

## Connections and setup

Refer to your TV's Quick Start Guide or other provided documentation to for modelspecific information about attaching the base or a wall mount and making connections to AC power and to your other audio/video devices. The following information applies to all Roku TV models.

### Connecting an antenna, cable, or satellite box

If you are using an antenna, CATV cable without a set-top box, or a cable or satellite box that has only an antenna output, connect a 75-ohm coaxial cable (not provided) from the device to the ANT/CABLE input on the TV.

**Tip:** If you are using an antenna with a 300 ohm twin-lead cable, you need to use a 300-to-75 ohm adapter (not provided) to adapt the twin-lead cable to a connection that is compatible with the TV's antenna input.

**Tip:** If you receive your TV stations through a set top box from a cable or satellite TV provider, connect it to the TV using the best connection method available. From most to least desirable:

- **HDMI® input-** Digital HD and SD video
- **AV input-** analog SD video
- **Antenna input** -analog SD video using NTSC

### Connecting external equipment with a composite AV video cable

If the best connection available on your device is AV or composite video output, connect it to the TV using a composite AV cable (not provided). Composite AV cables typically have three RCA-type plugs on each end, color coded as follows:

- Yellow Video
- Red Audio, right channel
- White or black Audio, left channel

Connect each plug to the corresponding connector on the device and on the TV.

**Note:** Select models have an AV Input that looks like a headphone jack. Use the breakout cable (included) to adapt this input to the three RCA-type plugs on your composite cable.

### Connecting external equipment with an HDMI® cable

If possible, connect your devices using HDMI® cables (not provided). They help to provide the best video quality and also carry audio signals, so that only one cable is needed. For better picture quality, we recommend that you use cables designated as High Speed HDMI® Cables.

**Tip: You might need to configure the device to send its signal through its HDMI ® connector.**

The connector labeled HDMI IN (ARC) has the additional ability to use the audio return channel to send digital audio to a receiver or sound bar, as explained in Connecting an AV receiver or digital sound bar.

### **Connecting headphones or analog sound bar to the TV**

You can connect headphones or an analog sound bar (not provided) to the TV headphone jack.

**Tip:** Inserting a plug in the headphone jack disables the sound from the TV's built-in speakers.

**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.

Select models also have an audio line out connection that is not affected by TV volume or mute settings and does not disable the TV speakers. Use this connection when you want to use your amplifier or sound bar to control the TV volume. To turn off the TV's built-in speakers, in the Home screen menu, navigate to Settings > Audio > TV speakers and change the setting.

### **Connecting headphones to the Roku Enhanced Voice Remote**

Select Roku TVs come with the Roku Enhanced Voice Remote. On these models, you can connect headphones to the jack on the left side of the remote.

**Tip:** Inserting a plug in the remote's headphone jack disables the sound from the TV's built-in speakers or attached receiver or sound bar. The volume and mute controls on the right side of the remote adjust the volume level of the connected 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. You might notice that connecting headphones to your remote shortens the remote's battery life somewhat

### **Connecting an AV receiver or digital sound bar**

You can enjoy Dolby Audio™ multichannel sound from your TV if you connect a digital amplifier or sound bar (not provided) in either of two ways:

Digital optical audio out (S/PDIF) Connect a TOSLINK optical cable (not provided) from the TV to the Optical input on your receiver or sound bar.

HDMI® ARC Connect an HDMI® cable (not provided) from the HDMI (ARC) connector to the HDMI® input on your receiver or sound bar. This connection uses the Audio Return Channel (ARC) feature of the HDMI® specification to output sound from the TV to a compatible device. To use this feature, you must configure the TV to enable HDMI® ARC, as explained in Enable HDMI® ARC

## Preparing for Internet connectivity

If you want to watch streaming content and take advantage of the cool features of your Roku TV, connect it to the Internet through a wireless modem/router or a wireless access point (not provided). The TV has a built-in wireless LAN adapter.

**Note:** The TV supports only its internal wireless network adapter it does not support the use of a USB network adapter.

Select 4K models have wired in addition to wireless network connectivity. To use the wired network connection, connect an RJ-45 Ethernet cable (not provided) from the jack on the back of your TV to your network router or switch. The wired connection supports both 10 Base-T and 100 Base-T Ethernet.

## AC power

Plug your TV into a power outlet. You can tell that the TV has power because the status indicator lights up when the TV is off.

The topic Status indicator explains how the status indicator shows what is happening with the TV.

## Roku remote batteries

Open the back of your Roku remote and insert the included batteries, observing the proper orientation as indicated in the battery compartment. Reattach the back cover.




## Roku TV remote

Use the following information to identify the buttons on your Roku remote.








**Note:** Certain remote buttons and features vary by model. Your remote might not have all buttons or features listed.

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If your remote has a microphone button  just below the purple pad, then you have a Roku Voice Remote.

- If your remote has a headphone jack on its left edge, then you have a Roku Enhanced Voice Remote.

The Roku voice remotes have additional capabilities as described in the following table.

BUTTON	FUNCTION	DESCRIPTION
	POWER	Turns TV on and off.
	BACK	<ul style="list-style-type: none"> <li>Menu: Goes back to previous menu/screen.</li> <li>Home screen tile: Moves highlight back to the Home screen option.</li> <li>Watching Antenna TV or a TV input: Returns to Home screen.</li> <li>Playing streaming content: Stops playing stream and returns to the previous menu or screen.</li> <li>Browsing streaming content: Goes to the previous level in the content tree.</li> </ul>
	HOME	Immediately returns to the Home screen.
	PAD	<ul style="list-style-type: none"> <li><b>LEFT/RIGHT/UP/DOWN</b> moves the highlight in the corresponding direction.</li> <li><b>OK</b> selects the highlighted option.</li> </ul> <p>While watching TV:</p> <ul style="list-style-type: none"> <li><b>UP/DOWN</b> changes channel.</li> <li><b>LEFT</b> displays the Smart Guide<sup>1</sup> (connected mode) or channel list (non-connected mode).</li> <li><b>LEFT/RIGHT</b> <i>only on TVs operating in non-connected mode</i>, while in the channel list switches between All Channels and FAVORITE CHANNELS.</li> <li><b>OK</b> while in the channel list selects the highlighted channel.</li> </ul> <p>While watching live TV: displays the program information banner.</p>
	VOICE SEARCH and VOICE COMMANDS	<p><i>Only on select models with Roku voice remotes, hold and say the name of a movie, TV show, or actor. Additionally, only in the United States:</i></p> <ul style="list-style-type: none"> <li>Search for programs by director or genre, including the special genre "free."</li> <li>See search results that include Antenna TV channels.</li> <li>Use your voice to start streaming, change a channel, and more.</li> </ul> <p>For more information, go to:  <a href="http://go.roku.com/voicesearch">go.roku.com/voicesearch</a></p>
	GAME MODE	<p><i>Select models.</i> Displays a banner showing the current Game mode or <b>Not available at this time</b>. Subsequent presses toggle Game mode. When <b>On</b>, the TV performs less image processing and has less input lag, producing a better experience with action games. <i>Available only for HDMI and AV inputs.</i></p> <p><i>Select models.</i> Auto Low Latency Mode (ALLM) detects certain game consoles connected to an HDMI input and automatically switches to the best settings for action games. When ALLM is active, the manual <b>Game mode</b> setting is unavailable.</p> <p><b>Note:</b> <i>If you have paired Roku Wireless Speakers with your TV, enabling <b>Game mode</b> switches sound back to the internal TV speakers to avoid latency or lag in game play. Disabling <b>Game mode</b> switches sound back to the Roku Wireless Speakers.</i></p>
	INSTANT REPLAY	<i>Select models.</i> Streaming programs that support this feature and Antenna TV channels: if Live TV Pause is

## Guided Setup

With the preliminaries out of the way, it's time to turn on your TV. As the TV starts for the first time, it leads you through Guided Setup, which configures the TV before you start to use it.

### During Guided Setup, you'll:

- Answer a few questions
- Provide network connection information
- Get a software update
- Link your TV to your Roku account.
- Connect devices such as a DVD player, game console, or cable box.

### Starting Guided Setup

To start Guided Setup, press the POWER button on the remote to turn on your TV.

Note: Guided Setup normally runs only once, the first time you turn on your TV. If you need to run Guided Setup again, you'll have to perform a factory reset, as explained in [Factory reset everything](#).

When you first turn on your TV, it will take a few seconds to get itself ready. You'll notice the following things happening:

1. The status indicator blinks every time the TV is busy doing something; in this case it's powering up and getting ready for you.
2. The power-on screen appears and the status indicator blinks slowly for a few more seconds. The power-on screen shows a brand logo while the TV starts up.
3. After a few seconds, Guided Setup starts.

### Completing Guided Setup

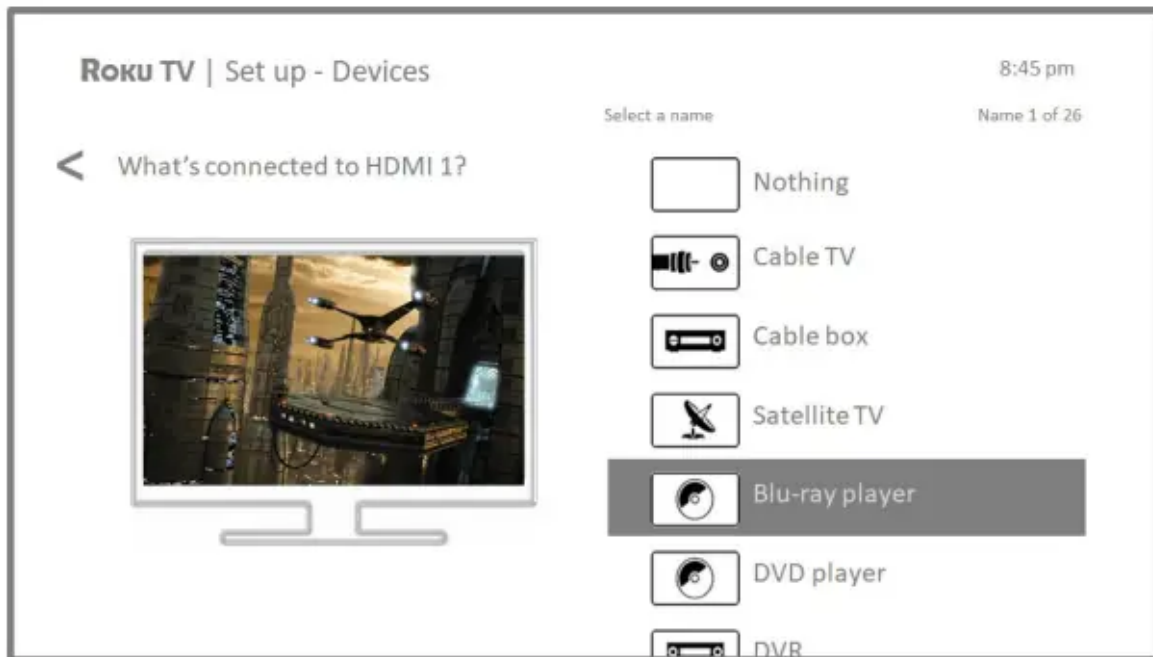
Follow these steps to complete Guided Setup. At this point, you should be seeing the Language screen.

**\*** button on the remote four times in rapid succession. Repeat to disable Audio Guide. (The **\*** button is located directly below the directional pad on the right side of the Roku remote.)

**Note:** If you enabled Audio Guide, choosing any language other than English disables it.

- Press the DOWN arrow on the remote to highlight your preferred language, and then press OK or the RIGHT arrow.

- Some models have a country selection screen: If you don't see this screen, skip ahead to the next step. If you see this screen, select your country.



13. Press the **UP** or **DOWN** arrows to highlight the label you want to associate with the input. If you are not using the input, select Nothing, and the input won't appear on the Home screen.

14. While setting up your devices, rather than using the predefined names and icons, you can set a custom name and icon. To do so, scroll up or down to highlight **Set custom name & icon**, and then press **OK**. Follow the instructions on the screen to enter a name and select an icon for the input. See Rename inputs for more information.

**Note:** If you have specified a custom name for an input, you cannot use voice commands to switch to that input. Voice commands can only switch among inputs that use built-in names, such as "AV," and "Cable Box," and "DVR." Voice commands are available only in English language and only in the United States.

15. Repeat the previous step for each input. You're done with Guided Setup

**\*** ), you can press the **\*** button on your remote control to see More Ways to Watch. And your most-watched channels are automatically grouped into a Favorites section at the top of the Smart Guide.

**More Ways to Watch** only in the United States, gives you recommendations about the show you are watching on the Antenna TV, HDMI, or AV input, gives you options to stream the current show from the beginning, the entire season, or the entire series, and recommends other shows with similar themes. It also uses the shows you watch to display ads that are more relevant to you

**Roku Zones** only in the United States, organize your search results into browsable rows, such as New Release, Free, and Rent or Buy, so you can see at a glance how a program is offered. If you have a 4K Roku TV, results also include a 4K Spotlight Zone.

**4K Spotlight Channel** now has a new look and simpler navigation to help you find 4K entertainment quickly. Launching the channel takes you to the 4K Movies and TV Zone, where you'll find a regularly updated, hand-curated selection of 4K entertainment from channels across the Roku platform. You can browse a wide variety of 4K titles across a number of categories such as Most Popular, Action, and more, to find the perfect movie or show to enjoy in beautiful 4K resolution.

**Live TV Pause** lets you connect a USB drive (not provided) and pause live TV for up to 90 minutes. After pausing, you can play, fast-forward, rewind, and pause again to any point within the rolling 90-minute window.

**Voice commands with multiple device support** only in the United States, let you use your Roku Voice Remote, Roku Enhanced Voice Remote, Google Assistant, Amazon Alexa, or the Roku mobile app to change stations, TV inputs, and launch streaming channels, and more. Include a location in your command such as "in the bedroom" to specify which Roku device you want to control.

**Tips & Tricks channel** only in the United States, is packed with videos created by Roku to help you learn more about features, new products, and popular support topics

**My Offers** only in the United States, show up in the Home screen menu if you are eligible for special offers or discounts on Roku products.

**Mobile Private** Listening on the Roku mobile app lets you listen to streaming programs and "over-the-air" TV shows from the Antenna TV input on headphones (not provided) plugged into your IOS® or Android™ mobile device.

## What is streaming?

Streaming is viewing or listening to video or audio content that is sent over the Internet, or located on a network-connected media server or on a USB device plugged into the TV's USB port.

With streaming, you can buy or rent most programs on demand, when it's convenient for you. When streaming, you can play, pause, rewind, and fast forward most of what you are watching. You can also replay the last few seconds again, or turn on closed captions.

**Tip:** Some content cannot be paused or skipped. For example, if you are viewing live programming or a program that is supported by ads, you might not be allowed to skip the ads.

Your Roku TV lets you choose from thousands of streaming channels that offer a huge selection of entertainment:

- Thousands of movies and TV episodes
- Unlimited music, live and on-demand
- Tons of live and on-demand sports
- Commercial-free kids programming

- International programming in 22 languages
- 24x7 news and in-depth news commentary

Many streaming channels are free. Some streaming channels, like Google Play, let you purchase or rent the latest movie releases or popular TV series. Some channels such as Netflix or Acorn TV charge a monthly subscription fee and others are available at no additional cost if you subscribe to a companion service through your cable or satellite provider.

If you have an existing subscription to a service like Netflix, you can just sign in with your existing user name and password.

To play streaming content, you add streaming channels to your Home screen. Use the Streaming Channels option on the Home screen menu to go to the Roku Channel Store, and then select the streaming channel you want to add. The channel remains on your Home screen unless you remove it, and you can watch it at any time.

For more information on using the Roku Channel Store feature, see [Using the Roku Channel Store](#).

**Note:** A paid subscription or other payments may be required for some channels. Channel availability is subject to change and varies by country. Not all content is available in countries or regions where Roku® products are sold.

## What if I didn't connect my TV?

What if you went through Guided Setup and chose Connect to the Internet later? No worries. Your Roku TV makes it easy to connect whenever you want. As you move around the Home screen, you'll see several places where you can start the connection process. For example:

- Now and then you'll see a message appear on the panel to the right of the Home screen offering a Connect Now option. Simply highlight and select the Connect Now option to get started.
- Use the Connect and activate now option in the Settings menu. From the Home screen menu, select Settings, then Network, and then Connect and activate now.
- If you want to start over from the beginning, use the Settings menu to do a Factory reset, and then go through Guided Setup again. This time, choose your home network when prompted.

## Setting up Antenna TV

- In addition to the other entertainment possibilities of your Roku TV, you may also want to watch broadcast channels from an antenna or cable TV service connected to the ANT input. On your Roku TV, you watch broadcast TV in much the same way you watch other entertainment choices. You select a tile—in this case, the Antenna TV tile—from the Home screen.

- The first time you select the Antenna TV tile, you have to set up the TV tuner. Setting up the TV tuner scans for active channels and adds them to your Antenna TV channel list.



### Why do I have to set up the TV tuner?

- Not everyone needs to use the TV tuner. For example, you might have a set top box provided by a cable or satellite company that receives all of your channels. Most of these set top boxes use an HDMI® connection.
- More and more people are watching only streaming TV and do not have a TV antenna or cable/satellite service. If you don't need the TV tuner, you can bypass setting it up and instead remove it from the Home screen as explained in Remove unwanted tiles.
- When you set up Antenna TV, the TV scans the signals on its antenna input for channels with a good signal, and adds those to the channel list, skipping dead channels and channels with a very weak signal.
- The TV lets you add two analog channels, even if they have no signal, for the purpose of using an older set top box, VCR, or game console that can only output a signal on analog channel 3 or 4. Typically, you'll only need one of these channels, but both are provided to make setup simpler. You can hide the one you don't want as explained in Edit Antenna TV channel lineup.

### How do I set up the TV tuner?

1. Make sure your antenna (not provided) or TV cable is connected to the TV's ANT/ CABLE input.
2. On the Home screen, select the Antenna TV tile.
3. Read the simple on-screen instructions, and then select Start finding channels.

\* to see options for picture and sound settings.

• Only on models that have a Roku voice remote, using English language, hold down  or , and then say the name of a movie, TV show, or actor, or, only in the United States, the genre or name of the director. The TV displays the result and the streaming channels that offer the requested content. Only in the United States, the results also include shows on Antenna TV channels.

**Note:** If you do not have a Roku voice remote, you can use the Roku mobile app to search. For more information, see Getting and using the Roku mobile app.

## Using your TV

This section provides information on using the day-to-day features of your TV.

## Status indicator

Your TV has a single status indicator. It goes on and off and blinks in different ways depending on the status of the TV, as shown in the following table:

TV CONDITION	STATUS INDICATOR	MEANING
On (screen is active)	Off	Screen is communicating that TV is on.
Screensaver (screen is active)	Off	Screen is communicating that TV is on.
Off (no power)	Off	TV is not connected to power.
Off (standby)	On	TV is connected to power and is ready to use.
Starting up from off state	Slow pulsing blink until startup completes	TV is doing something.
On (receiving update from USB)	Slow pulsing blink until update completes	TV is doing something.
Remote command received	Dims on/off once	TV has received your command.
Network connection lost	Two short blinks, pause, repeat	TV was connected and paired with a Roku account and now has no network connection.
Powering down to standby mode	Slow pulsing blink until the TV reaches standby	TV is doing something.

## Standby mode energy savings

When you turn off your TV, it remains in a higher power mode for a few minutes, after which it goes into a very low power standby mode. If you turn on the TV again before it has entered the very low power mode, it turns on immediately. After the TV goes into the lower power standby mode, it takes a few seconds longer to start up.

Only in connected mode on TVs that do not have an Energy Star® rating, you can optionally enable Fast TV start. When this option is enabled, your TV starts up almost immediately regardless of how long it has been turned off, but uses somewhat more power in standby mode. For more information, see Fast TV start.

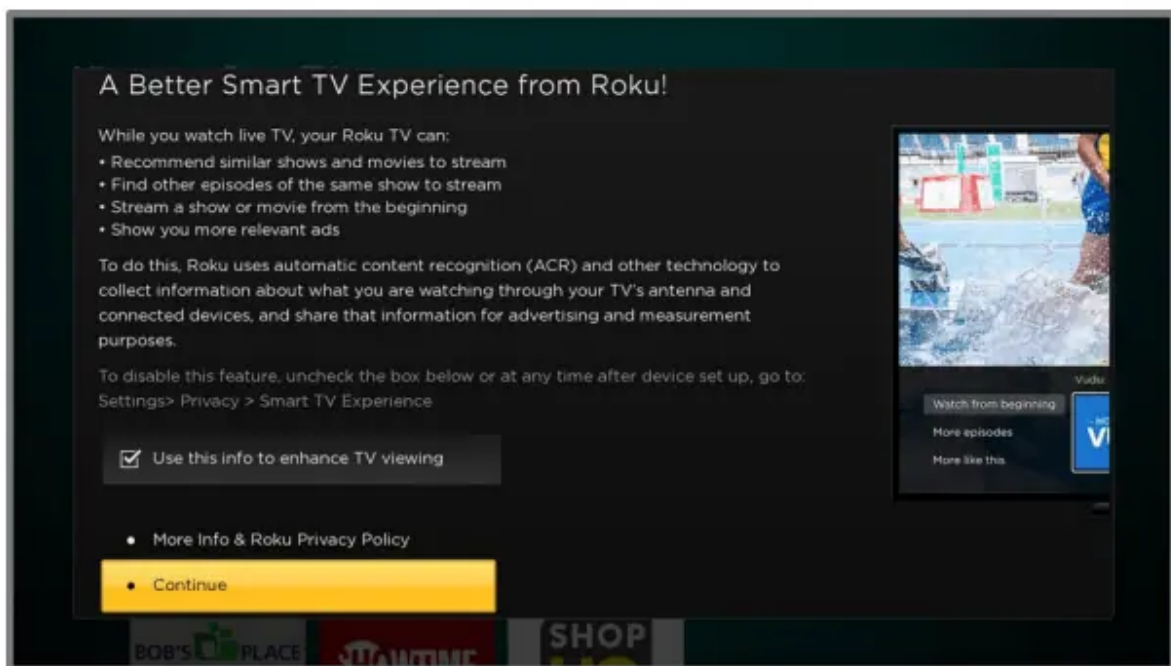
## Getting help

The Roku Tips & Tricks channel has helpful videos about many aspects of using your TV. You can access the channel in two ways:

- Select the Roku Tips & Tricks channel on the Home screen.
- Navigate from the Home screen to Settings > Help and select Launch Roku Tips & Tricks.

## Opting in to Smart TV experience (U.S. only)

Only in connected mode in the United States, the first time you select Antenna TV, an HDMI input, or AV input, your TV offers to enable the Smart TV experience. If you decide to enable it at this time, you're all set to enjoy its recommendations and features.



The Smart TV experience uses automatic content recognition (ACR) and other technology to collect information about what you watch through your Antenna TV, and on devices like media players and cable boxes connected to the HDMI or AV inputs. Opting in means that you give permission to analyze the programs you watch for the purpose of making recommendations, as well showing ads that are more relevant to you.

If you decide not to enable the Smart TV experience at this first opportunity, you can enable it later. Or, if you decide you'd rather not use the feature, you can disable it, but be aware that previously collected information is retained and not deleted.

## Disable Smart TV experience

If you decide you want to disable Smart TV experience, follow these steps:

1. From the Home screen, go to Settings > Privacy > Smart TV experience.
2. Navigate to the right to highlight Use info from TV inputs.
3. Press OK on the remote to clear the check box.

## Disable Auto Notifications

If you want to keep the Smart TV experience enabled, but you do not want to see notifications while you are watching shows, you can disable notifications. To do so, follow these steps:



1. From the Home screen, go to Settings > Privacy > Smart TV experience.
2. Navigate to the right to highlight Use info from TV inputs.
3. Press DOWN on the remote to highlight Enable auto notifications.
4. Press OK on the remote to clear the check box.


**Note:** These settings do not affect recommendations for More Ways to Watch that you see in the Smart Guide when watching Antenna TV channels. Those recommendations come from the Smart Guide and do not rely on ACR technology

## Watching Antenna TV channels

Select the Antenna TV tile in the Home screen. Your TV remembers the last channel you watched and starts with that channel playing.

## Changing channels

- To change channels, you can do any of the following:
  - Press the UP arrow to change to the next higher channel.
  - Press the DOWN arrow to change to the next lower channel.
  - Press the LEFT arrow to display the channel list (in non-connected mode) or Smart Guide (in connected mode), and then press the arrow keys to select the channel or show you want to watch. Press REWIND and FAST FORWARD to or show you want to watch, press OK channels, press the BACK button).
- Only if Live TV Pause is not enabled, press  to jump to the previous channel. Press again to return to the channel you were watching before you pressed .

**Note:** If the  button is not available on your remote, you can use this feature in the Roku mobile app. For more information, see Getting and using the Roku mobile app.

## Adjusting TV settings

You can adjust most picture and sound settings while you are watching a program by pressing **\*** to open the Options menu. There are some additional picture and sound settings in the Settings menu.

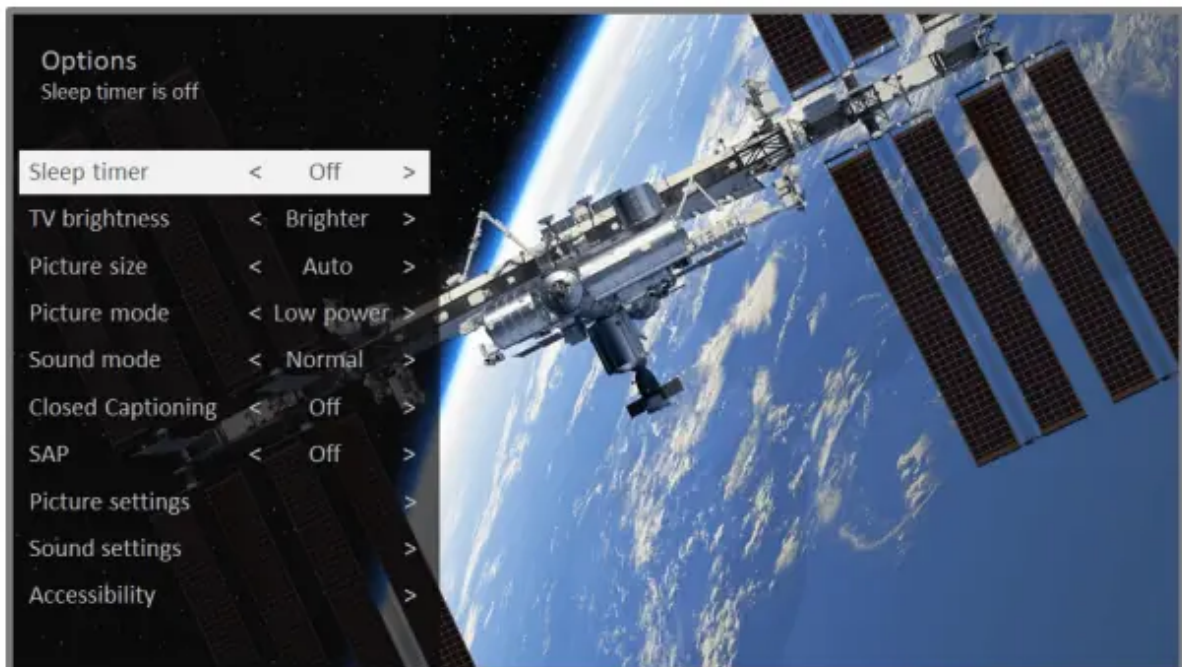
In most cases, the changes you make apply only to the input you are using. Antenna TV, the separate HDMI® inputs, and the AV input each have their own settings that the TV remembers when you return to that input. The TV also separately remembers the settings you specify while viewing streaming content.

### Settings menu

Use the Settings menu to adjust overall TV settings. Press **\***.

### Options menu

- The Options menu for each TV input provides many settings for controlling the appearance of the picture and the quality of the audio. To view the Options menu, press **\*** whenever you are watching a TV input or streaming a video (except when you are viewing the program information banner). The Options menu is a panel that appears over the left side of the screen:



### Typical Options menu

To adjust the settings on the Options menu, press the UP or DOWN arrow to highlight a setting, and then press the LEFT or RIGHT arrow to change the setting. You'll see the changes you make right away in picture appearance or audio quality.

**Tip:** When you highlight a setting, the header text explains the effect of its current value. When you begin to adjust a setting, the other options are hidden so you can see more of the screen. Even though the other settings are hidden, you can move the highlight up or down to adjust the other settings. As soon as you press the UP or DOWN arrow, the other settings become visible again.

**Note:** Some streaming channels assign the \* button to a different function, meaning it will not open the Options menu. In these cases, use a different channel, such as The Roku Channel, to configure options. The selected settings remain active for all streaming channels

## Options menu settings

- **Sleep timer** – Sets a timer that turns off the TV after the specific amount of time. This setting remains in effect even if you stop watching the current input.
- **TV brightness** – Affects the overall brightness of the picture. This setting applies across the entire TV; that is, to all TV inputs and is identical to the TV brightness setting under Settings > TV picture settings.
- **Picture size** – Adjusts the aspect ratio of the picture, enabling you to view a picture in its original format, or zoom or stretch it to fill the screen. The Auto setting has been found to produce the best picture in most cases.
- **Picture mode** – Provides picture presets for various viewing preferences. This setting applies to the currently-selected input only.
- **Sound mode** – Adjusts the sound quality output from the TV speakers. This setting applies across the entire TV; that is, to all TV inputs. It does not affect the sound quality for headphones, HDMI (ARC), or SPDIF (TOSLINK) connectors.
- **Closed captioning** – Controls when you see captions. This setting is only offered for Antenna TV, the AV input, and streaming/media player videos. Any set value remains in effect across only these inputs.
  - **Antenna TV** – Set captions to off, always on, on only when the TV sound is muted, or on only during instant replay (when Live TV Pause has been enabled).
  - **AV input** – Set captions to off, always on, or on only when the TV sound is muted.
  - **Streaming video channel or media player** – For streaming content that provides closed captions, set captions to off, always on, on only when the TV sound is muted, or on only during instant replay (for streaming content that supports instant replay). Note that some streaming channels have other methods for turning captions on and off. In these cases, the Closed captioning option does not appear on the Options menu.

**Note:** If the \* again to dismiss the menu immediately.

**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.

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