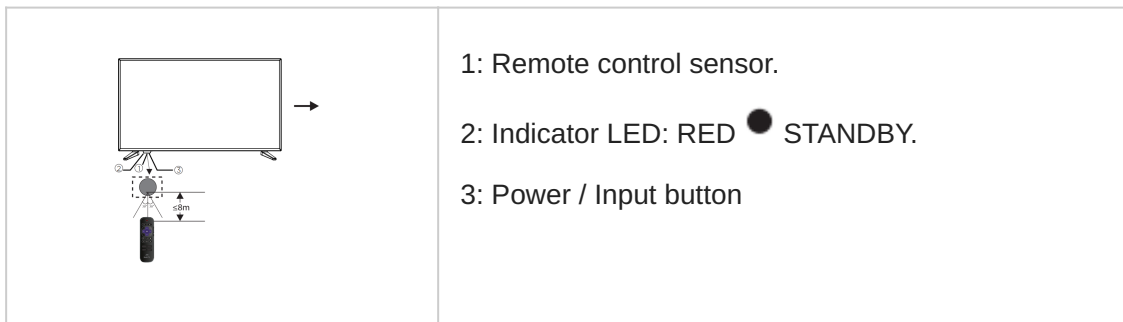


## Front panel



## Rear Connections



**All the terminals are(from left to right):** RESET, HEADPHONE OUTPUT, HDMI1, HDMI2, HDMI3(ARC), RF, OPTICAL OUTPUT, USB.

## SIDE Connections



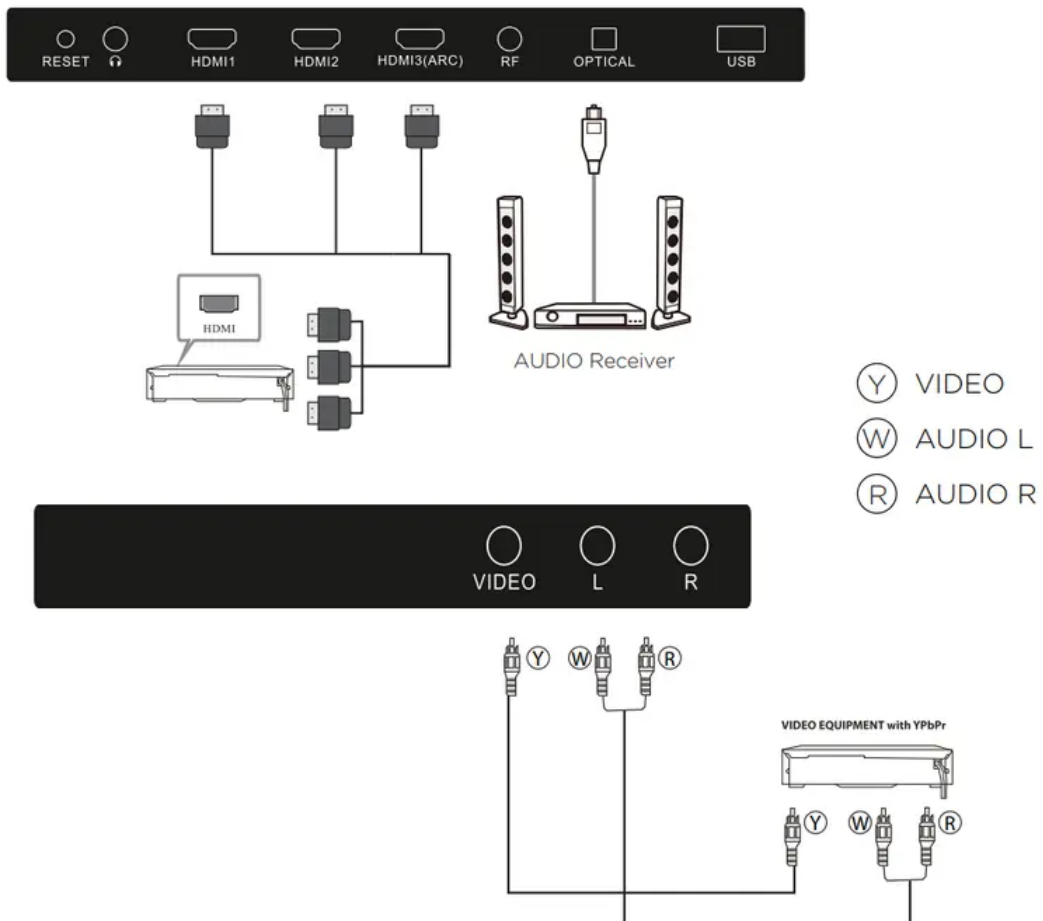
**All the terminals are(from left to right):** VIDEO INPUT, AUDIO INPUT.

## External Connection

### AV Equipment

You can use the rear input terminals as follows.

Video Equipment: VCR, Multi Disc Player, DVD Player, Camcorder, Video Game, etc.

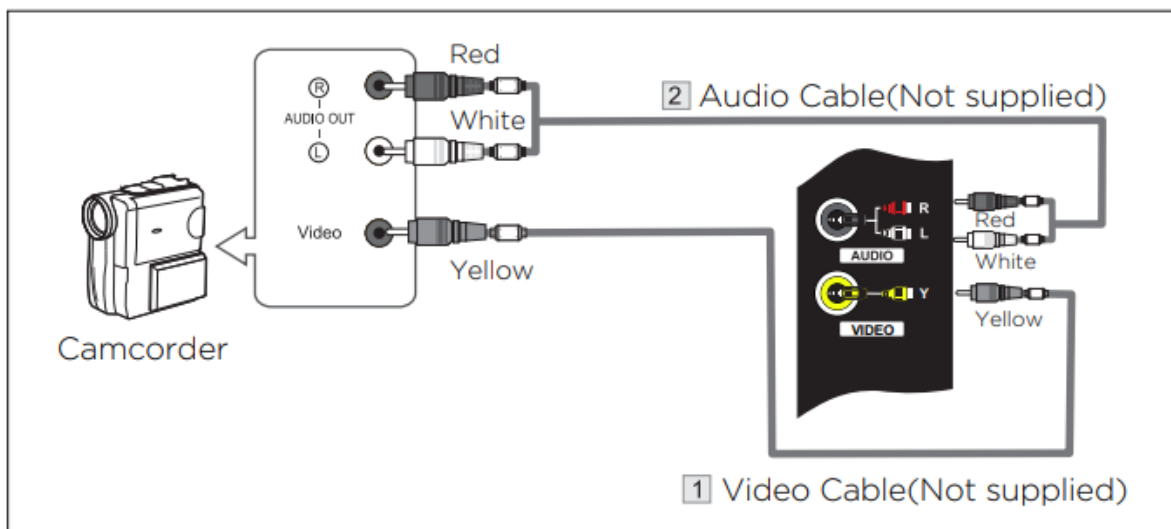


## External Connection

### Connecting a Camcorder

The rear panel jacks on your TV make it easy to connect a camcorder to your TV. They allow you to view the camcorder tapes without using a VCR.

Each Camcorder has a different back panel configuration. When connecting a Camcorder or DVD, match the color of the connection terminal to the cable.



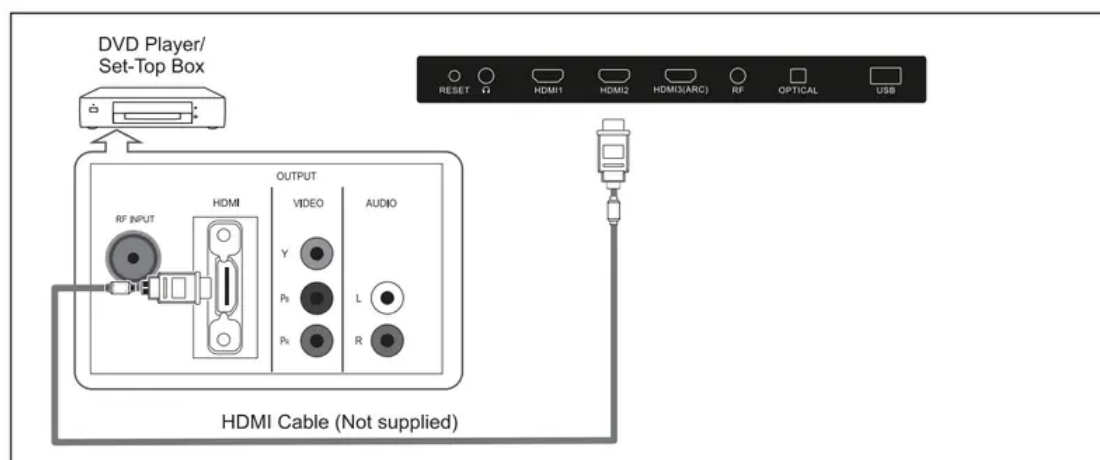
1. Connect a Video Cable between the AV VIDEO in jacks on the TV and the Video out jack on the camcorder.
2. Connect Audio Cables between the AUDIO L and AUDIO R jacks on the TV and the AUDIO out jacks on the camcorder.
3. Connect a Video Cable between the AV VIDEO in jacks on the TV and the Video out jack on the DVD.

#### Notes:

1. Whenever you connect an external device to your TV, make sure that power on the unit is turned off
2. When connecting an external device, match the color of the connection terminal to the cable.

#### Connecting Digital Audio System

This connection can only be made if there is a HDMI Output connector on the external device.



#### What is HDMI?

HDMI, or high-definition multimedia interface, is a next-generation interface that enables the transmission of digital audio and video signals using a single cable without compression.

Multimedia interface is a more accurate name for it especially because it allows multiple channels of digital audio.

The difference between HDMI and DVI is that the HDMI device is smaller in size, has the HDCP(High Bandwidth Digital Copy Protection) coding feature installed, and supports multi-channel digital audio.

Each DVD player/STB has a different back panel configuration.

Connect an HDMI Cable between the HDMI1, HDMI2, HDMI3 connector on the TV and the HDMI connector on the DVD player/Set-Top Box

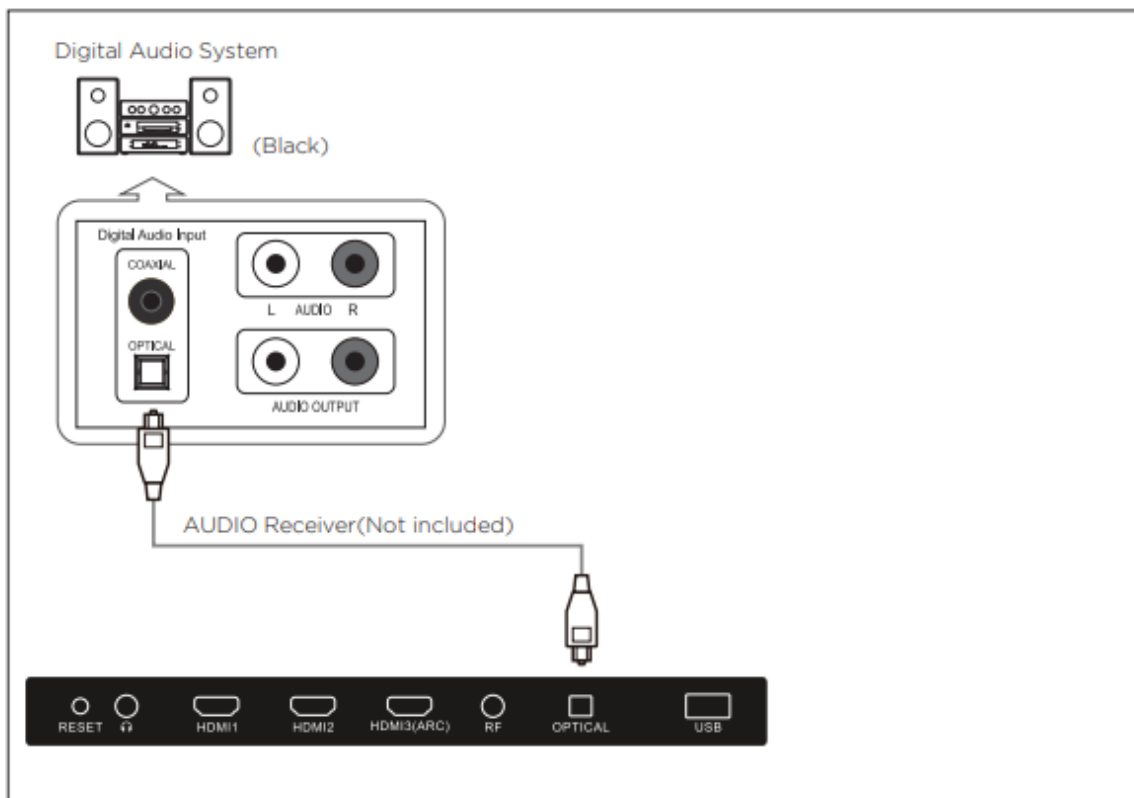
**Notes:**

1. Whenever you connect an external device to your TV, make sure that power on the unit is turned off
2. When connecting an external device, match the color of the connection terminal to the cable

### External Connection

#### Connecting PC

The rear panel jacks on your TV make it easy to connect a Digital Audio System to your TV



CH audio is possible when the TV is connected to an external device supporting 5.1 CH

Connect an OPTICAL Cable between the OPTICAL jacks on the TV and the Digital Audio Input jacks on the Digital Audio System. When a Digital Audio System is connected to the OPTICAL terminal: Decrease the gain (volume) of the tv, and adjust the volume level with the Digital Audio System's volume control.

### Supporting Signals

Input	Mode
Digital	ATSC
Analog	PAL-M/PAL-N/NTSC M
CVBS	PAL/NTSC

Input	Resolution	Vertical Frequency
HDMI	720p	50Hz/60Hz
	1080i	50Hz/60Hz
	1080p	50Hz/60Hz

### 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.







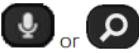




## Roku TV remote

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.

- 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>LEFT/RIGHT/UP/DOWN moves the highlight in the corresponding direction.</li> <li>OK selects the highlighted option.</li> </ul> <p>While watching TV:</p> <ul style="list-style-type: none"> <li>UP/DOWN changes channel.</li> <li>LEFT displays the Smart Guide (connected mode) or channel list (non-connected mode).</li> <li>LEFT/RIGHT <i>only on TVs operating in non-connected mode</i>, while in the channel list switches between All Channels and FAVORITE CHANNELS.</li> <li>OK 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 in the United States on select models with Roku voice remotes.</i> Hold and say the name of a movie, TV show, actor, or director to search across many streaming and Antenna TV channels. Say a command to start streaming, change a channel, and more. For more information, go to:</p> <p><a href="https://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 Not available at this time. Subsequent presses toggle Game mode. When On, 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>
	INSTANT REPLAY	<p><i>Select models.</i> Streaming programs that support this feature and Antenna TV channels: if Live TV Pause is enabled, jumps back a few seconds with each press and resumes playing.</p> <p>Broadcast TV: If Live TV Pause is disabled, jumps to previous channel.</p> <p>When using an on-screen keyboard: Backspaces in the text you are entering.</p> <p>Smart Guide: Returns to the current day and time.</p>
	SLEEP	<p><i>Select models.</i> Displays a banner showing the remaining sleep time, if any, or Sleep timer is off. Subsequent presses cycle among the preset sleep time intervals. Once set, the sleep timer remains in effect regardless of what you are watching.</p>
	MEDIA PLAYBACK CONTROLS	Rewind, pause, play, and fast forward streaming content and Antenna TV channels (if Live TV Pause is enabled)

## 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.

1. Only on models that have a Roku voice remote: A few moments after the Let's get started screen appears, Guided Setup starts the pairing process for the voice remote. (You'll know if you have this type of remote because it will have microphone or search button just below the down arrow on the purple pad.) If the voice remote does not pair automatically, follow the instructions on the screen to complete the pairing process.  
**Tip:** On TVs sold in the United States, if you are blind or visually impaired, you can activate Audio Guide, a text-to-speech screen reader to help you navigate the TV's menus and commands. To enable the Audio Guide, press the **\*** 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.

2. Press the DOWN arrow on the remote to highlight your preferred language, and then press OK or the RIGHT arrow.
3. 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.
4. Press OK or the RIGHT arrow on the remote to go to the next screen:
5. Press OK to select Set up for home use. This is the right choice for enjoying your TV at home. It provides energy saving options as well as access to all features of the TV.

**Note:** Store mode configures the TV for retail display and is not recommended for any other use. In store mode, some features of the TV are missing or limited. To switch from one mode to the other, you have to perform a factory reset as explained in Factory reset everything, and then repeat Guided Setup.

### **Network connection:**

After you select Set up for home use, the TV prompts you to make a network connection. If your TV has both wired and wireless connections, you'll see the following screen.

6. Only models that display the Connect to the Internet screen: Make a selection:
  - Wireless connection – Highlight Set up new wireless connection and press OK. The TV prompts you through wireless setup. Skip ahead to the next step for help with the process.
  - Wired connection – Highlight Connect to wired network and press OK. The TV immediately attempts to connect to your wired network, your local network, and then the Internet. Go to Step 9 to continue with Guided Setup.
  - Connect to the Internet later – If you don't want to connect to the Internet right now, you can skip this step and use the TV to watch Antenna TV channels, play games, and watch DVDs. When you're ready to connect, it's easy. We'll show you how in Benefits of connecting.

**Note:** If you decide not to connect, Guided Setup skips ahead to setting up the devices that you've connected to your TV. Jump ahead to Connect your devices to complete Guided Setup

7. On models that have wireless only, or models with both wired and wireless and you've selected Wireless: The TV scans for the wireless networks within range and displays them in order, with the strongest signals first. In addition to your own wireless signal, the TV might pick up signals from your neighbors.

Press the UP or DOWN arrows to highlight the name of your wireless network, and then press OK to select it.

**Note:** Some networks, such as those often found in dorm rooms, hotels, and other public places, require you to read and agree to terms, enter a code, or provide identifying information before letting you connect to the Internet. If your Roku TV detects that you are connecting to such a network, it prompts you through the connection process using your compatible smartphone or tablet to provide the needed information. For more information, see Using your TV in a hotel or dorm room.

## Other options

- Connect to the Internet later – If you don't want to connect to the Internet right now, you can skip this step and use the TV to watch Antenna TV channels, play games, and watch DVDs. When you're ready to connect, it's easy. We'll show you how in Benefits of connecting. Note: If you decide not to connect, Guided Setup skips ahead to setting up the devices that you've connected to your TV. Jump ahead to Connect your devices to continue.
- **Scan again / Scan again to see all networks:** The name of this option depends on the number of wireless networks within range.
  - Scan again appears if the list already shows all available wireless networks within range. If you don't see your wireless network name in the list, you might need to adjust the location of your wireless router or the TV, turn on your router, or make other changes. When everything is ready, select Scan again to see if your network name now appears in the list.
  - Scan again to see all networks appears if there are more wireless networks than the strongest ones it initially listed. If you don't see your wireless network name in the list, this option displays the complete list. If you still don't see your network name, you might have your router configured to provide wireless service as a "private network."  
**Note:** Highlighting either of these options displays an informational panel with the unique media access control (MAC) address of your Roku TV. You will need the MAC address if your wireless router is configured to use MAC address filtering
- Private network – If your wireless network name is hidden, it won't appear in the list. Select Private network to display an on-screen keyboard and use it to enter your network name. Unless you changed the factory-set network name, you can find the name (also called SSID) on a label on the router.  
**Tip:** Wireless networks that are password-protected display a "padlock" icon adjacent to the name. This icon enables you to know that you are going to be prompted to enter a password after you select that network.

8. Only if you select a password protected wireless network: An on-screen keyboard appears. Use the keyboard to enter the network password.

After you submit your wireless network password, the TV displays progress messages as it connects to your wireless network, your local network, and the Internet.

9. Only if your TV cannot get the correct time zone and current time from your network service provider: Use the UP and DOWN arrows to highlight your time zone, and then press OK.

**Tip:** Your TV needs to know the local time zone so that it can correctly display information about the program you are currently watching. If the TV is unable to automatically determine the local time zone, it prompts you to choose your time zone from a list.

- As soon as the TV is able to connect to the Internet, it downloads and installs its first software update, and then restarts.

**Tip:** Your TV automatically checks for updates periodically. These updates provide new features and improve your overall experience with the TV. After an update, you might notice that some Options have moved, and that there are new options or features. This User Guide describes version 9.1. To determine your current Roku TV software version, go to Settings > System > About after you complete Guided Setup. You can download an updated User Guide that matches your Roku TV software version from the Roku TV web site.

## **Activation**

After the TV restarts, it displays the Activation screen:

10. Using a compatible computer, tablet, or smartphone with an Internet connection, go to the web address displayed on the screen and enter the code that appears on your screen.

## **Why do I need a Roku account?**

You need a Roku account for several reasons:

- It links you, your Roku TV, and your other Roku streaming devices to the Roku Channel Store and billing service.
- Streaming content providers know that it's OK to send content you request to your Roku TV.
- Roku can automatically send updates to your device.

You need a Roku account to activate your device and access entertainment across thousands of streaming channels. Linking to a Roku account also activates several advanced features on your TV, such as Guest Mode, the Roku Mobile App, and Live TV Pause, to name just a few. Roku accounts are free, and while a valid credit card number is not required to create your account, providing your credit card information makes renting and purchasing entertainment from the Roku Channel Store fast and convenient.

After you log in or create your Roku account, the link page suggests that you select some streaming channels. After you confirm your selections, the TV gets an acknowledgement, and then adds your preexisting and newly-selected streaming channels to your Roku TV. This process is

automatic and takes a few moments—a little longer if you already have a lot of streaming channels to add.

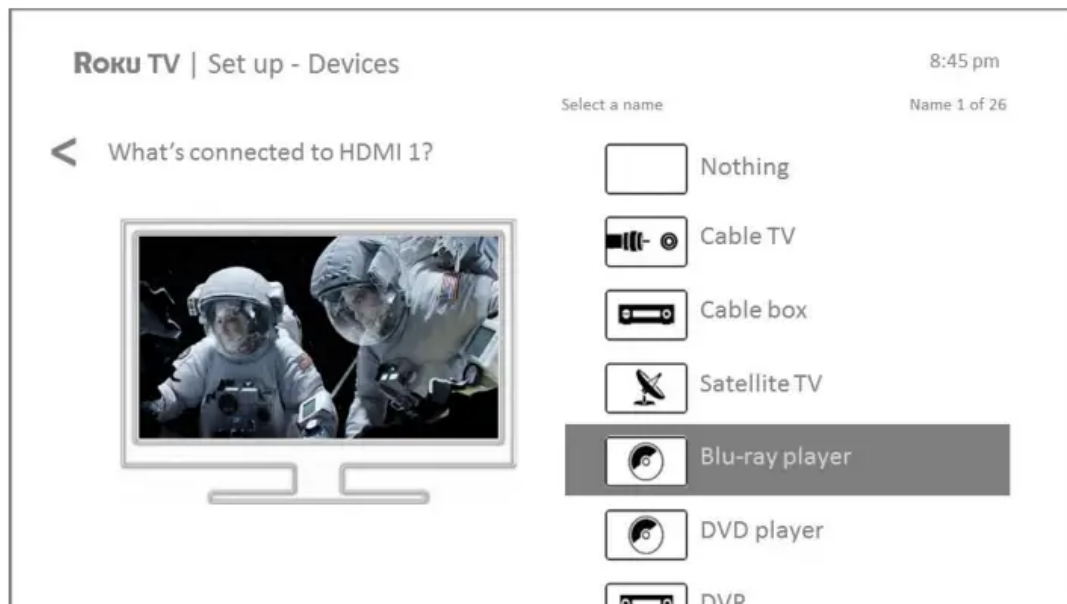
**Tip:** Streaming channels from all Roku streaming devices associated with your account are synchronized periodically, so that all of your Roku streaming devices have the same set of streaming channels (subject to compatibility with the device).

### Connect your devices

Next, Guided Setup helps you set up the external devices that you want to use with it, such as a cable box, Blu-ray™ player, or game console.

11. Press OK or the RIGHT arrow to proceed:

12. Connect all the devices you plan to use with your TV, turn them all on, and then select Everything is plugged in and turned on. The TV now takes you step by step through each of its inputs and asks what kind of device you have connected. On each input that has a connected and active device, you can see its picture and hear its sound.



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

**Note:** Some Roku TVs, depending on where you live and other factors, show you an introductory video filled with some great hints and tips. If you're not interested in viewing this video, press on the remote to return to the Roku TV Home screen.

Whenever you press on the remote, the Home screen greets you.

From here, you can explore everything your TV has to offer. Press the arrow keys to move around, and press OK to select a highlighted item. We've designed the TV to encourage you to explore, and you can probably figure out most of the capabilities and settings on your own. If you have any questions or difficulties, you can find answers and solutions in this guide

## **Benefits of connecting**

### **Connecting brings out your TV's full potential!**

#### **Make any night a movie night**

Thousands of movies to choose from, across all major streaming movie channels like Netflix, Crackle, and more<sup>1</sup>. You'll never run out of something new to watch.

#### **Get in the groove**

Stream endless hours of music from free and subscription-based channels like Deezer and TuneIn. With almost instant access to thousands of music artists, your favorite beats are just as close as your remote.

#### **Explore your passions**

In addition to popular streaming channels like YouTube, NHL, Sky News and Google Play, your Roku TV also offers hundreds of streaming channels to fuel your passions including fitness, cooking, religion, outdoors, International programming and much more.

#### **Enjoy FREE trials of popular channels**

Your Roku TV comes loaded with special offers, including free trials (if eligible) from popular streaming channels like Netflix, Hopster, Acorn TV, and many more. REMEMBER THAT YOU MUST CANCEL BEFORE THE FREE TRIAL ENDS TO AVOID SUBSCRIPTION FEES.

#### **Take advantage of awesome features:**

Powerful, voice-enabled search helps you find movies and TV shows, actors, or directors across multiple streaming channels. Search results also includes Antenna TV programs airing in your region as well. Voice Search and Antenna TV search results are available only in the United States

Smart Guide, only in the United States, is an electronic program guide that is available any time you are watching "over-the-air" TV programs on the Antenna TV input. You can scroll up and down to see all Antenna TV channels you receive. You can scroll left to see the previous

7 days programs, and scroll right to see the upcoming 14 days of programs. If you highlight a show that has a purple asterisk (\*), 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.

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 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. Voice commands are available only in the United States.

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.
4. If prompted, select your time zone. You'll only need to do this if the TV can't figure out your time zone from your Internet connection.

## Why does the TV need my time zone?

The TV needs to know your time zone so that it can correctly display time information about the program you are currently watching.

5. When prompted, select whether to add analog channels 3 and 4. These channels enable you to connect older set top boxes, VCRs, or game consoles
6. Wait while your TV scans for Antenna TV stations...  
... and then cable TV channels.

Scanning for channels can take several minutes.

**Tip:** If you use a set-top box to receive cable TV channels (and don't have your cable connected directly to the TV's ANT input), you can save time by skipping the cable TV portion of the channel scan.


7. When the channel scans finish, the TV shows the number of channels it added.



8. Only in connected mode, you have the option of setting up Live TV Pause. The topic Pausing Live TV explains how to set up and use this feature. If you don't want to set up Live TV Pause, or if this option is not available to you, select Done to start watching Live TV.

**Tip:** Repeat the channel scan from time to time to make sure you are receiving all of the latest channels. Broadcasters add and remove channels, move channels to different parts of the spectrum, and change the power levels of their channels periodically. Your antenna reception and picture quality depend on the position of your antenna and on your location relative to the antennas of broadcasters in your area.

**Note:** You'll have to repeat the channel scan if you remove and re-add the Antenna TV tile from the Home screen or perform a factory reset. To repeat the channel scan, go to Settings > TV inputs > Antenna TV > Scan again for channels > Start finding channels.

Now, you're ready to watch Antenna TV! While you're watching, try the following tips:

- Press the UP and DOWN arrows to change channels.
- Press the LEFT arrow to display the channel list (non-connected mode) or Smart Guide (connected mode), and then use the UP and DOWN arrows to select a channel to watch. Or press REWIND or FAST FORWARD to jump through the channel list or Smart Guide a page at a time.
- Press OK to display information about the current program.
- Press  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.

### **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 to go to the Home screen, and then navigate to Settings > TV picture settings.

You can adjust the following overall TV picture settings from the Settings screen:

- TV brightness – Provide a better viewing experience in darker or brighter rooms. Increases or decreases the TV's general brightness across all TV inputs.  
**Note:** This setting is identical to the TV brightness setting you can access in the Options menu while watching a program.
- HDR notification – On select models only: Controls whether the TV displays a notification in the upper right corner of the screen for a few seconds when HDR or Dolby Vision content begins to play.
  - On – The TV displays a notification when HDR or Dolby Vision content begins to play.

- Off – The TV does not display a notification when HDR or Dolby Vision content begins to play.

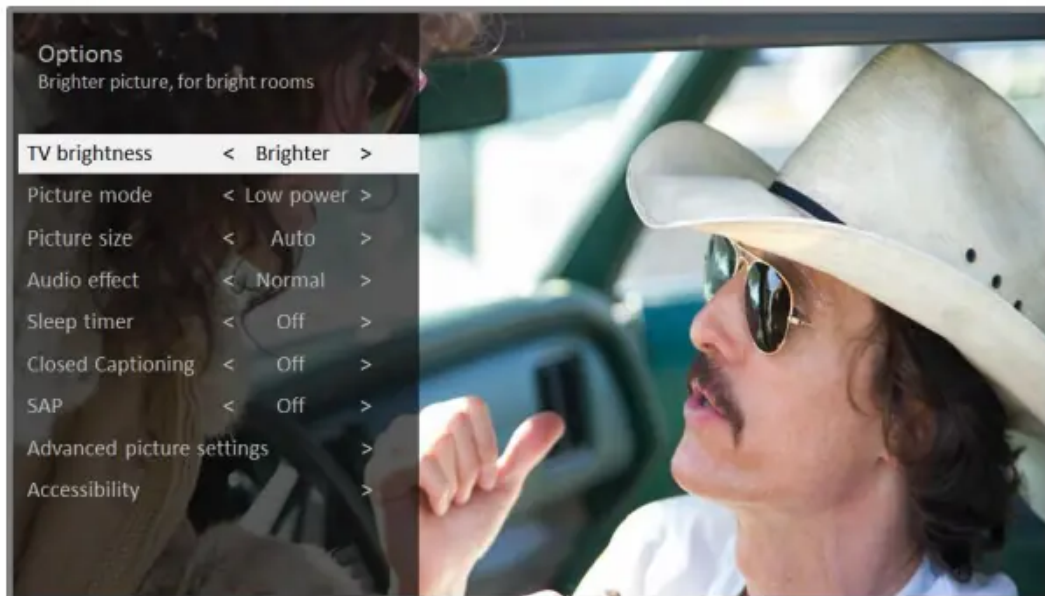
**Note:** This setting does not affect the HDR or Dolby Vision notification that always appears in the program information banner. Press OK while watching a show to open the program information banner.

- Settings per input – Lists each TV input. Select an input, and then press \* to display the Options menu where you can adjust the input's settings while watching a live picture and listening to the sound from that input.

**Tip:** You don't have to go to the Settings menu first—you can display an input's Options menu and adjust its settings whenever you are watching the input by pressing \*.

## 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.

## Options menu settings

- 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 mode – Provides picture presets for various viewing preferences. This setting applies to the currently-selected input only.
- 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.
- Audio effect - 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
- 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.
- 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 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.
- Captioning track – Only in Canada: Selects which caption track to display when closed captioning is on. This setting remains in effect on all inputs that provide captions.  
**Note:** Only in the United States, the Captioning track setting is located under Accessibility.

- SAP – Selects whether to play a secondary audio program or multichannel television sound, and which choice to play. This setting applies only to Antenna TV on digital channels.
- Advanced sound settings – Only on select models: Shows the Advanced sound settings menu.
- Advanced picture settings – Shows the Advanced picture settings menu.

**Tip:** To dismiss the Options menu, just wait a few seconds without pressing any buttons. Or press **\*** 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.