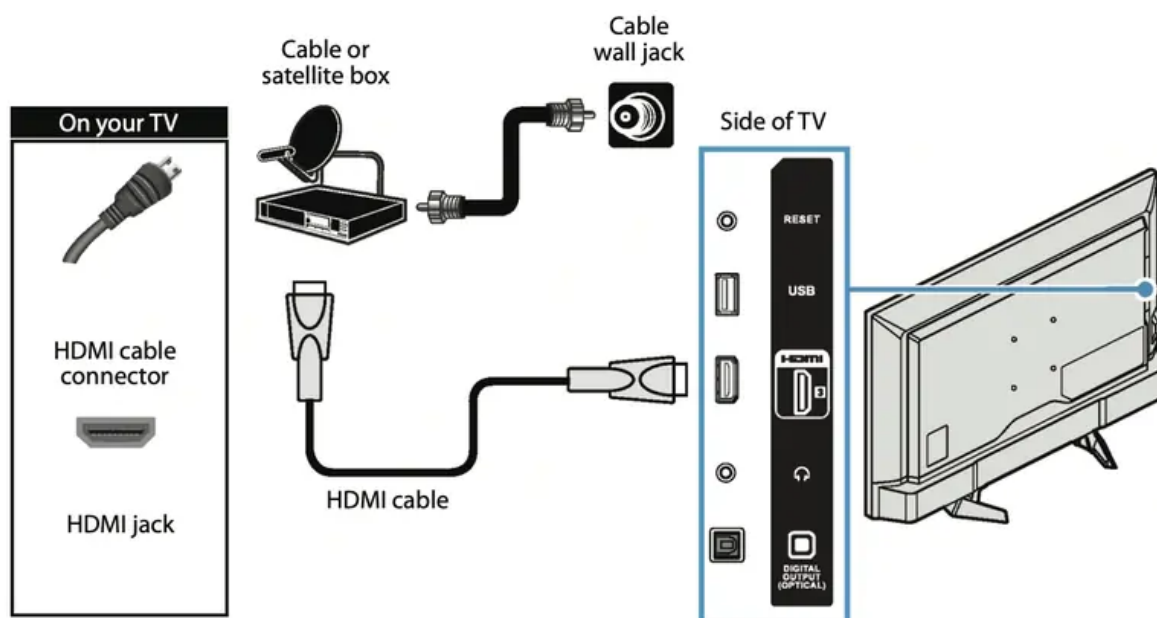
Connecting a cable or satellite box

Many cable or satellite TV boxes have more than one connection type. To get the best video, you should use the best connection type available. For more information, see *What connection should I use?* on page 16.

You can connect your cable or satellite box using:

- HDMI (best)
- AV (good)
- Coaxial (good)

HDMI (best)

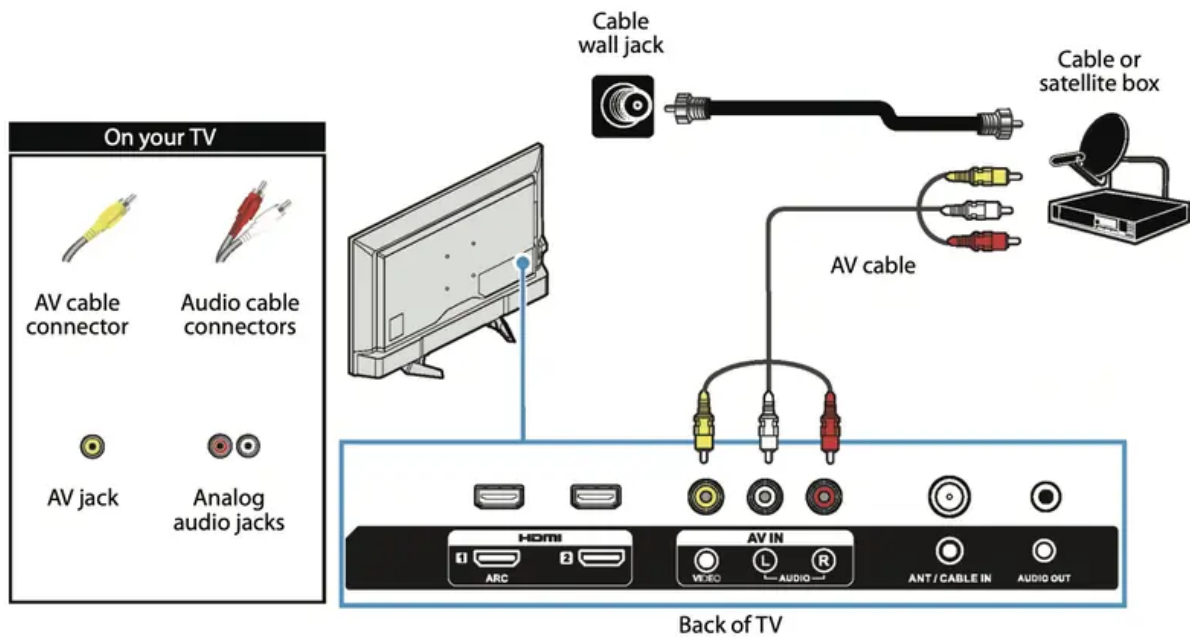


1. Make sure that your TV's power cord is unplugged and all connected devices are turned off.
2. Connect the incoming cable from the cable wall jack to the cable-in jack on the cable or satellite box.
3. Connect an HDMI cable (not provided) to an **HDMI** jack on the side or back of your TV and to the **HDMI OUT** jack on the cable or satellite box.
4. Plug your TV's power cord into a power outlet, turn on your TV, then turn on the cable or satellite box.
5. On the Home screen, press **^** **v** **<** or **>** to highlight the **HDMI 1**, **HDMI 2**, or **HDMI 3** tile, then press **OK**.

Note: An HDMI cable carries both audio and video. You do not need to use any audio cables.

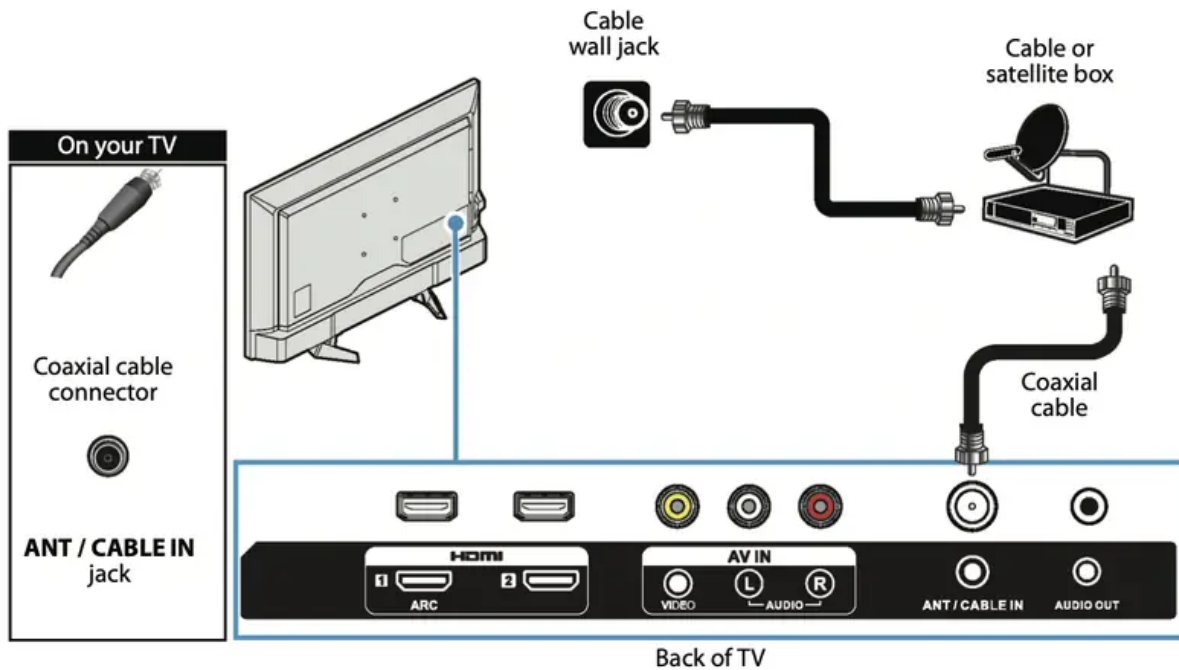
AV (good)

Notes: Cables are often color-coded to match color-coded jacks.



1. Make sure that your TV's power cord is unplugged and all connected devices are turned off.
2. Connect the incoming cable from the cable wall jack to the cable-in jack on the cable or satellite box.
3. Connect an AV cable (not provided) to the **VIDEO** jack and **L** and **R** (audio) jacks on the back of your TV and to the AV and audio out jacks on the cable or satellite box.
Note: When you connect the audio using the **L** and **R** (audio) jacks, the audio output is analog.
4. Plug your TV's power cord into a power outlet, turn on your TV, then turn on the cable or satellite box.
5. On the Home screen, press \wedge \vee \leftarrow or \rightarrow to highlight the **AV** tile, then press **OK**.

Coaxial (good)

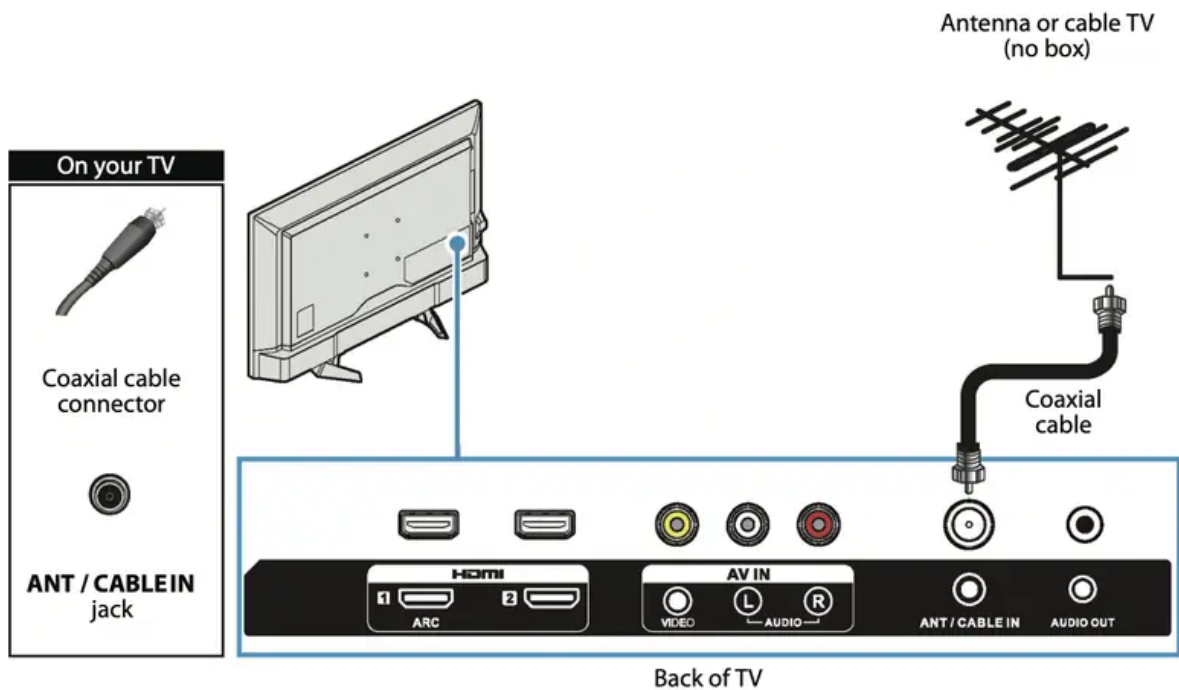


1. Make sure that your TV's power cord is unplugged and all connected devices are turned off.
2. Connect the incoming cable from the cable wall jack to the cable-in jack on the cable or satellite box.
3. Connect a coaxial cable (not provided) to the **ANT / CABLE IN** jack on the back of your TV and to the coaxial out jack on the cable or satellite box.
4. Plug your TV's power cord into a power outlet, turn on your TV, then turn on the cable or satellite box.
5. Set up the TV tuner to watch broadcast TV. See Setting up Antenna TV on page 43.
6. On the Home screen, press \wedge \vee \leftarrow or \rightarrow to highlight the **Antenna TV** tile, then press **OK**.

Notes

- Use a coaxial cable to eliminate interference and noise from radio waves.
- Do not bundle the coaxial cable with the power cord or other cables.

Connecting an antenna or cable TV (no box)



1. Make sure that your TV's power cord is unplugged and all connected devices are turned off.
2. Connect a coaxial cable (not provided) to the **ANT / CABLE IN** jack on the back of your TV and to the antenna or cable TV wall jack.
3. Plug your TV's power cord into a power outlet, then turn on your TV.
4. Set up the TV tuner to watch broadcast TV. See Setting up Antenna TV on page 43.
5. On the Home screen, press $\wedge \vee \leftarrow$ or \rightarrow to highlight the **Antenna TV** tile, then press **OK**.

Notes

- Use a coaxial cable to eliminate interference and noise from radio waves.
- Do not bundle the coaxial cable with the power cord or other cables.
- If the antenna is not installed correctly, contact qualified service personnel to correct the problem.
- If the signal level for a channel is weak, the picture may be distorted. Adjust the antenna or use a highly directional outdoor or set-top antenna with a built-in amplifier.
- If the picture quality is good on some channels and poor on others, the problem may be caused by a poor or weak signal from the broadcaster or cable TV provider.
- If you connect to cable TV without a set-top box and experience poor picture quality, you may need to install a set-top box to improve signal reception and picture quality. Contact your cable TV provider about upgrading to a set-top box.

- Many high-definition (HD) channels upscale standard-definition (SD) content. The picture displayed on your TV is still displayed as SD, thus the picture quality will not be as clear or crisp as it would be if the content was originally recorded in HD.

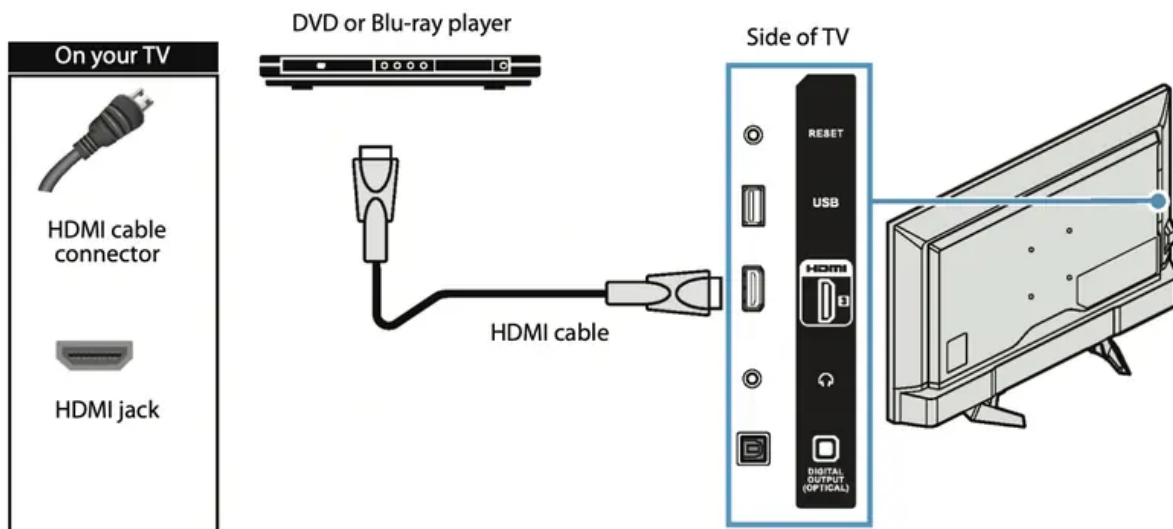
Connecting a DVD or Blu-ray player





Many DVD or Blu-ray players have more than one connection type. To get the best video, you should use the best connection type available. For more information, see What connection should I use? on page 16.

You can connect a DVD or Blu-ray player using:

- HDMI (best)
- AV (good)

HDMI (best)

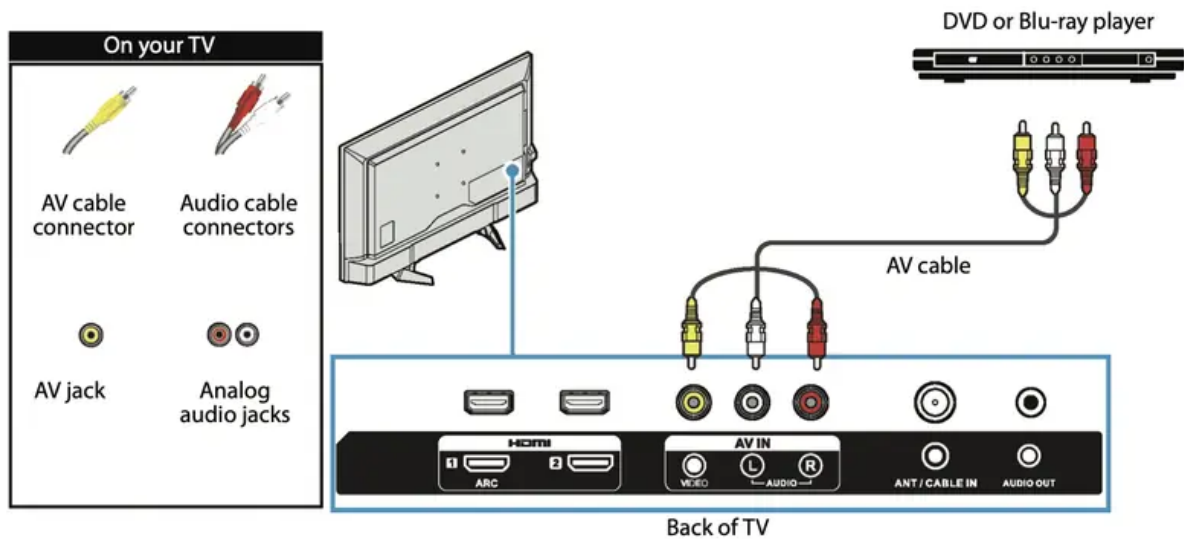


1. Make sure that your TV's power cord is unplugged and the DVD or Blu-ray player is turned off.
2. Connect an HDMI cable (not provided) to an **HDMI** jack on the side or back of your TV and to the **HDMI OUT** jack on the DVD or Blu-ray player.
3. Plug your TV's power cord into a power outlet, then turn on your TV and DVD or Blu-ray player.
4. On the Home screen, press    or  to highlight the **HDMI 1**, **HDMI 2**, or **HDMI 3** tile, then press OK.

Note: An HDMI cable carries both audio and video. You do not need to use any audio cables.

AV (good)

Note: Cables are often color-coded to match color-coded jacks.



1. Make sure that your TV's power cord is unplugged and the DVD or Blu-ray player is turned off.
2. Connect an AV cable (not provided) to the **VIDEO** jack and **L** and **R** (audio) jacks on the back of your TV and to the **AV OUT** jacks on the DVD or Blu-ray player. **Note:** When you connect the audio using the **L** and **R** (audio) jacks, the audio output is analog.
3. Plug your TV's power cord into a power outlet, then turn on your TV and DVD or Blu-ray player.
4. On the Home screen, press \wedge \vee \leftarrow or \rightarrow to highlight the **AV** tile, then press **OK**.

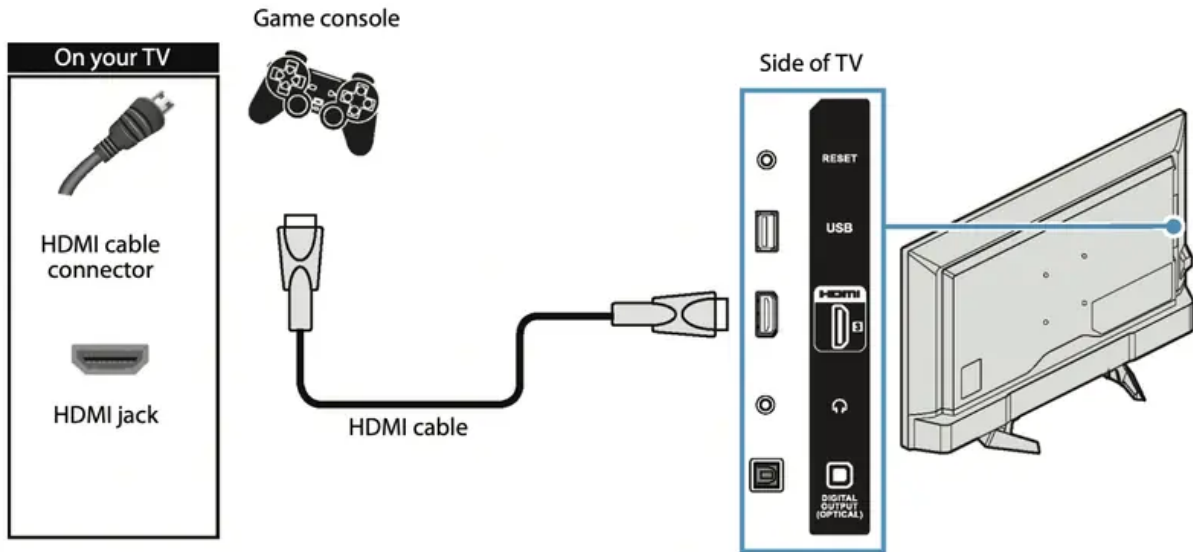
Connecting a game console

Many game consoles have more than one connection type. To get the best video, you should use the best connection type available. For more information, see [What connection should I use?](#) on page 16.

You can connect a game console using:

- HDMI (best)
- AV (good)

HDMI (best)

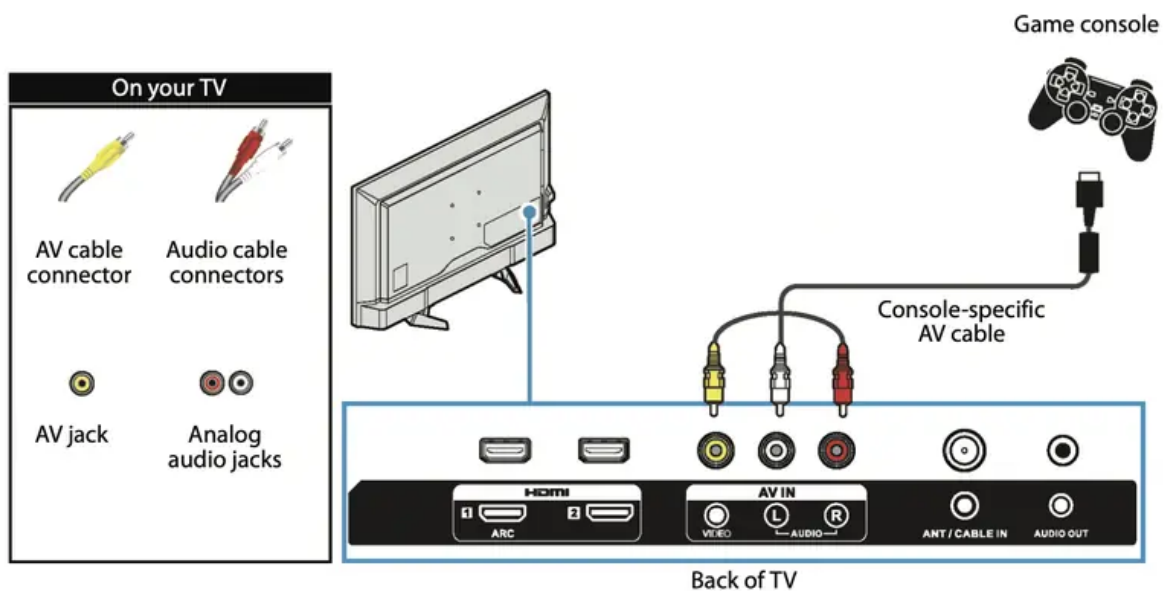


1. Make sure that your TV's power cord is unplugged and the game console is turned off.
2. Connect an HDMI cable (not provided) to an HDMI jack on the side or back of your TV and to the HDMI OUT jack on the game console.
3. Plug your TV's power cord into a power outlet, then turn on your TV and the game console.
4. On the Home screen, press \wedge \vee \leftarrow or \rightarrow to highlight the HDMI 1, HDMI 2, or HDMI 3 tile, then press OK.

Note: An HDMI cable carries both audio and video. You do not need to use any audio cables.

AV (good)

Note: Cables are often color-coded to match color-coded jacks.







1. Make sure that your TV's power cord is unplugged and the game console is turned off.
2. Connect the game console's AV cable (not provided) to the VIDEO jack and L and R (audio) jacks on the back of your TV and to the AV jack(s) on the game console.

Note

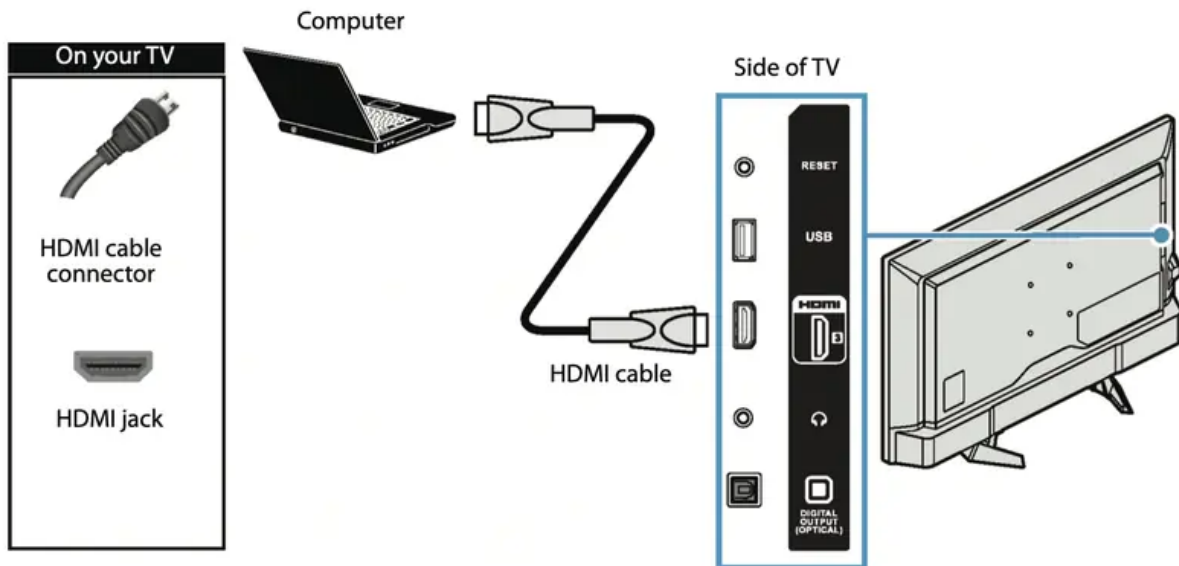
Some older game consoles come with a special AV cable. See the documentation that came with your game console or check the manufacturer's website.

When you connect the audio using the L and R (audio) jacks, the audio output is analog.

3. Plug your TV's power cord into a power outlet, then turn on your TV and the game console.
4. On the Home screen, press    or  to highlight the AV tile, then press OK.

Connecting a computer

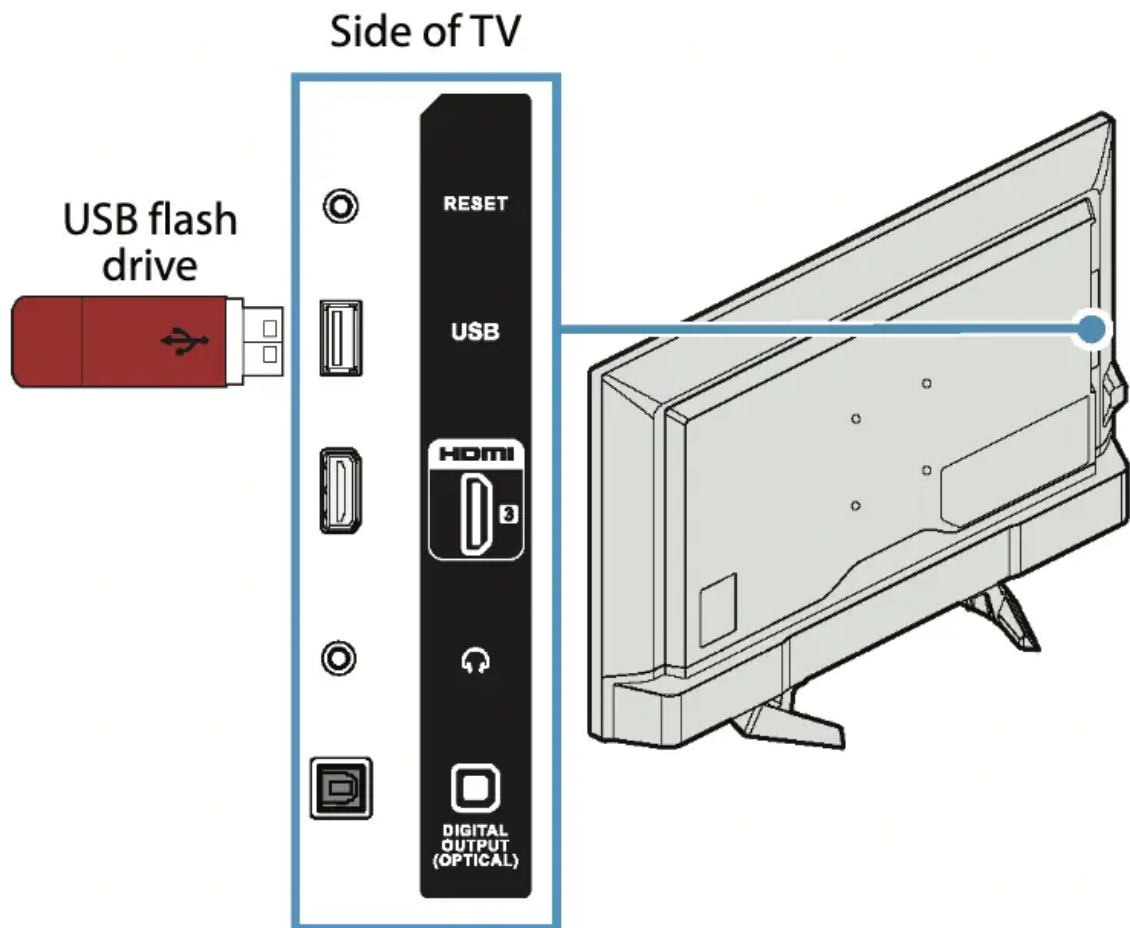
You can use an HDMI jack on your TV to connect to a computer.



1. Make sure that your TV's power cord is unplugged and the computer is turned off.
2. Connect an HDMI cable (not provided) to an HDMI jack on the side or back of your TV and to the HDMI OUT jack on the computer.
3. Plug your TV's power cord into a power outlet, then turn on your TV and the computer.
4. On the Home screen, press \wedge \vee \leftarrow or \rightarrow to highlight the HDMI 1, HDMI 2, or HDMI 3 tile, then press OK.
5. Adjust the display properties on the computer, if necessary.

Connecting a USB flash drive

You can use the USB jack on your TV to view photos and videos and listen to music stored on a USB flash drive.



1. Plug a USB flash drive into the USB port on the side of your TV.

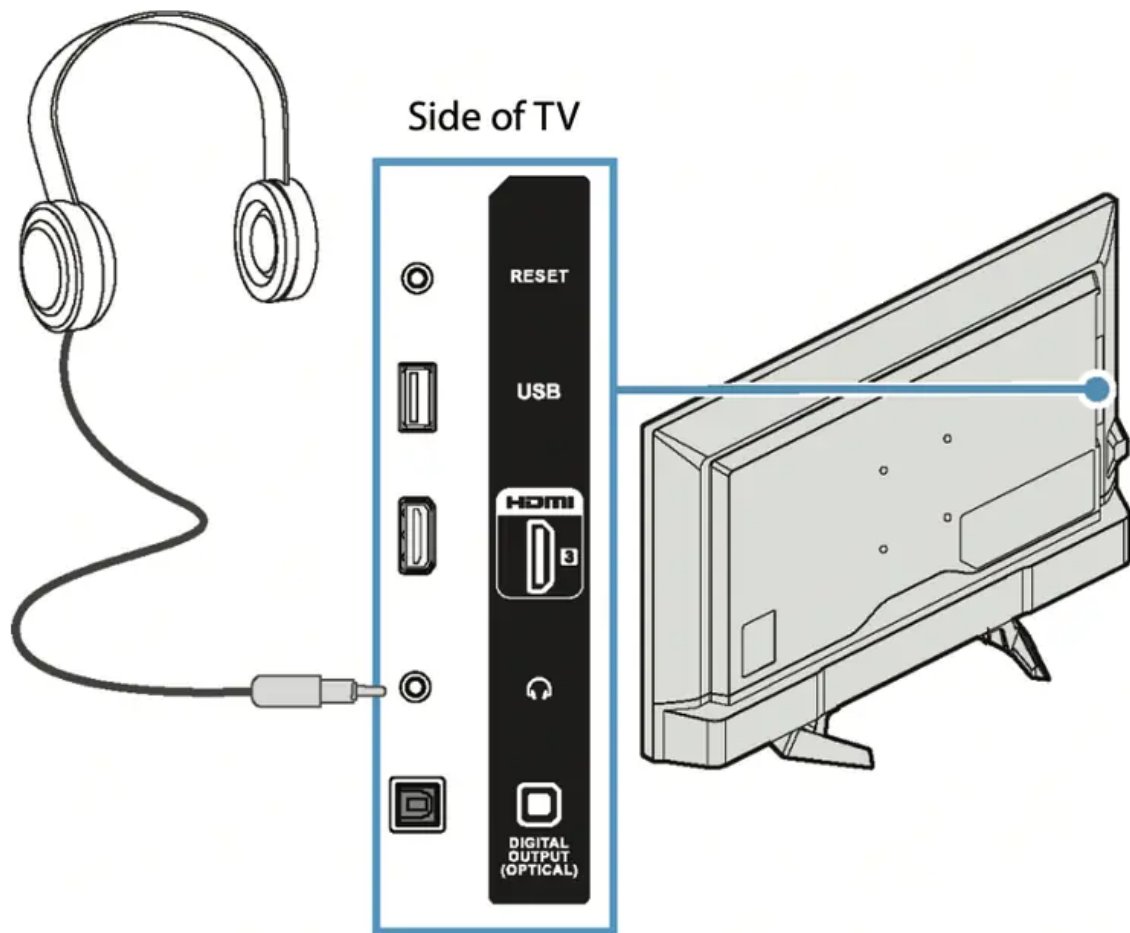
Caution: Do not remove the USB flash drive or turn off your TV while using the USB flash drive. You may lose data or damage the USB flash drive.

2. Press \wedge or \vee to highlight the Roku Media Player or USB Media Player tile, then press OK.

Connecting headphones

When you connect headphones, your TV speakers are muted and sound only plays through the headphones.

Warning: Loud noise can damage your hearing. When using headphones, use the lowest volume setting on your headphones that still lets you hear the sound.



Connect the headphones to the  jack on the side of your TV.

Note: You can also connect a home theater system, sound bar, or external speaker system to the jack.

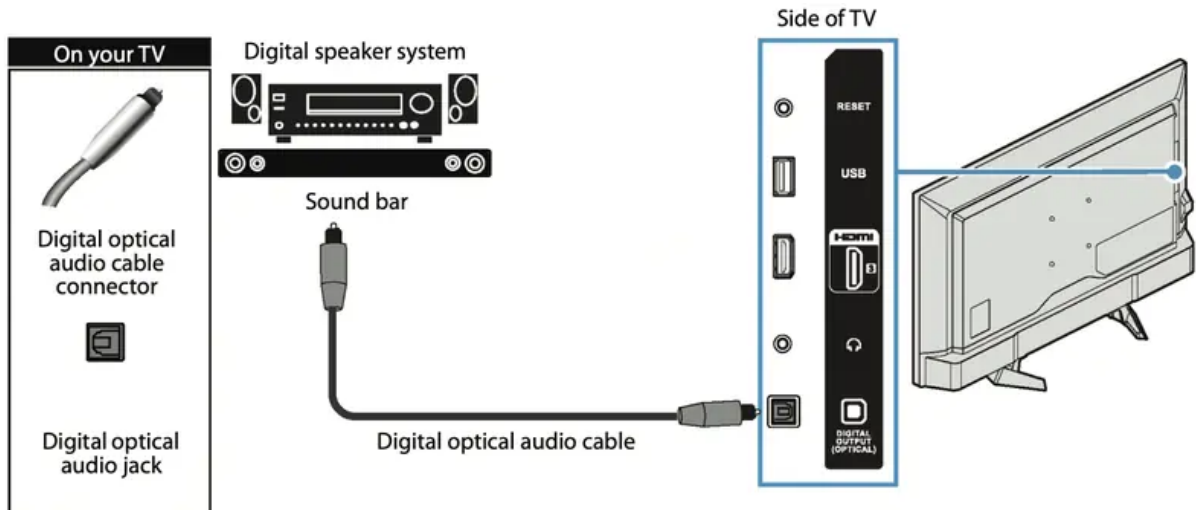
Connecting external speakers or a sound bar

When you connect external speakers or a sound bar, sound plays through your TV speakers and the external speakers or sound bar.

You can connect external speakers or a sound bar using:

- Digital audio using the DIGITAL OUTPUT (OPTICAL) jack
- Digital audio using the HDMI 1/ARC jack
- Analog audio

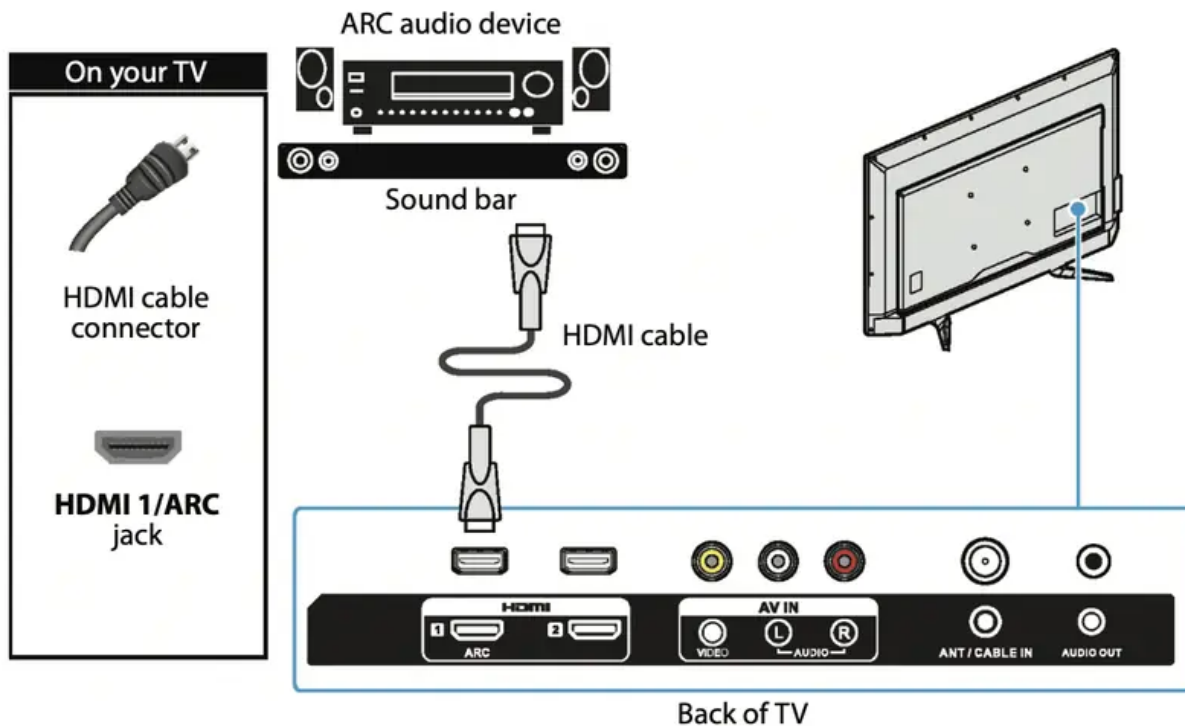
Digital audio using the DIGITAL OUTPUT (OPTICAL) jack



1. Make sure that your TV's power cord is unplugged and the digital speaker system or sound bar is turned off.
2. Connect a digital optical audio cable (not provided) to the DIGITAL OUTPUT (OPTICAL) jack on the side of your TV and to the digital optical AUDIO IN jack on the digital speaker system or sound bar.
3. Plug your TV's power cord into a power outlet, then turn on your TV.
4. Turn on the digital speaker system or sound bar, then set it to the correct source. For more information, see the documentation that came with the digital speaker system or sound bar.
5. To turn off your TV speakers, on the Home menu, press \wedge or \vee to highlight Settings, then press OK. Highlight Audio, then press OK. Highlight TV speakers, then press OK. Press OK to remove the check from the TV speakers enabled check box.

Digital audio using the HDMI 1/ARC jack

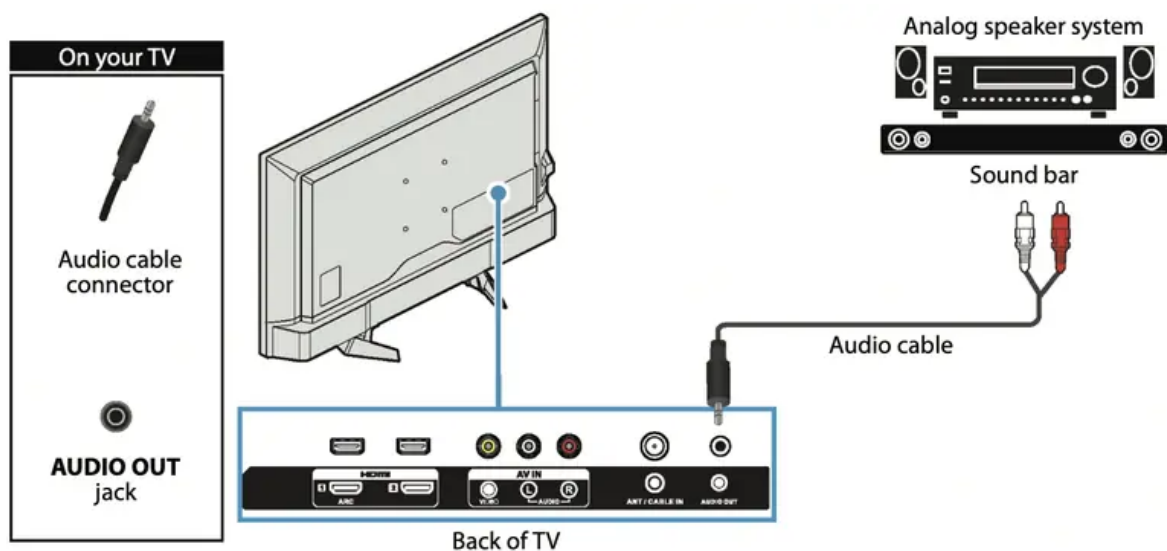
Your TV can send sound to an ARC device, like an AV receiver, to create a home theater that uses two or more speakers. When you connect external speakers or a sound bar, sound plays through your TV speakers and the external speakers or sound bar.



1. Make sure that your TV's power cord is unplugged and the digital speaker system or sound bar is turned off.
2. Connect an HDMI cable (not provided) to the HDMI 1/ARC jack on the back of your TV and to the HDMI IN jack on the digital speaker system or sound bar.
3. Plug your TV's power cord into a power outlet, then turn on your TV.
4. Turn on the digital speaker system or sound bar, then set it to the correct source. For more information, see the documentation that came with the digital speaker system or sound bar.
5. To turn off your TV speakers, on the Home menu, press \wedge or \vee to highlight Settings, then press OK. Highlight Audio, then press OK. Highlight TV speakers, then press OK. Press OK to remove the check from the TV speakers enabled check box.
6. To configure the HDMI 1/ARC jack to output sound to an ARC device, on the Home menu, press \wedge or \vee to highlight Settings, then press OK. Highlight System, then press OK. Highlight Control other devices (CEC), then press OK. Highlight HDMI ARC, then press OK to check the box.

Analog audio

When you connect an analog system or sound bar to the AUDIO OUT jack, your TV speakers are muted.



1. Make sure that your TV's power cord is unplugged and the analog speaker system or sound bar is turned off.
2. Connect an audio cable (not provided) to the AUDIO OUT jack on the back of your TV and to the AUDIO IN jacks on the analog speaker system or sound bar.
3. Plug your TV's power cord into a power outlet, then turn on your TV.
4. Turn on the analog speaker system or sound bar, then set it to the correct source. For more information, see the documentation that came with the analog speaker system or sound bar.

More settings

Changing time settings

You can change time settings to suit your preferences. You can find the following settings by navigating from the Home screen menu to Settings > System > Time:

- **Sleep timer**—Set a time delay after which your TV will automatically shut off. This setting reflects the setting you can make in the Options menu from any TV input, as explained in Options menu settings on page 52. Note that the sleep timer setting is not input specific.
- **Time zone**—Select whether to set the time zone automatically or manually, and if set manually, select your current time zone. Typically, a TV connected to the Internet can discover its own time zone automatically, and a TV that is not connected to the Internet must be set manually. Initially, this setting is made when you set up the TV tuner, as explained in Setting up Antenna TV on page 43. Correct time zone information is needed to correctly display program data.

- **Clock format**—Select whether to display time in a 12-hour or 24-hour format, or to turn off time display. This setting is available only on TVs that are connected to the Internet. Non-connected TVs do not display the time.

Using your TV in a home theater

Your TV has several features that make it an ideal TV for a home theater. But you might not notice them because they remain in the background until you decide to use them.

Turning off the speakers

When you use your TV with a sound bar or an external amplifier and speakers, you'll probably want to turn off the internal TV speakers.

To turn off your TV's built-in speakers, in the Home screen menu, navigate to Settings > Audio > TV speakers and change the setting.

Tip: Your TV's internal speakers can be enabled and disabled automatically as needed by system audio control, as described in Enabling system audio control on page 69. The internal speakers are also turned off when you use the headphone jack.

Changing the audio mode

Your TV has two audio modes, accessed by navigating in the Home screen menu to Settings > Audio > Audio mode:

- **Stereo**—Use this setting for internal speakers, headphones, and external stereo amplifiers connected through the HDMI 1/ARC, DIGITAL OUTPUT (OPTICAL), or headphone jack.
- **Auto**—Use this setting to automatically detect the best audio setting based on the audio stream in the content you are watching. If you have connected your TV to an external Dolby Digital or Dolby Digital Plus compatible amplifier, receiver, or sound bar through HDMI 1/ARC or DIGITAL OUTPUT (OPTICAL), your TV automatically selects the appropriate surround sound capabilities of the device based on the characteristics of the current program.

Setting up a digital audio connection

You can connect your TV to an external amplifier, receiver, or sound bar by using either of these two connections:

- **HDMI ARC**—The HDMI Audio Return Channel enables your TV to output digital audio on one of its HDMI connectors. The connected amplifier can also function simultaneously as an input source to your TV, if needed. To use the ARC capability, you must connect an HDMI cable from your amplifier's HDMI ARC connector to the HDMI 1/ARC connector on

your TV. You also must:

[IMAGE]

- Be sure your HDMI cable is certified by HDMI.
- Enable HDMI ARC under Settings > System > Control other devices (CEC), as explained in Enabling HDMI ARC on page 69.
- **SPDIF**—Your TV has an DIGITAL OUTPUT (OPTICAL) connector that outputs a digital audio signal. To use the optical output, connect a digital optical audio cable from the amplifier to the DIGITAL OUTPUT (OPTICAL) connector on your TV.

Note: Dolby Digital Plus format is not available through the DIGITAL OUTPUT (OPTICAL) output. This format is only available through the HDMI 1/ARC connection.

After making the required HDMI ARC or digital optical audio connection, go to Settings > Audio > SPDIF and ARC option and select the audio format to use.

Note: In most cases, Auto detect is the best option. Other settings can result in no sound when the content you are viewing does not contain the audio stream type you selected.

Controlling other devices through CEC

Consumer Electronics Control (CEC) enables your TV and other CEC-compatible home entertainment components to control one another in various ways. First, the CEC-compatible devices must “discover” one another and report their capabilities. After this, one device can control another according to the features you enable. For example, playing a disc on a Blu-ray player could switch your TV to the Blu-ray player's input. Or, powering off your TV could also power off the Blu-ray player and the home theater receiver.

Discovering connected CEC devices

To discover CEC devices:

1. Make sure that your CEC-compatible components are connected to your TV with a suitable high-speed HDMI cable that supports HDMI ARC and CEC control.
2. Turn on each component and make sure all components have CEC enabled.
Tip: Some manufacturers have their own branded names for CEC functionality, so you might need to read the product documentation to correctly identify the CEC features of the device.
3. On your TV's Home screen menu, navigate to Settings > System > Control other devices (CEC) and then select Search for CEC devices. Press OK to repeat the discovery process, if necessary.

When finished, your TV displays a list of CEC devices that are connected to each HDMI input, as well as any devices that had previously been connected. Your TV remembers the names of multiple CEC devices even when they are no longer connected. If the list is longer than the allowed space, press to see a complete list in a scrollable window.

Enabling HDMI ARC

HDMI 1/ARC is the audio return channel that is available on one of your TV's HDMI ports. The audio return channel enables you to send a Dolby Digital audio signal back to a home theater receiver that is also sending an audio and video signal into your TV. Using HDMI ARC reduces the number of cables needed and optionally lets you control the volume and mute state of the receiver by enabling system audio control.

HDMI ARC is disabled by default. To enable HDMI ARC, in the Home screen menu, navigate to Settings > System > Control other devices (CEC), and then highlight HDMI ARC. Press OK to enable or disable the feature.

Note: Enabling HDMI ARC also enables System audio control. After enabling HDMI ARC, you can disable System audio control if you prefer.

Enabling system audio control

System audio control enables your TV remote control to change the volume and mute state of an amplifier or sound bar connected through HDMI, and to display the external device's volume and mute status in your TV's on-screen display. Your TV automatically turns off its internal speakers and sends volume and mute control signals to an external amplifier when all of the following are true:

- System audio control is enabled on your TV.
- Your TV is connected to a CEC-compatible amplifier, it is powered on, and CEC discoverability is enabled.
- The CEC-compatible amplifier's HDMI ARC connector is connected to your TV's HDMI 1/ARC connector with a suitable HDMI cable.

When the CEC-compatible amplifier is off, your TV automatically turns on its speakers (unless you have turned them off as described in Turning off the speakers on page 68) and resumes local control of volume and mute state.

To enable or disable system audio control, in the Home screen menu, navigate to Settings > System > Control other devices (CEC) and highlight System audio control. Press OK to enable or disable the feature.

Enabling 1-touch play

1-touch play enables a component to control which TV input is active. For example, pressing Play on your Blu-ray player switches your TV to the Blu-ray input.

1-touch play is disabled by default. To enable 1-touch play, in the Home screen menu, navigate to Settings > System > Control other devices (CEC) and highlight 1-touch play. Press OK to enable or disable the feature.

Enabling system standby

The system standby feature causes other components to power off when you power off your TV. Depending on the CEC System Standby implementation, it also might enable connected components to power off your TV when you power off the component.

System standby is disabled by default. To enable system standby, in the Home screen menu, navigate to Settings > System > Control other devices (CEC) and highlight System standby. Press OK to enable or disable the feature.

Restarting your TV

You can restart your TV when necessary. Restarting has the same effect as unplugging your TV power and then plugging it in again.

To restart your TV, navigate to Settings > System > Power and then select System restart. Highlight Restart, and then press OK to confirm restart.

While your TV restarts, the screen goes dark for a few seconds, and then displays the startup screen for a few more seconds. When the restart operation completes, the TV displays the activity you selected in Power on settings on page 61.

Resetting your TV

You can choose to reset only your TV picture and audio settings to their original values, or perform a full factory reset to return your TV to the state it was in when you first unpacked and turned it on.

Reset audio/video settings

To reset only your TV picture and audio settings to their original values, navigate to Settings > System > Advanced system settings > Factory reset, and then highlight Reset TV audio/video settings. Read the information on the screen to make sure you understand what the reset operation does.

To proceed with the reset operation, press PLAY/PAUSE three times in a row.

Factory reset everything

A full factory reset returns your TV to its original, out-of-the-box state. When finished, you must repeat Guided Setup, reconnecting to the Internet, re-linking your Roku account, and reloading any streaming channels. You also must repeat Antenna TV setup and input configuration.

Factory reset is the recommended choice if you want to transfer your TV to another owner, and is the only choice if you want to switch from store mode to home mode (if you inadvertently selected store mode during Guided Setup).

To perform a factory reset, navigate to Settings > System > Advanced system settings > Factory reset, and then highlight Factory reset everything. Read the information on the screen to make sure you understand what this reset operation does. To proceed with the full factory reset, use the on-screen number pad to enter the code displayed on the screen, and then select OK to proceed.

When the factory reset operation completes, your TV restarts and displays the first Guided Setup screen.

What if I can't access the Factory Reset option?

It is possible that your TV might get into a state where you cannot access the various menus, including the menu option that lets you perform a factory reset operation. If that happens, you can force your TV to reset by following these steps:

1. Using a straightened paper clip or ball-point pen, press and hold the recessed RESET button on your TV connector panel.
2. Continue to hold the RESET button for approximately 15 seconds.
During this time, the status light turns off, and then turns on bright, and then pulses. When the reset cycle completes, the light either comes on dim (if your TV power was off when you started) or your TV screen comes on and the light turns off (if your TV power was on when you started).
3. When the status light turns on steady dim or your TV screen comes on, release the RESET button.
4. Proceed through Guided Setup. See Setting up your TV on page 35.

Changing your Roku Channel Store PIN preference

When you created your Roku account, you were given the opportunity to create a PIN code and to specify when it must be used. If you created a Channel Store PIN and want to change it, or you don't remember your PIN, or if you didn't create a Channel Store +PIN and want to add one, you can easily make these changes.

1. On a computer, tablet, or smartphone, use your web browser to go to <https://my.roku.com>.
2. Enter your email address and password to sign in. After signing in, the My Account page appears.
3. Under PIN Preference, click Update to open the Choose Your PIN Preferences page.
4. Skip this step if you just want to change your PIN. Otherwise, choose the option you prefer from among those listed:
Require a PIN to make purchases or to add any item from the Channel Store.
Require a PIN to make purchases.
Do not require a PIN to make purchases.
5. If you choose either of the first two options, enter your PIN twice in the appropriate boxes.
6. Click Save Changes to save your changes and return to the My Account page. Note that your current setting is described under PIN Preference.

Other devices

Screen Mirroring your phone or tablet

Your TV has a feature called screen mirroring that lets you mirror your compatible smartphone or tablet on your TV. Share videos, photos, web pages, and more from compatible devices. This screen mirroring feature is in a 'beta' period, which lets you try it out and allows Roku to learn what needs to be improved—so don't be surprised if it doesn't work perfectly.

Notes

- Many features work with top mobile devices.
- Your TV must be connected to the Internet and linked to a Roku account to use screen mirroring. The Screen Mirroring option is not available on non-connected TVs.

Getting and using the Roku mobile app

Roku makes the Roku mobile app free for compatible iOS, Android, and Microsoft Windows 8/8.1 devices.

With the Roku mobile app, you can control your TV, find and add new Roku Channels, more easily search and find something to watch, and even use your voice to search without typing.

Using a universal remote

In many cases, you can program your cable or satellite universal remote control to also control your TV. You will need to have instructions for programming the remote control handy. Check with your cable or satellite provider for instructions.

Maintaining

- Do not use your TV in areas that are too hot or too cold, because the cabinet may warp or the screen may malfunction. Your TV works best in temperatures that are comfortable to you.
- Storage temperatures are 5° to 113°F (-15° to 45°C).
- Working temperatures are 41° to 95°F (5° to 35°C).
- Do not place your TV in direct sunlight or near a heat source.

Cleaning your TV cabinet

Clean the cabinet with a soft, lint-free cloth. If the cabinet is especially dirty, moisten a soft, lint-free cloth in a weak detergent solution, squeeze the excess moisture from the cloth, then wipe the cabinet with the cloth. Use a clean cloth to dry the cabinet.

Cleaning your TV screen

Clean the screen with a soft, lint-free cloth.

Troubleshooting

Warning: Do not try to repair your TV yourself. Contact authorized service personnel.

Note: If the problem is not solved by using these troubleshooting instructions, turn off your TV, then turn it on again.

Video and audio

Symptom	Possible cause	Try this...
Picture does not fill the screen or there are black bars around the picture	The picture size may need to be adjusted	<ul style="list-style-type: none"> • Adjust the picture size (aspect ratio). See the Picture Size option in Advanced picture settings menu options on page 54.
I don't see a picture when I select an input	TV is not on	<ul style="list-style-type: none"> • Make sure that your TV is plugged into a working power outlet, and that your TV is turned on. (Your TV had a light on the front that indicates if your TV is turned off. See Status light on page 46.)
	Cables are not connected correctly	<ul style="list-style-type: none"> • Make sure that the video cables are connected correctly and securely to your TV. • Make sure that the antenna or cable TV is connected correctly and securely. See Connecting a cable or satellite box on page 17 or Connecting an antenna or cable TV (no box) on page 20.
	Picture settings may be incorrect	<ul style="list-style-type: none"> • Adjust the contrast and brightness. See the TV brightness option in Settings menu on page 51 or Options menu on page 51. • Adjust the TV picture. See Advanced picture settings on page 54.
	Incorrect input may be selected	<ul style="list-style-type: none"> • Make sure that the correct input is selected for the device you want to view. See Switching TV inputs on page 48.

	Input source not detected	<ul style="list-style-type: none"> • Make sure that the device connected to the input is turned on. • Make sure that the cord to and from the device is connected firmly and correctly to the device and your TV.
	TV input may be bad	<ul style="list-style-type: none"> • Connect a different device to the same input and check to see if it works correctly.
TV channel does not appear	Broadcast TV may be experiencing problems or may not be set up	<ul style="list-style-type: none"> • Try another channel. The station may be experiencing problems. • Make sure that the incoming signal is compatible. • If you are trying to watch broadcast TV, make sure that Antenna TV is set up. See Setting up Antenna TV on page 43.
Dark, poor, or no picture (screen is lit), but sound is good	Broadcast TV may be experiencing problems or may not be set up	<ul style="list-style-type: none"> • Try another channel. The station may be experiencing problems. • If you are using an antenna and the signal strength is low, adjust the antenna or use a highly directional outdoor antenna or set-top antenna with a built-in amplifier.
	Cables may not be connected correctly	<ul style="list-style-type: none"> • Make sure that the antenna or cable TV is connected correctly and securely. See Connecting a cable or satellite box on page 17 or Connecting an antenna or cable TV (no box) on page 20. • Make sure that the video cables are connected correctly and securely to your TV. • The video cable(s) you are using may be bad. Try a new set.
	Picture settings may be incorrect	<ul style="list-style-type: none"> • Adjust the brightness. See the TV brightness option in Settings menu on page 51 or Options menu on page 51.

		<ul style="list-style-type: none"> • Change to a different picture mode. See the Picture mode option in Options menu settings on page 52 or Advanced picture settings menu options on page 54.
No color, dark picture, or color is not correct	Picture settings may be incorrect	<ul style="list-style-type: none"> • Adjust the contrast, color, and brightness settings. See the TV brightness option in Settings menu on page 51 or Options menu on page 51.
	Broadcast TV may be experiencing problems	<ul style="list-style-type: none"> • Try another channel. The station may be experiencing problems. • If you are using an antenna and the signal strength is low, adjust the antenna or use a highly directional outdoor antenna or set-top antenna with a built-in amplifier.
	Cables are not be connected correctly	<ul style="list-style-type: none"> • Make sure that the antenna or cable TV is connected correctly and securely. See Connecting a cable or satellite box on page 17 or Connecting an antenna or cable TV (no box) on page 20. • Make sure that the video cables are connected correctly and securely to your TV. • The video cable(s) you are using may be bad. Try a new set.
Only snow (noise) appears on the screen	Broadcast TV may be experiencing problems or may not be set up	<ul style="list-style-type: none"> • Try another channel. The station may be experiencing problems. • If you are trying to watch broadcast TV, make sure that Antenna TV is set up. See Setting up Antenna TV on page 43. • If you are using an antenna and the signal strength is low, adjust the antenna or use a highly directional outdoor antenna or set-top antenna with a built-in amplifier.

	Cables may not be connected correctly	<ul style="list-style-type: none"> • Make sure that the antenna or cable TV is connected correctly and securely. See Connecting a cable or satellite box on page 17 or Connecting an antenna or cable TV (no box) on page 20.
Picture quality is good on some channels and poor on others. Sound is good	Broadcast signal may be weak	<ul style="list-style-type: none"> • If you connect to cable without a set-top box and experience poor picture quality, you may need to install a set-top box to improve signal reception and picture quality. Contact your cable TV provider about upgrading to a set-top box.
Dotted lines or stripes appear on the screen	Cables may not be connected correctly	<ul style="list-style-type: none"> • Make sure that the antenna or cable TV is connected correctly and securely. See Connecting a cable or satellite box on page 17 or Connecting an antenna or cable TV (no box) on page 20. • Make sure that the video cables are connected correctly and securely to your TV. • The video cable(s) you are using may be bad. Try a new set.
	Broadcast signal may be weak	<ul style="list-style-type: none"> • If you are using an antenna and the signal strength is low, adjust the antenna or use a highly directional outdoor antenna or set-top antenna with a built-in amplifier. • Other devices (for example, a surround sound receiver, external speakers, fans, or hair dryers) may be interfering with your TV. Try turning off one device at a time to determine which device is causing interference. After you have determined which device is causing interference, move it further from your TV to eliminate the interference.

Double images	Broadcast signal may be weak	<ul style="list-style-type: none"> • If you are using an antenna and the signal strength is low, adjust the antenna or use a highly directional outdoor antenna or set-top antenna with a built-in amplifier. • If you are using an antenna and the signal strength is low, switch to a cable or satellite box.
The picture has a few bright or dark spots	This is normal in LED TVs	<ul style="list-style-type: none"> • A few bright or dark spots on an TV screen is normal. It does not affect the operation of your TV.
Good picture, but no sound	Volume is down or muted	<ul style="list-style-type: none"> • Increase the volume. • Make sure that the sound is not muted.
	Headphones may be connected	<ul style="list-style-type: none"> • Make sure that you do not have headphones connected. When headphones are connected, no sound comes from your TV speakers.
	TV speakers may be turned off	<ul style="list-style-type: none"> • If you want sound to play through your TV speakers, make sure that your TV speakers are turned on. See Turning off the speakers on page 68.
	You may need to change the audio mode	<ul style="list-style-type: none"> • Change to a different audio mode. See Changing the audio mode on page 68.
	Home theater system, sound bar, or external speaker system may not be turned on or may not be set up correctly	<ul style="list-style-type: none"> • If you are using a home theater system, sound bar, or external speaker system, make sure that it is turned on and is not muted and that it is set to the correct source. • If you connected an ARC audio device to the HDMI 1/ARC jack, make sure that you have turned on the ARC feature. See the

		<p>HDMI ARC option in Setting up a digital audio connection on page 68.</p> <ul style="list-style-type: none"> • If you are using a home theater system, sound bar, or external speaker system and have connected it with a digital audio cable, see Setting up a digital audio connection on page 68. • Make sure that the audio cables are connected correctly and securely to your TV.
	Bad content, no audio	<ul style="list-style-type: none"> • Make sure that the selected channel or content is intended to be broadcasting with sound.
	Cables may not be connected correctly	<ul style="list-style-type: none"> • Make sure that the antenna or cable TV is connected correctly and securely. See Connecting a cable or satellite box on page 17 or Connecting an antenna or cable TV (no box) on page 20. • The audio cables you are using may be bad. Try a new set.
Poor picture	Light in the viewing area may be interfering	<ul style="list-style-type: none"> • Make sure that the room is not too bright. Light reflecting off the screen can make the picture difficult to see.
	A connected camera or cam corder may be interfering	<ul style="list-style-type: none"> • If an S-VHS camera or a cam corder is connected while another connected device is turned on, the picture may be poor. Turn off one or more devices.
Audio noise	Other devices may be interfering	<ul style="list-style-type: none"> • Other devices (for example, a surround sound receiver, external speakers, fans, or hair dryers) may be interfering with your TV. Try turning off one device at a time to determine which device is causing interference. After you have determined which device is causing interference, move

		it further from your TV to eliminate the interference.
After images appear		<ul style="list-style-type: none">• Do not display a still image, such as a logo, game, or computer image, for an extended period of time. This can cause a permanent after-image to be burned into the screen. This type of damage is not covered by your warranty.



Remote control

Symptom	Possible cause	Try this...
My TV doesn't turn on using the remote control	No power to TV	<ul style="list-style-type: none"> • Make sure that the power cord is correctly connected to both your TV power connector and power outlet. See Connecting power on page 32. You should see an LED in the front of the TV panel when a button on the remote is pressed. If you see no LED activity, try another outlet or check your fuse box.
	Line-of-sight obstructed	<ul style="list-style-type: none"> • Make sure that no objects (or pets) are obstructing the line-of-sight from the remote control to the remote sensor on the front of your TV. See Aiming the remote control on page 33.
	Remote not responding	<ul style="list-style-type: none"> • Open the battery compartment and make sure that the batteries are seated in the correct positions (+ and - in the correct positions). See Installing remote control batteries on page 33. • Make sure the batteries are fresh and working correctly. Replace the batteries, if necessary.
	TV frozen	<ul style="list-style-type: none"> • If the front LED is not responding, or abnormally bright, disconnect the power cord from the power outlet, wait a few seconds, then reconnect the power cord.
Trouble programming your existing universal remote control	Remote control may not be programmed correctly	<ul style="list-style-type: none"> • See instructions in Using a universal remote on page 72. • Refer to the User Guide that accompanied your universal remote control and contact the manufacturer if problems persist.
	Batteries may be dead	

- Replace dead batteries with new batteries. Refer to the User Guide that accompanied your universal remote control.



General

Symptom	Possible cause	Try this...
No power	Power cord may not be connected correctly	<ul style="list-style-type: none"> • Make sure that the power cord is correctly connected to both your TV power connector and power outlet. See Connecting power on page 32. You should see an LED in the front of your TV panel when a button on the remote is pressed. If you see no LED activity, try in another outlet or check your fuse box. • Unplug the power cord, wait 60 seconds, then plug the cord back in and turn on your TV.
	Other devices may be interfering	<ul style="list-style-type: none"> • Other devices (for example, a surround sound receiver, external speakers, fans, or hair dryers) may be interfering with your TV. Try turning off one device at a time to determine which device is causing interference. After you have determined which device is causing interference, move it further from your TV to eliminate the interference.
My TV tuner does not pick up as many over-the-air channels as it should	Antenna may not be placed optimally	<ul style="list-style-type: none"> • Adjust the antenna location and rescan. See Scanning for broadcast TV channels again on page 68. Go to Settings > Input. • Reception can vary by channel depending on the broadcast power level of a given station. Contact your cable or satellite TV provider. • Make sure that the antenna or cable/satellite TV is connected securely to your TV. • Try replacing the cable between the antenna/cable or cable/satellite box and your TV.
	Broadcast TV may not be set up	<ul style="list-style-type: none"> • Make sure that Antenna TV is set up. See Setting up Antenna TV on page 43.

One or more channels do not display	Channels may be blocked or hidden	<ul style="list-style-type: none"> • Make sure that the channels are not blocked. See Blocking unrated programs on page 64. • Make sure that the channels are not hidden. The channel may have been deleted from the channel list. You can add the channel back to the channel list. See Edit broadcast TV channel line up on page60.
	The wrong input may be selected	<ul style="list-style-type: none"> • Make sure that you have selected the correct input tile for the device or service you are trying touse. See Switching TV inputs on page 48.
	You may need to use the remote control that came with the cable or satellite box	<ul style="list-style-type: none"> • If you are using a cable or satellite box, use the remote that came with that box to change channels.
I lost my parental control PIN	Need PIN recovery	<ul style="list-style-type: none"> • You will need to factory reset your TV, as the PIN cannot be recovered or reset any other way. See Factory reset everything on page 70. Go to Settings > System > Factory reset.
Some settings cannot be accessed	Not all settings are available for all devices or inputs	<ul style="list-style-type: none"> • If the icon or a menu option is grayed, you cannot adjust settings for the current video input mode.
TV cabinet creaks	This is normal	<ul style="list-style-type: none"> • When your TV is in use, the temperature rises naturally and may cause the cabinet to expand or contract which can cause a creaking noise. This is not a malfunction.
Control buttons do not work	TV may be frozen	<ul style="list-style-type: none"> • Unplug the power cord, wait a few seconds, then plug the cord back in and turn on your TV.

<p>TV keeps turning off</p>	<p>Sleep timer may be turned on</p>	<ul style="list-style-type: none"> • Make sure that the sleep timer is not turned on. See the Sleep Timer option in Options menu settings on page 52 or Changing time settings on page 67.
<p>Some features are not available</p>	<p>The wrong TV mode may be selected</p>	<ul style="list-style-type: none"> • You may have Set up for store mode when you set up your TV. Store use mode is for retail environments only. In Store use mode, some of your TV's features are missing or limited. If you selected Set up for store use and you want to change to Set up for home use, you have to reset your TV to the factory defaults. See Factory reset everything on page 70. Go to Settings > System > Factory reset.



Roku

Symptom	Possible cause	Try this...
I can't turn my TV on with the Roku mobile app	Your TV is "asleep"	<ul style="list-style-type: none"> You will need to use the physical remote button to "wake up" or turn on your TV.
I can't find my TV with the Roku mobile app	TV and mobile app not on same wireless network	<ul style="list-style-type: none"> Make sure that your TV and the mobile app are on the same network.
	TV not powered or working normally	<ul style="list-style-type: none"> Make sure that your TV is connected to a working power outlet and that your TV is turned on. See Connecting power on page 32.
I cannot screen mirror to myTV	TV on older software	<ul style="list-style-type: none"> Always keep your TV updated. See Getting system updates on page 71. Go to Settings > System > Software update.
	Mobile device not supported	<ul style="list-style-type: none"> Screen mirroring is a beta feature currently, so a select set of devices will work.

Network

Symptom	Possible cause	Try this...
I cannot connect to the Internet	Network connection may not be set up	<ul style="list-style-type: none"> • If you did not connect to the Internet when you first set up your TV, see But what if I didn't connect my TV? on page 43.
	Network name or password may have changed	<ul style="list-style-type: none"> • If your network name or password had changed, you need to update your network connection. See Changing network settings on page 66.
Streaming keeps pausing to load more data	Wireless LAN not optimized	<ul style="list-style-type: none"> • Rotate wireless router slightly • Elevate the router • Turn off other wireless connections • Use 5.0Ghz, if possible. Roku TVs supports dual band.
	Insufficient broad band speed	<ul style="list-style-type: none"> • Turn off other wireless connections that may also be using band width.

CEC-compatible devices



Symptom	Possible cause	Try this...
My TV is not displaying the video from the connected CEC device	Cables may not be connected correctly	<ul style="list-style-type: none"> • Make sure that the HDMI cable is connected securely to your TV and the device. • Make sure that the device is connected to your TV with an HDMI cable.
	Picture settings may be incorrect	<ul style="list-style-type: none"> • Try adjusting your TV picture. See Advanced picture settings on page 54.
	The selected input may be incorrect	<ul style="list-style-type: none"> • Make sure that the correct input tile is selected. See Switching TV inputs on page 48.
	Connected device may not be a CEC device	<ul style="list-style-type: none"> • Make sure that the device is a CEC device. See the documentation that came with the device for more information.
	CEC control may not be set up correctly	<ul style="list-style-type: none"> • Make sure that your TV has searched for CEC devices. See Discovering connected CEC devices on page 69.
My TV is not playing the audio from the connected CEC device.	Cables may not be connected correctly	<ul style="list-style-type: none"> • Make sure that the HDMI cable is connected securely to your TV and the device.
	Volume may be too low or muted	<ul style="list-style-type: none"> • Make sure that the volume on your TV and the device is turned up and not muted.
	TV speakers may be turned off	<ul style="list-style-type: none"> • If you want sound to play through your TV speakers, make sure that your TV speakers are turned on. See Turning off the speakers on page 68.
	Connected device may not be a CEC device	<ul style="list-style-type: none"> • Make sure that the device is a CEC device. See the documentation that came with the device.

	CEC control may not be set up correctly	<ul style="list-style-type: none"> • Make sure that your TV has searched for CEC devices. See Discovering connected CEC devices on page 69.
	Connected audio device may not be setup correctly	<ul style="list-style-type: none"> • If you are using a home theater system, sound bar, or external speaker system, make sure that it is set to the correct source. • If you are using a home theater system, sound bar, or external speaker system and have connected it with a digital audio cable, make sure that you have set up digital audio. See Setting up a digital audio connection on page 68. • If you connected an ARC audio device to the HDMI 1/ARC jack, make sure that you have turned on the ARC feature. See Enabling HDMI ARC on page 69.
My TV's remote control does not control the device	Connected device may not be turned on	<ul style="list-style-type: none"> • Make sure that the device is turned on.
	Line-of-sight obstructed	<ul style="list-style-type: none"> • Make sure that no objects (or pets) are obstructing the line-of-sight from the remote control to the remote sensor on the front of your TV and the device. See Aiming the remote control on page 33.
	Connected device may not support some or all CEC features	<ul style="list-style-type: none"> • Depending on the device, all the buttons may not work. • The device may not support this feature. See the documentation that came with the device for more information.
	CEC control may not be setup correctly	<ul style="list-style-type: none"> • Make sure that your TV has searched for CEC devices. See Discovering connected CEC devices on page 69.

		<ul style="list-style-type: none"> • If you are trying to control the volume on an HDMI CEC audio receiver using your TV remote control, make sure that your TV speakers are turned on. See Turning off the speakers on page 68. • If you are trying to control the volume on an HDMI CEC audio receiver using your TV remote control, make sure that the system audio control is turned on. See Enabling system audio control on page 69.
The device does not show up in the CEC device list	Connected device may not be a CEC device	<ul style="list-style-type: none"> • Make sure that the device is a CEC device. See the documentation that came with the device.
	Cables may not be connected correctly	<ul style="list-style-type: none"> • Make sure that the HDMI cable is connected securely to your TV and the device. • Make sure that the device is connected to your TV with an HDMI cable.
	CEC control may not be setup correctly	<ul style="list-style-type: none"> • Make sure that your TV has searched for CEC devices. See Discovering connected CEC devices on page 69.
My device does not turn off when I turn off my TV	Connected device may not be a CEC device	<ul style="list-style-type: none"> • Make sure that the device is a CEC device. See the documentation that came with the device.
	Connected device may not support some or all CEC features	<ul style="list-style-type: none"> • The device may not support this feature. See the documentation that came with the device for more information.
	CEC control may not be setup correctly	<ul style="list-style-type: none"> • Make sure that your TV has searched for CEC devices. See Discovering connected CEC devices on page 69. • Make sure that system standby is turned on. See Enabling system standby on page 69.



My TV does not turn on when I turn on my device	Connected device may not be a CEC device	<ul style="list-style-type: none"> • Make sure that the device is a CEC device. See the documentation that came with the device.
	Connected device may not support some or all CEC features	<ul style="list-style-type: none"> • The device may not support this feature. See the documentation that came with the device for more information.
	CEC control may not be setup correctly	<ul style="list-style-type: none"> • Make sure that your TV has searched for CEC devices. See Discovering connected CEC devices on page 69. • Make sure that 1-touch play is turned on. See Enabling 1-touch play on page 69.

Warning

This content is compiled from multiple sources and is provided for reference purposes only. It may not be complete or fully applicable to all situations. If you are unable to resolve your issue, please contact the product manufacturer or an authorized service provider for official support.

