Owner's manual
Manual del propietario
Manuel du propriétaire

MAGNAVOX • Roku TV

50MV349R
43MV349R
32MV319R

Thank you for choosing Magnavox.

Need help fast?

Read your Owner's manual first for quick tips that make using your Magnavox product more enjoyable. If you have read your instructions and still need assistance, you may access our online help at ***www.magnavox.com/support/*** *or call* ***1 866 341 3738*** *while with your product (and Model / Serial number)*

Gracias por escoger Magnavox.

Necesita ayuda inmediata?

Lea primero el manual del propietario, en donde encontrará consejos que le ayudarán a disfrutar plenamente de su producto Magnavox. Si después de leerlo aún necesita ayuda, consulte nuestro servicio de asistencia en línea en ***www.magnavox.com/support/*** *o llame al teléfono* ***1 866 341 3738*** *y tenga a mano el producto (y número de model / serial)*

Magnavox vous remercie de votre confiance.

Besoin d'une aide rapide?

Manuel du propriétaire regorgent d'astuces destinées à simplifier l'utilisation de votre produit Magnavox. Toutefois, si vous ne parvenez pas à résoudre votre problème, vous pouvez accéder à notre aide en ligne à l'adresse ***www.magnavox.com/support/*** *ou formez le* ***1 866 341 3738*** *Veillez à avoir votre produit à portée de main (et model / serial nombre)*

Contents

1 Notice 6

2 Welcome 9

The new standard in Smart TVs 9
Get the most out of your new TV 9

3 Connections and setup 11

Connecting an antenna, cable, or satellite box 11
Connecting external equipment with a composite AV video cable 11
Connecting external equipment with an HDMI® cable 11
Connecting headphones or analog sound bar to the TV 11
Connecting headphones to the Roku Enhanced Voice Remote 11
Connecting an AV receiver or digital sound bar 11
Preparing for Internet connectivity 12
AC power 12
Roku remote batteries 12
Roku TV Remote 13
Panel buttons 14
Single button 14
Three buttons 14
Game-pad style joystick 15
Four buttons 15
Five buttons (with mute) 15
Five buttons (without mute) 15
Seven buttons 15

4 Guided Setup 16

Starting Guided Setup 16
Completing Guided Setup 16
Network connection 17
Activation 18
Connect your devices 19
Home screen 19
Personalize your Home screen 20

5 Benefits of connecting 21

Connecting brings out your TV's full potential! 21
What is streaming? 22
What if I didn't connect my TV? 22

6 Setting up Antenna TV 23

Why do I have to set up the TV tuner? 23
How do I set up the TV tuner? 23

7 Using your TV 25

Status indicator 25
Standby mode energy savings 25
Opting in to Smart TV experience (U.S. only) 25
Disable Smart TV experience 25
Disable Auto Notifications 26
Watching Antenna TV channels 26
Changing channels 26
Favorite Channels in non-connected mode 26
Smart Guide (U.S. only) 27
Navigating the Smart Guide 28
Favorite channels in the Smart Guide 28
Turn off favorite channels 28
Viewing program information 28
Adjusting settings while watching a show 29
Pausing Live TV 29
Requirements 29
Enabling Live TV Pause 29
Using Live TV Pause 29
Notes about Live TV Pause 30
More Ways to Watch (U.S. only) 30
Using More Ways to Watch 30
Getting the most from More Ways to Watch 31
Switching TV inputs 32
Auto-detecting devices 32
Adjusting audio/video settings 32
Playing content from USB storage devices 32
Auto player launch 32
Playing content from local network media servers 32
Using your TV in a hotel or dorm room 33
About using your TV on a restricted public network 33
Roku voice remotes (select models only) 34
Re-pairing your Roku voice remote 34
Checking the Roku voice remote battery level 34
Finding your Roku Enhanced Voice Remote 34
Changing and previewing the Enhanced Voice Remote finder sound 34

8 Adjusting TV settings 35

Settings menu 35
Options menu 35
Options menu settings 35
Accessibility (U.S. only) 36
Accessibility menu settings 36
Video description through Secondary Audio Program (SAP) 36
Advanced audio settings – DTS TruSurround (select models only) 37
Advanced audio settings menu options – DTS TruSurround 37
Advanced audio settings – Sonic Emotion Premium (select models only) 37
Advanced audio settings menu options – Sonic Emotion Premium 37
Sonic Emotion settings 38
Advanced picture settings 38
Advanced picture settings menu options 38
Expert Picture Settings (4K models only) 39
Changing privacy settings 39
Advertising 39
Microphone 39

9 My Feed 41

Movies Coming Soon 41
Movies, TV shows, and people 41

10 Searching for something to watch 42

How do I search? 42
Keyboard search using the remote 42
Voice Search from a Roku voice remote 42
Searching from the Roku mobile app 42
I found a show, now what? 43
Follow on Roku 43
Recent Searches 43

11 Using the Roku Channel Store 44

12 Customizing your TV 45

Add TV inputs 45
Add streaming channels 45
Rename inputs 45
Remove unwanted tiles 45
Rearrange tiles 45
Change themes 46
Edit Antenna TV channel lineup 46
Change volume 47
Configure power settings 47
Power on settings 47
Auto power savings 47
Standby LED On/Off 47
Fast TV start 47
Configure accessibility (U.S. only) 48
Captions mode 48
Captions preferred language 48
Captions style 48
Changing caption settings (Canada only) 49
Configuring parental controls 49
Creating a parental control PIN 49
Blocking Featured Free or Movie Store and TV Store (U.S. only) 50
Blocking Broadcast TV shows 50
What happens when a TV show is blocked? 52
Changing the parental control PIN 52
Resetting parental controls 52

13 More settings 53

Changing network settings 53
Changing ZIP Code 53
Changing time settings 53
Scanning for Antenna TV channels again 54
Setting the HDMI® mode (4K models only) 54
Adjusting external device connections 54
Using Roku Wireless Speakers 54
Using the TV in a home theater 55
Turning off the TV speakers for home theater use 55
Setting up a digital audio connection 55
Pairing Bluetooth devices with Roku Wireless Speakers 55
Turning off the TV screen while listening to music 55
Controlling other devices through CEC 56
Restarting the TV 56
Resetting the TV 57
Reset audio/video settings 57
Factory reset everything 57
What if I can't access the Factory Reset option? 57
Network connection reset 57
Changing your Roku Channel Store PIN preference 57
Getting system updates 58
Checking for updates on a connected TV 58
Getting updates on a non-connected TV 58

14 Other devices 60

Screen Mirroring your phone or tablet 60
Getting and using the Roku mobile app 60
Private Listening on the Roku mobile app 60
Using a universal remote 60

15 FAQ 61

16 Warranty 65

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Registering your model with MAGNAVOX makes you eligible for all of the valuable benefits such as software upgrades and important product notifications.

Register online at ***www.magnavox.com/support/***

Know these ***safety*** *symbols*

The caution marking is located on the rear or bottom of the cabinet.

The lightning flash with arrowhead symbol, within an equilateral triangle, is intended to alert the user to the presence of uninsulated “dangerous voltage” within the apparatus’s enclosure that may be of sufficient magnitude to constitute a risk of electric shock to persons.

The exclamation point within an equilateral triangle is intended to alert the user to the presence of important operating and maintenance (servicing) instructions in the literature accompanying the apparatus.

WARNING: **To reduce the risk of fire or electric shock, do not expose this apparatus to rain or moisture. Apparatus shall not be exposed to dripping or splashing and no objects filled with liquids, such as vases, shall be placed on the apparatus.**

CAUTION: **To prevent electric shock, match wide blade of plug to wide slot, fully insert.**

MAGNAVOX *Visit our World Wide Web Site at www.magnavox.com/support/*

CHILD SAFETY:

PROPER TELEVISION PLACEMENT MATTERS

THE CONSUMER ELECTRONICS INDUSTRY CARES

- Manufacturers, retailers and the rest of the consumer electronics industry are committed to making home entertainment safe and enjoyable.
- As you enjoy your television, please note that all televisions – new and old- must be supported on proper stands or installed according to the manufacturer’s recommendations. Televisions that are inappropriately situated on dressers, bookcases, shelves, desks, speakers, chests, carts, etc., may fall over, resulting in injury.

TUNE IN TO SAFETY

- **ALWAYS** follow the manufacturer’s recommendations for the safe installation of your television.
- **ALWAYS** read and follow all instructions for proper use of your television.
- **NEVER** allow children to climb on or play on the television or the furniture on which the television is placed.
- **NEVER** place the television on furniture that can easily be used as steps, such as a chest of drawers.
- **ALWAYS** install the television where it cannot be pushed, pulled over or knocked down.
- **ALWAYS** route cords and cables connected to the television so that they cannot be tripped over, pulled or grabbed.

CTA.tech/safety Consumer Technology Association™

WALL OR CEILING MOUNT YOUR TELEVISION

- **ALWAYS** contact your retailer about professional installation if you have any doubts about your ability to safely mount your television.
- **ALWAYS** use a mount that has been recommended by the television manufacturer and has a safety certification by an independent laboratory (such as UL, CSA, ETL).
- **ALWAYS** follow all instructions supplied by the television and mount manufacturers.
- **ALWAYS** make sure that the wall or ceiling where you are mounting the television is appropriate. Some mounts are not designed to be mounted to walls and ceilings with steel studs or cinder block construction. If you are unsure, contact a professional installer.
- Televisions can be heavy. A minimum of two people is required for a wall or ceiling mount installation.

MOVING AN OLDER TELEVISION TO A NEW PLACE IN YOUR HOME

- Many new television buyers move their older CRT televisions into a secondary room after the purchase of a flat-panel television. Special care should be made in the placement of older CRT televisions.
- **ALWAYS** place your older CRT television on furniture that is sturdy and appropriate for its size and weight.
- **NEVER** place your older CRT television on a dresser where children may be tempted to use the drawers to climb.
- **ALWAYS** make sure your older CRT television does not hang over the edge of your furniture.

Important safety instructions

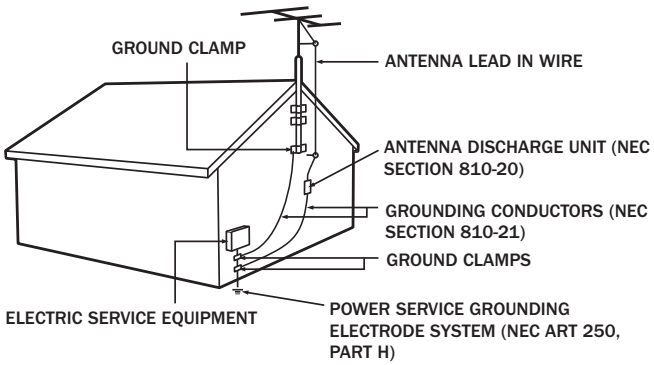
1. Read these instructions.
2. Keep these instructions.
3. Heed all warnings.
4. Follow all instructions.
5. Do not use this apparatus near water.
6. Clean only with dry cloth.
7. Do not block any ventilation openings. Install in accordance with the manufacturer's instructions.
8. Do not install near any heat sources such as radiators, heat registers, stoves, or other apparatus (including amplifiers) that produce heat.
9. Do not defeat the safety purpose of the polarized or grounding-type plug. A polarized plug has two blades with one wider than the other. A grounding type plug has two blades and a third grounding prong. The wide blade or the third prong are provided for your safety. If the provided plug does not fit into your outlet, consult an electrician for replacement of the obsolete outlet.
10. Protect the power cord from being walked on or pinched particularly at plugs, convenience receptacles, and the point where they exit from the apparatus.
11. Only use attachments / accessories specified by the manufacturer.
12. Use only with the cart, stand, tripod, bracket, or table specified by the manufacturer, or sold with the apparatus. When a cart is used, use caution when moving the cart / apparatus combination to avoid injury from tip-over.

13. Unplug this apparatus during lightning storms or when unused for long periods of time.
14. Refer all servicing to qualified service personnel. Servicing is required when the apparatus has been damaged in any way, such as power-supply cord or plug is damaged, liquid has been spilled or objects have fallen into the apparatus, the apparatus has been exposed to rain or moisture, does not operate normally, or has been dropped.

Note to the CATV system installer:

This reminder is provided to call the CATV system installer's attention to Article 820-40 of the NEC that provides guidelines for proper grounding and, in particular, specifies that the cable ground shall be connected to the grounding system of the building, as close to the point of cable entry as practical.

Example of antenna grounding as per NEC - National Electric Code



Wall mount bracket kit

	Brand	Model #	Screw dimension
50MV349R	SANUS	F80b	M6 x 1.378" (35mm)
43MV349R		25BB	M4 x 1.378" (35mm)
32MV319R		AST16	

- Your TV meets the VESA standard for wall mounting. Consult with your local dealer for a wall mount bracket which is compatible with your TV model.
- The recommended wall mount bracket kit (sold separately) allows the mounting of the TV on the wall.
- For detailed information on installing the wall mount, refer to the wall mount Instruction book.
- Funai is not responsible for any damage to the product or injury to yourself or others if you elect to install the TV wall mount bracket or mount the TV onto the bracket.
- The wall mount bracket must be installed by experts.

Funai is not liable for these types of accidents or injuries noted below.

- Install the wall mount bracket on a sturdy vertical wall.
- If installed onto a ceiling or slanted wall, the TV and wall mount bracket may fall which could result in a severe injury.
- Do not use screws that are longer or shorter than their specified length. If screws too long are used this may cause mechanical or electrical damage inside the TV set. If screws too short are used this may cause the TV set to fall.
- Do not fasten the screws by excessive force. This may damage the product or cause the product to fall, leading to an injury.
- For safety reasons use 2 people to mount the TV onto a wall mounting bracket.
- Do not mount the TV onto the wall mounting bracket while your TV is plugged in or turned on. It may result in an electrical shock injury.

When installing the unit on the wall, allow this much space.

Top	:	11.8 inches (30cm)
Left and right side	:	5.9 inches (15cm)
Bottom	:	3.9 inches (10cm)

1 Notice

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Funai reserves the right to change products at any time without being obliged to adjust earlier supplies accordingly.
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Pixel characteristics

This LCD product has a high number of color pixels. Although it has effective pixels of 99.999% or more, black dots or bright points of light (red, green or blue) may appear constantly on the screen. This is a structural property of the display (within common industry standards) and is not a malfunction.

Warranty

No components are user serviceable. Do not open or remove covers to the inside of the product. Repairs may only be done by service centers and official repair shops. Failure to do so shall void any warranty, stated or implied.

Any operation expressly prohibited in this Owner's manual, any adjustments or assembly procedures not recommended or authorized in this Owner's manual shall void the warranty.

Federal communications commission notice

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and the receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio or television technician for help.

Declaration of conformity

Trade name	:	MAGNAVOX
Responsible party	:	FUNAI CORPORATION, Inc.
Model	:	50MV349R, 43MV349R, 32MV319R
Address	:	21061 S. Western Ave. Suite 210, Torrance, CA 90501, USA*
Telephone number	:	1 866 341 3738

* This is not the mailing address for Open Source Software or Customer service.

Modifications

This apparatus may generate or use radio frequency energy. Changes or modifications to this apparatus may cause harmful interference.

Any modifications to the apparatus must be approved by Funai.

The user could lose the authority to operate this apparatus if an unauthorized change or modification is made.

Cables

Connections to this device must be made with shielded cables with metallic RFI / EMI connector hoods to maintain compliance with FCC Rules and regulations.

Canadian notice

CAN ICES-3 (B) / NMB-3 (B)
Analog and digital television receiving apparatus, Canada BETS-7 / NTMR-7.

The following FCC/IC RSS applies to the wireless LAN adapter included in this product.

FCC caution: Any changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate this equipment.

This transmitter must not be co-located or operated in conjunction with any other antenna or transmitter.

For product available in the USA market, only channel 1~11 can be operated. Selection of other channels is not possible.

FCC/IC RF Exposure Compliance

This equipment complies with FCC/IC radiation exposure limits set forth for an uncontrolled environment and meets the FCC radio frequency (RF) Exposure Guidelines and RSS-102 of the IC radio frequency (RF) Exposure rules.
This equipment should be installed and operated keeping the radiator at least 20cm or more away from your body.

This device complies with Part 15 of FCC Rules and Industry Canada licence-exempt RSS standard(s). Operation is subject to the following two conditions: (1) this device may not cause interference, and (2) this device must accept any interference, including interference that may cause undesired operation of this device.

5150-5250 MHz band is restricted to indoor operations only.

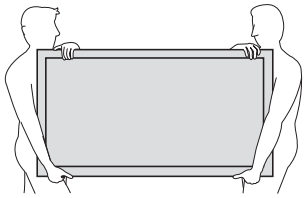
High-power radars are allocated as primary users (i.e. priority users) of the bands 5250-5350 MHz and 5650-5850 MHz and that these radars could cause interference and/or damage to LE-LAN devices.

Compliance with IC requirement RSS-210 A9.4.4

Data transmission is always initiated by software, which is the passed down through the MAC, through the digital and analog baseband, and finally to the RF chip. Several special packets are initiated by the MAC. These are the only ways the digital baseband portion will turn on the RF transmitter, which it then turns off at the end of the packet. Therefore, the transmitter will be on only while one of the aforementioned packets is being transmitted. In other words, this device automatically discontinue transmission in case of either absence of information to transmit or operational failure.

Positioning the TV

- Large screen TVs are heavy. 2 people are required to carry and handle a large screen TV.
- Make sure to hold the upper and bottom frames of the unit firmly as illustrated.



- Install the unit in a horizontal and stable position.
- Do not install the unit in direct sunlight or in a place subject to dust or strong vibration.
- Depending on the environment, the temperature of this unit may increase slightly. This is not a malfunction.
- When installing this unit in a temperate environment, avoid a place with rapid temperature changes.
  - Operating temperature: 41°F (5°C) to 104°F (40°C)
- This unit should not be used in a tropical environment as it has not been evaluated under such conditions.
- No objects should be placed directly on or under this unit, especially lighted candles or other flaming objects.
- Depending on your external devices, noise or disturbance of the picture and/or sound may be generated if the unit is placed too close to them. In this case, please ensure enough space between the external devices and the unit.
- Do not insert the AC power cord into the power socket outlet before all the connections are made.
- Ensure that you always have easy access to the AC power cord and outlet to disconnect the TV from the AC outlet.
- Before you move the TV, disconnect attached cables to prevent damage to connectors, especially the TV tuner.
- Be sure to unplug the AC power plug from the AC outlet before moving or carrying the unit.
- When moving the TV and then setting it down, please be careful not to pinch the AC power cord under the unit.
- Do not place this unit in an area where it may be exposed to water, oil or grease such as:
  near a bathtub, basin, kitchen sink, washing tub, swimming pool, kitchen exhaust fan, etc., or in a damp basement.

Regulatory notices

WARNING : To prevent injury, this apparatus must be securely attached to the furniture / wall in accordance with the instructions. Tipping, shaking or rocking the unit may cause injury / death.

WARNING : Never place a TV in an unstable location. A TV may fall, causing serious personal injury or death. Many injuries, particularly to children, can be avoided by taking simple precautions such as:

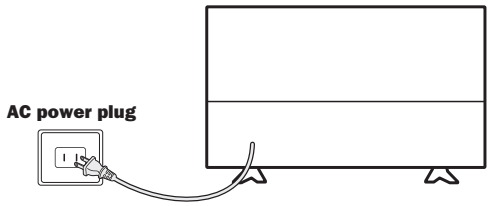
- Using cabinets or stands recommended by the manufacturer of the TV.
- Only using furniture that can safely support the TV.
- Ensuring the TV is not overhanging the edge of the supporting furniture.
- Not placing the TV on tall furniture (for example, cupboards or bookcases) without anchoring both the furniture and the TV to a suitable support.
- Not placing the TV on cloth or other materials that may be located between the TV and supporting furniture.
- Educating the children about the dangers of climbing on furniture to reach the TV or its controls.

If your existing TV is being retained and relocated, the same considerations as above should be applied.

Do not place the unit on the furniture that is capable of being tilted by a child and an adult leaning, pulling, standing or climbing on it. A falling unit can cause serious injury or even death.

In order to avoid interruption of ventilation, this unit should not be placed in built-in equipment such as a book cabinet, rack, etc., and the vents of this unit should not be covered with anything such as a tablecloth, curtain, newspaper, etc. Make sure that there is enough ventilation space (4 inches / 10 cm or more) around this unit.

Press ⏻ to turn the unit on and go into standby mode. To completely turn off the unit, you must unplug the AC power plug from the AC power outlet. Disconnect the AC power plug to shut the unit off when trouble is found or not in use. The AC plug shall remain readily available.



Never use a gas duster on this TV.
The gas trapped inside of this unit may cause ignition and explosion.

Environmental care

The packaging of this product is intended to be recycled.
Contact your local authorities for information about how to recycle the packaging.

Please visit ***http://www.magnavox.com*** and click Recycling under Information (or type ***https://www.magnavox.com/en/content/9-recycling***)

End of life directives

Magnavox pays a lot of attention to produce environmental-friendly products in green focal areas. Your new TV contains materials which can be recycled and reused. At the end of its life, specialized companies can dismantle the discarded TV to concentrate the reusable materials and to minimize the amount of materials to be disposed of. Please ensure you dispose of your old TV according to local regulations.

⚠ Batteries usage

CAUTION : Danger of explosion if battery is incorrectly replaced. Replace only with the same or equivalent type.

WARNING : Batteries (battery pack or battery installed) should not be exposed to excessive heat such as sunshine, fire or the like.

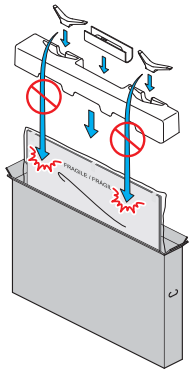
- Do not mix old and new batteries.
- Do not mix alkaline, standard (carbon-zinc) or rechargeable (ni-cad, ni-mh, Li-ion, etc.) batteries.

Disposal of used batteries

The batteries included do not contain the heavy metals mercury and cadmium, however in certain localities, disposing batteries with household waste is not permitted. Please ensure you dispose of batteries according to local regulations.

Preparing to move / ship the unit

Please pack the unit properly by following the diagram on the carton (as noted below).



- To avoid damage to the screen, do not pack the stand on the same side as the TV screen, refer to the illustration above.

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The American Academy of Pediatrics discourages television viewing for children younger than two years of age.

Some apps are not pre-installed, internet connection is required for download.

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2 Welcome

Congratulations on the purchase of your new Roku TV! Discover the joy of endless entertainment. After it's set up, you'll be able to access a world of streaming content channels that may include paid subscription channels like Netfl ix or free channels like YouTube, Crackle, CNET and literally thousands more.

Important : Your TV receives automatic updates from time to time, enabling new content and features. This edition of the User Guide describes Roku TV version 8.0. To determine the current version of your Roku TV, go to **Settings** > **System** > **About** after you complete Guided Setup.

The new standard in Smart TVs

Welcome to TV like you've most likely never seen before—a home screen that you can personalize with your favorite devices and streaming channels. Choose from hundreds of thousands of streaming movies and TV episodes, plus music, sports, kids, family, international and much more. You should never run out of things to watch.

Note(s)

- A paid subscription or other payments may be required for some channel content. Channel availability is subject to change and varies by country.

Get the most out of your new TV

Follow these simple steps to get the most out of your new TV.

1 Connect to the Internet

- It's simple, it's easy, and it will unlock a world of entertainment. All you need is a network connection. There are hundreds of free streaming channels, paid subscription services like Netflix and Spotify, and convenient ways to rent or buy a favorite film or show with, for example, Google Play

2 Pick your favorite streaming channels

- Find the entertainment you love. From the latest blockbuster movies to your favorite TV shows, with tons of live sports, a broad selection of music streaming channels, popular programming in a dozen international languages, 24x7 live news and so much more, your new Roku TV has your sweet spot. A paid subscription or other payments may be required for some channels.

3 Find Antenna TV shows in the Smart Guide

- Only in the United States, use the Smart Guide to see not only what's on TV right now, but what was on up to a week ago, and what will be on in the coming two weeks. And for many over-the-air programs, if you start watching the program after it is already in progress, or you see something you missed in the Smart Guide, you can use More Ways to Watch to find streaming channels where you can see the show from the beginning, find other episodes, or entire seasons of the show, if applicable.

4 Use Roku's Smart TV experience to discover More Ways to Watch on other inputs

- Only in the United States, When watching programs from a cable box, Blu-ray player, or other source connected to the HDMI® or AV inputs, keep an eye out for a notification of streaming channels that offer the program you're currently watching and, if applicable, other episodes, the entire series, or other programs with similar themes.

5 Personalize your Home screen

- Put your favorite streaming channels, and TV inputs front-and-center on the Home screen. No more flipping through inputs or wading through complicated menus. You can even customize the names of each input and move tiles around so your most-often used devices and streaming channels are only a click away.

6 Search for your favorite movie, TV show, actor, or director

- Once you're connected to the internet, you can easily search across top streaming channels and Antenna TV channels. Search by movie or TV show title, actor or director —all from one place. Search by typing words or phrases using the on-screen keyboard or on your mobile device or, only in the United States, speak words or phrases in a conversational tone using Voice Search. Some channels and content require payment.

7 Pause live TV

- Pause, resume, fast forward, and rewind TV shows. Simply connect your own USB drive with 16GB or bigger capacity to the TV and pause live TV for up to 90 minutes.

Note(s)

- Live TV Pause is available on digital TV shows received on the Antenna TV input, and only when the TV is linked to a valid Roku account.

8 Control your TV with voice commands

- Only in the United States, use your Roku Voice Remote (select models), Enhanced Voice Remote (select models), or the free Roku mobile app to control your Roku TV. Use conversational voice commands to search for programs by title, actor, director, or genre. Also use voice commands to launch streaming channels, switch inputs, change Antenna TV channels, or open the Smart Guide.

9 Send your personal media to the big screen

- Send personal photos, videos, and music from your compatible smartphone or tablet to the TV screen in just a few taps. Plus, with certain channels, such as Netflix and YouTube, you can send movies, shows, sport highlights, and more directly to your TV.

10 Follow movies coming soon

- Use My Feed to choose from and follow a list of upcoming movies, and then watch for alerts each time one of your followed movies becomes available or changes price.

11 Take charge with a smartphone or tablet

- Control your TV with the included remote or from your compatible smartphone or tablet with the free mobile app for iOS®, and Android™ mobile devices . Browse channels, view My Feed, listen to audio from Antenna TV and streaming channels. Search more easily using a your mobile device's keyboard and, only in the United States, Voice Search.
- Mirror your compatible smartphone or tablet on your TV. Share videos, photos, web pages, and more from compatible devices.

12 Connect your Roku TV to networks found in hotels and college dorms.

- You can temporarily link the TV to your smartphone or table to agree to any terms, enter codes, or provide required information before you can get Internet access.

Note(s)

- Using your Roku TV on a restricted public network requires wireless availability and use of your network-connected smartphone, tablet, or computer to authenticate access to your account. You must use your Roku TV remote to initiate the connection process. Streaming content might be limited due to your geographic location or because of restrictions imposed by the network host.

Go to ***support.roku.com*** for device compatibility information.

Let’s get started.

3 Connections and setup

Refer to your TV's Quick Start Guide or other provided documentation to for model-specific 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(s)

- 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.
- 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(s)

- 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(s)

- 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** ➟ **p. 11**

Connecting headphones or analog sound bar to the TV

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

Tip(s)

- 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 amplifi er 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(s)

- 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 HDMIR input on your

receiver or sound bar. This connection uses the Audio Return Channel (ARC) feature of the HDMIR 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** ➟ **p. 56**.

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(s)

- The TV supports only its internal wireless network adapter—iit 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.

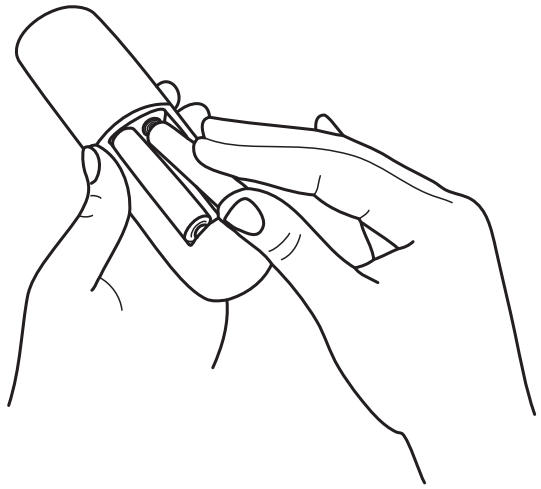
AC power

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 ➟ p. 25** 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.

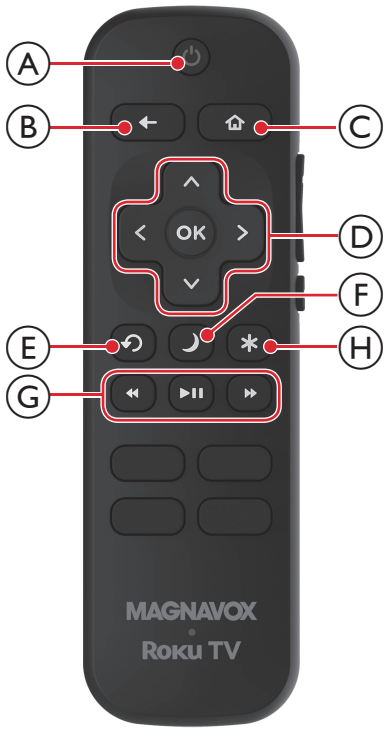


Roku TV Remote

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

Note(s)

- 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.



Ⓐ **(Power)**
Turns TV on and off.

Ⓑ **(Back)**

- Menu: Goes back to previous menu/screen.
- Home screen tile: Moves highlight back to the Home screen option.
- Watching Antenna TV or a TV input: Returns to Home screen.
- 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.

Ⓒ **(Home)**
Immediately returns to the Home screen.

Ⓓ **Pad**

- **Left** / **Right** / **Up** / **Down** moves the highlight in the corresponding direction.
- **OK** selects the highlighted option.
  While watching TV:
- Up/Down changes channel.
- Left displays the Smart Guide (connected mode) or channel list (non-connected mode).
- Left / Right only on TVs operating in non-connected mode, while in the channel list switches between All Channels and Favorite channels.
- **OK** while in the channel list selects the highlighted channel.

While watching live TV, displays the program information banner.

Ⓔ **(Instant replay)**
Select models. 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.
Broadcast TV: if Live TV Pause is disabled, jumps to previous channel.
When using an on-screen keyboard: Backspaces in the text you are entering.
Smart Guide: Return to the current day and time.

Ⓕ **(Sleep)**
Select models. 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.

Ⓖ **Media playback controls**
Rewind, pause, play, and fast forward streaming content and Antenna TV channels (if Live TV Pause is enabled).
Press **Rewind** or **Fast forward** one, two, or three times to control the speed of the operation.
Rewind and **Fast forward** also jump backward and forward one page at a time when viewing long lists, such as when you are browsing Antenna TV shows in the channel list or Smart Guide (U.S. only).

Ⓗ **(Options)**
Displays additional options when available.
On-screen hints let you know when this button is active.

Ⓘ **(Volume) / (Mute)**
Increases/decreases volume and mutes the TV sound.

Note(s)

- If the TV is muted, pressing **Volume up** unmutes.
  Pressing **Volume down** does not unmute the sound.

Panel buttons

Your TV has a set of panel buttons that perform simple control functions. The TV panel buttons are not a substitute for the remote, as they do not give you access to all TV functions.

Depending on model, your TV model has one of several different panel button designs. Choose the one that applies to your TV from the following list:

- **Single button**
- **Three buttons**
- **Game-pad style joystick**
- **Four buttons**
- **Five buttons (with mute)**
- **Five buttons (without mute)**
- **Seven buttons**

Single button

If your TV has this style of panel button, you can perform the following functions:

- **Turn TV on** : short press
- **Display the Input List** : short press when TV is on
- **Select the next input in the Input List** : short press while the TV is showing the Input List
- **Dismiss the Input List without changing inputs** : no press
- **Turn TV off** : long press

  Short press = less than two seconds

  Long press = more than two seconds

  No press: = no press within two seconds

Three buttons

If your TV has this style of panel buttons, you can perform the following functions:

- **Turn TV on** : middle button, short or long press
- **Volume up** : right button when Input List is not active
- **Volume down** : left button when Input List is not active
- **Display Input List** : middle button, short press when TV is on
- **Highlight next input in the Input List** : right button when Input List is active
- **Highlight previous input in the Input List** : left button when Input List is active
- **Select highlighted item in the Input List** : middle button, short press, or no press
- **Turn TV off** : middle button, long press

  Short press = less than two seconds

  Long press = more than two seconds

  No press: = no press within four seconds

Game-pad style joystick

If your TV has this style of panel button, you can perform the following functions:

- **Press in** : Toggle between power ON and Standby
- **Press up or down** : Increase/decrease the volume
- **Press left or right** : Switch inputs.

  Each press moves the highlight up or down one item. Pausing for a few moments selects the highlighted item.

Four buttons

If your TV has this style of panel buttons, you can perform the following functions:

- Power: Turns the power on and off.
- Input: Selects among TV inputs. Each press moves down one item. Pausing for a few moments selects the highlighted item.
- Volume +: Increases the volume.
- Volume –: Decreases the volume.

Five buttons (with mute)

If your TV has this style of panel buttons, you can perform the following functions. Note that the order of the buttons might vary from model to model. Examine the panel button labels to determine your TV model's layout.

- Power: Turns the power on and off.
- Input: Selects among TV inputs. Each press moves down one item. Pausing for a few moments selects the highlighted item.
- Volume +: Increases the volume.
- Volume –: Decreases the volume.
- Mute: Mutes and unmutes the sound.

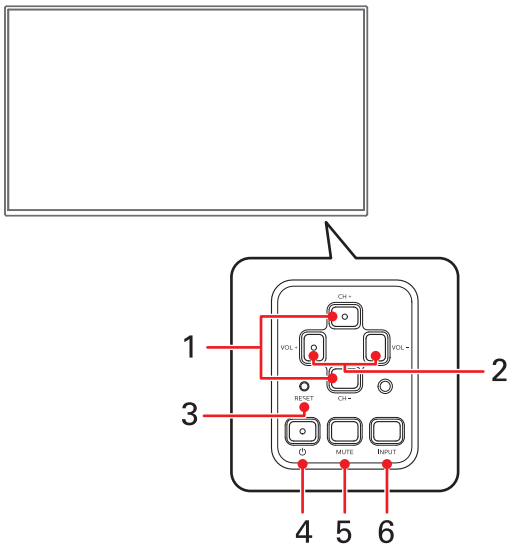
Five buttons (without mute)

If your TV has this style of panel buttons, you can perform the following functions. Note that the order of the buttons might vary from model to model. Examine the panel button labels to determine your TV model's layout.

- Power: Turns the power on and off.
- Input +: Selects the next TV input. Each press moves down one item. Pausing for a few moments selects the highlighted item.
- Input -: Selects the previous TV input. Each press moves up one item. Pausing for a few moments selects the highlighted item.
- Volume +: Increases the volume.
- Volume –: Decreases the volume.

Seven buttons

If your TV has this style of panel buttons, you can perform the following functions. Note that the order of the buttons might vary from model to model. Examine the panel button labels to determine your TV model's layout.



Control panel located on the back of the TV.

1. Channel +: Moves the highlighted item up in the current menu.
   Channel –: Moves the highlighted item down in the current menu.
2. Volume +: Increases the volume.
   Volume –: Decreases the volume.
3. Reset:
4. Power: Turns the power on and off.
5. Mute: Mutes and unmutes the sound.
6. Input: Selects among TV inputs. Each press moves down one item. Pressing Channel + or Channel – moves the highlight up or down. Pausing for a few moments selects the highlighted item.

4 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 ⏻ button on the remote to turn on your TV.

Note(s)

- 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** ➟ **p. 57**.

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.

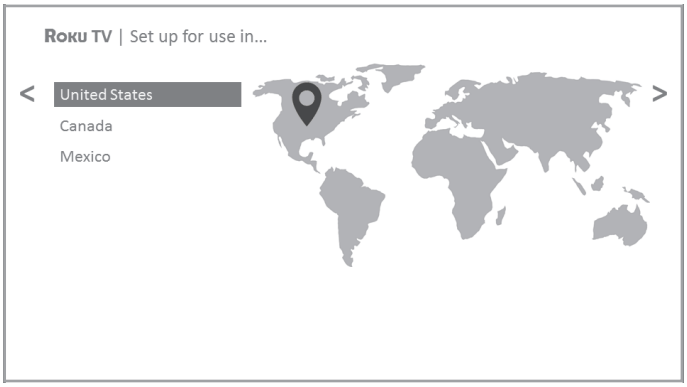
Tip(s)

- 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(s)

- 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.



Note(s)

- If you enabled Audio Guide, choosing any country other than United States disables it.

4. Press **OK** or the **Right** arrow on the remote to go to the next screen:

Note(s)

- Some models show the title **First things first** instead of **Set up** environment.

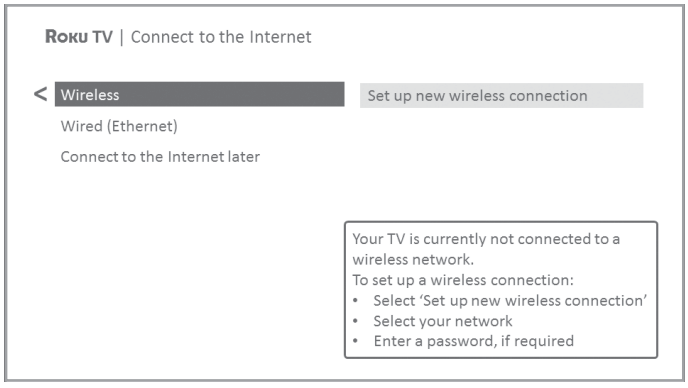
5 Press **OK** to select **Set up for home use**. This is the right choice for enjoying your TV at home. It provides energy saving options as well as access to all features of the TV.

Note(s)

- 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** ➟ **p. 57**, 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.



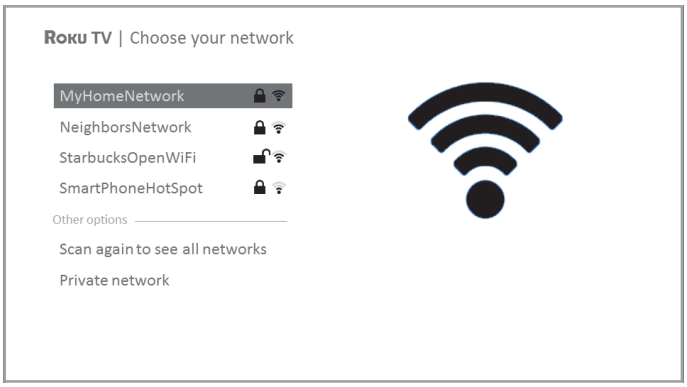
6 Only models that display the **Connect to the Internet** screen: Make a selection:

- **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** ➟ **p. 21**

Note(s)

- 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** ➟ **p. 19** 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(s)

- 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** ➟ **p. 33**.

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** ➟ **p. 21**.

Note(s)

- 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** ➟ **p. 19** 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(s)

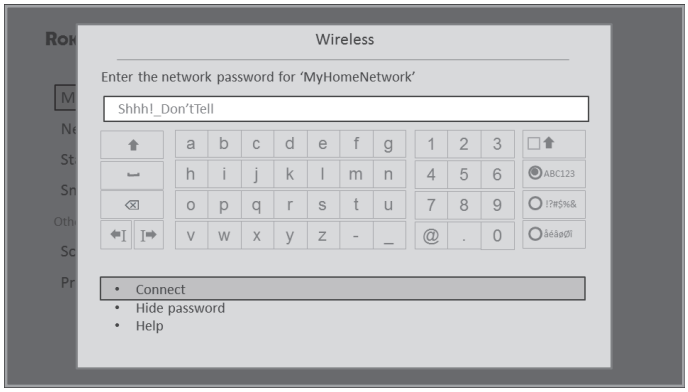
- Highlighting either of these options displays an informational panel with the unique media access control (MAC) address of your Roku TV. You will need the MAC address if your wireless router is configured to use MAC address filtering.

- **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(s)

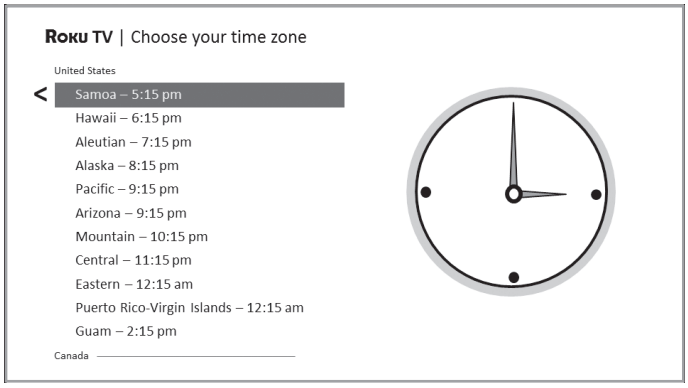
- Wireless networks that are password-protected display a "padlock" icon adjacent to the name. This icon enables you to know that you are going to be prompted to enter a password after you select that network.

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(s)

- 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.

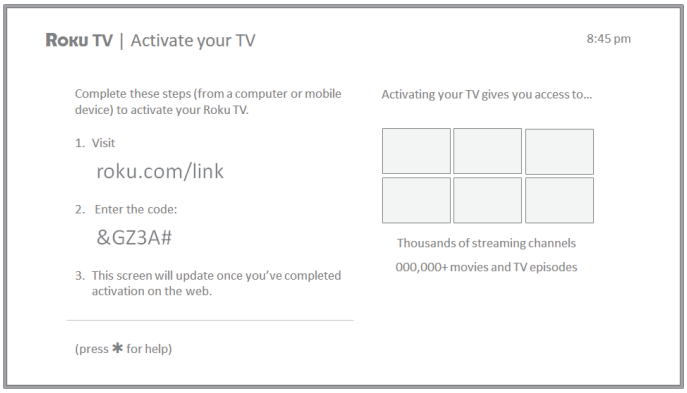
As soon as the TV is able to connect to the Internet, it downloads and installs its first software update, and then restarts.

Tip(s)

- 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 8.0. 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. 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.

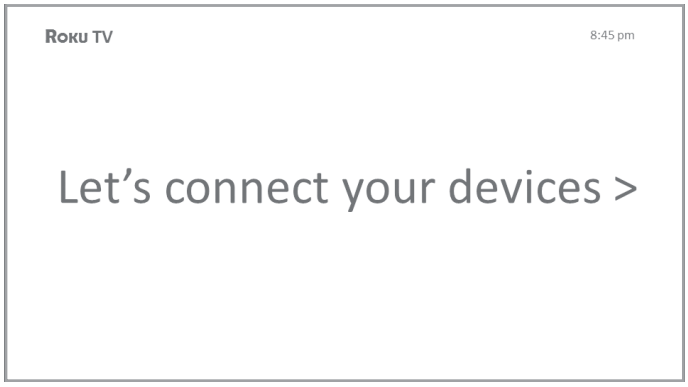
After you log in or create your Roku account, the link page suggests that you select some streaming channels. After you confirm your selections, the TV gets an acknowledgement, and then adds your preexisting and newly-selected streaming channels to your Roku TV. This process is automatic and takes a few moments—a little longer if you already have a lot of streaming channels to add.

Tip(s)

- 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.

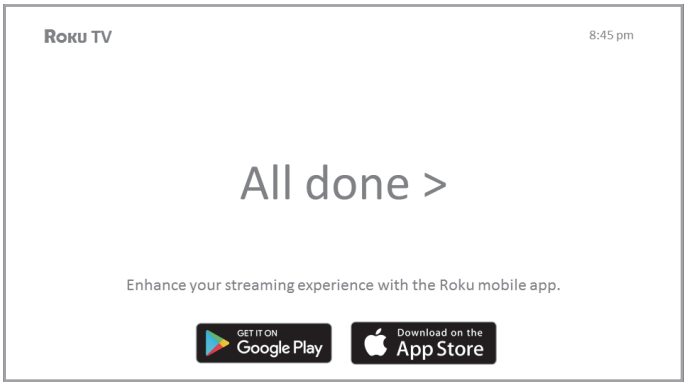
14 While setting up your devices, rather than using the predefined names and icons, you can set a custom name and icon. To do so, scroll up or down to highlight **Set custom name & icon**, and then press **OK**. Follow the instructions on the screen to enter a name and select an icon for the input. See **Rename inputs** ➟ **p. 45**.

Note(s)

- If you have renamed the inputs, you cannot use voice commands to switch inputs. Voice commands can only switch among inputs that have their original names, such as "AV," and "HDMI 1."

15 Repeat the previous step for each input.

You're done with Guided Setup.



Note(s)

- 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.

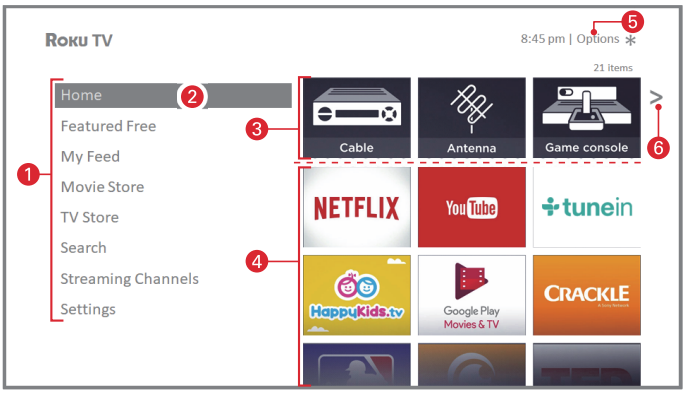
From here, you can explore everything your TV has to offer. Press the arrow keys to move around, and press **OK** to select a highlighted item. We've designed the TV to encourage you to explore, and you can probably figure out most of the capabilities and settings on your own. If you have any questions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

Home screen

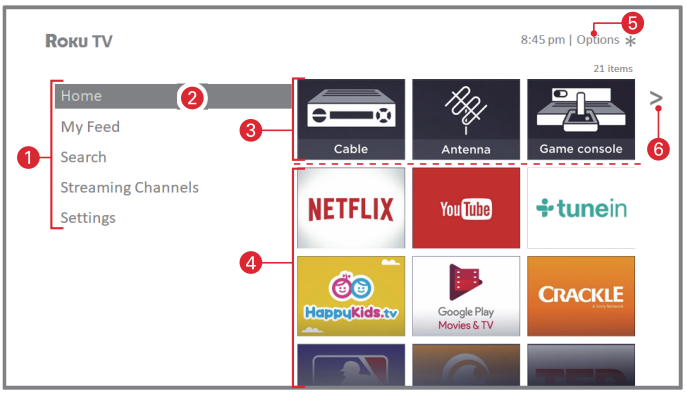
The following illustrations show typical Home screens, which vary depending on location, connected mode, selected theme, number of TV inputs enabled, and streaming channels and apps added.

Note(s)

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

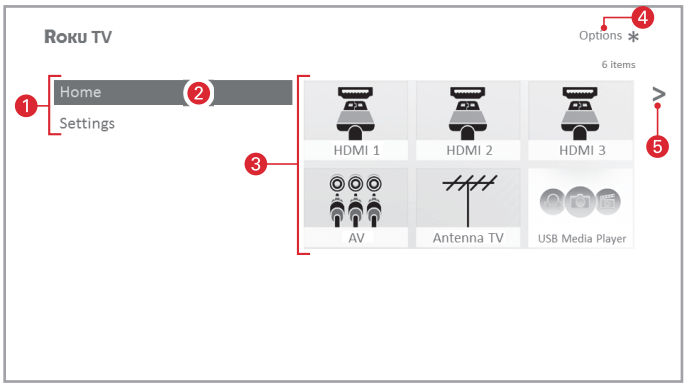


Typical connected Home screen, United States



Typical connected Home screen, Canada

1. **Home screen menu — shows options available to you when you are on the Home screen**
2. **Highlighted option — press OK on the remote to select.**
3. **TV input tiles — select an input to watch the connected device.**
4. **Streaming channel and app tiles — select a tile to go to the indicated streaming channel or application.**
5. **Options hint—press ✱ on the remote for options when this symbol is present.**
6. **Next screen hint—press the Right arrow on the remote to see the next screen.**



Typical non-connected Home screen

1. **Home screen menu—shows options available to you when you are on the Home screen.**
2. **Highlighted option—press OK on the remote to select.**
3. **TV input tiles—select an input to watch the connected device.**
4. **Options hint—press ✱ on the remote for options when this symbol is present.**
5. **Next screen hint—press the Right arrow on the remote to see the next screen.**

Personalize your Home screen

There are many things you can do to personalize your Home screen and make it just right for you and your family:

- Only in connected mode: Add streaming channels by using the **Streaming Channels** menu option to browse the Roku Channel Store.
- Only in connected mode: Change the screen theme by going to **Settings** > **Themes** to find and pick one to suit your mood.
- Only in connected mode on U.S. models: Hide Featured Free or Movie Store and TV Store as explained in **Configuring parental controls** ➟ **p. 49**.
- Remove a tile by highlighting it and pressing ✱ . Then highlight **Remove input** or **Remove channel** and press **OK**.
- Move a tile by highlighting it and pressing ✱ . Then highlight **Move input** or **Move channel** and press **OK**. Use the arrows to move the tile, and then press **OK** to lock it in its new location.
- Rename a TV input tile by highlighting it and pressing . Then highlight **Rename input** and press **OK**. Highlight a new name in the list, and then press **OK** to assign that name to the tile.

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.

Note(s)

- If you have renamed the inputs, you cannot use voice commands to switch inputs. Voice commands can only switch among inputs that have their original names, such as “AV,” and “**HDMI 1**.”

5 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*1. 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 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 ✱ 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 (U.S. only) 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 let you use your Roku Voice Remote, Roku Enhanced Voice Remote, 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*2.

*1 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.

*2 Available only on Roku mobile app for IOS® and Android™. This feature works with streaming content only. It is not available when watching Antenna TV or HDMI inputs.

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(s)

- 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 ➟ p. 44**.

Note(s)

- 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.

6 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 HDMIR connection.

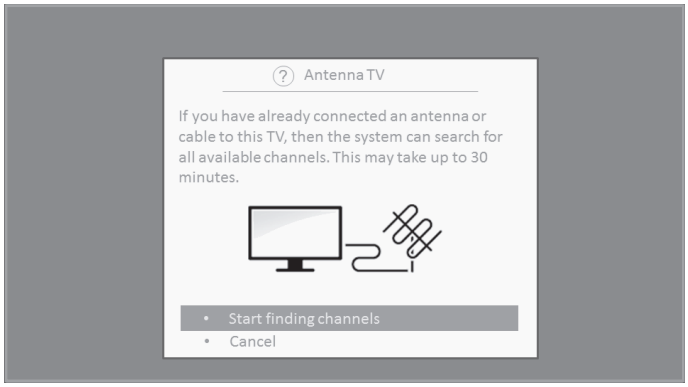
More and more people are watching only streaming TV and do not have a TV antenna or cable/satellite service. If you don't need the TV tuner, you can bypass setting it up and instead remove it from the Home screen as explained in **Remove unwanted tiles ➟ p. 45**.

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.

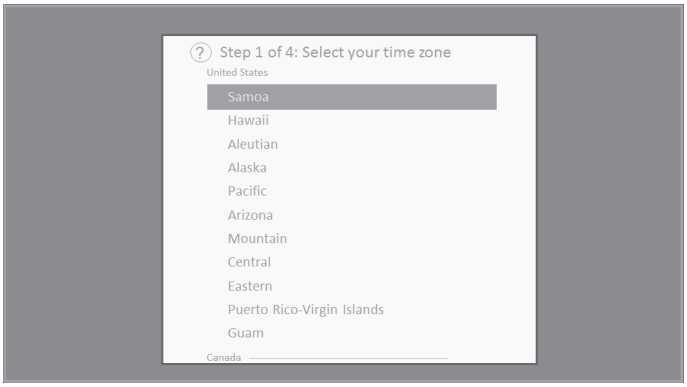
The TV lets you add two analog channels, even if they have no signal, for the purpose of using an older set top box, VCR, or game console that can only output a signal on analog channel 3 or 4. Typically, you'll only need one of these channels, but both are provided to make setup simpler. You can hide the one you don't want as explained in **Edit Antenna TV channel lineup ➟ p. 46**.

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.

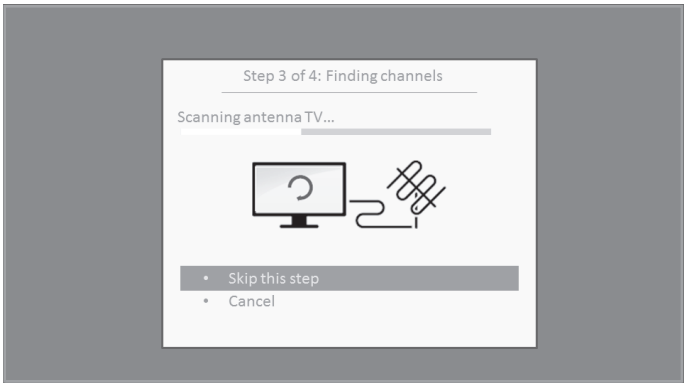


Why does the TV need my time zone?

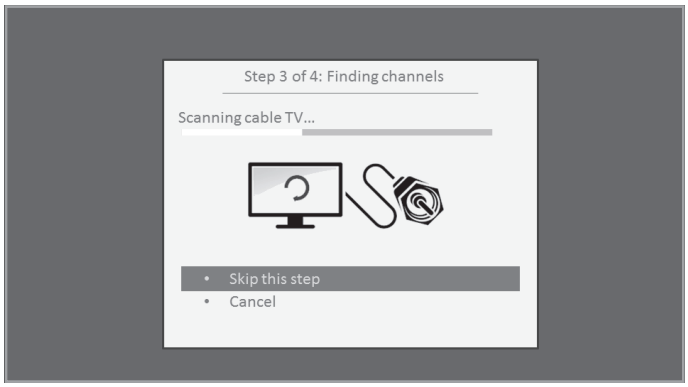
The TV needs to know your time zone so that it can correctly display time information about the program you are currently watching.

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.

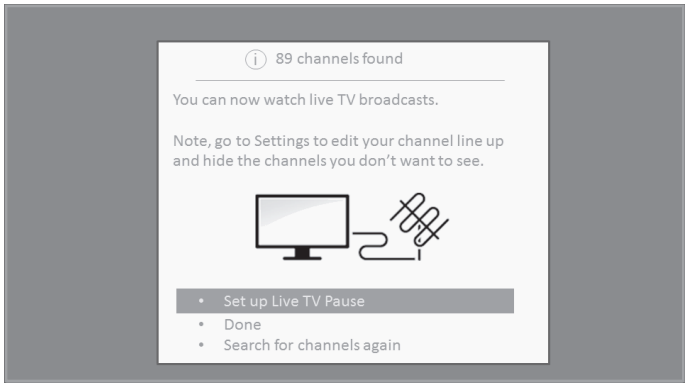


Scanning for channels can take several minutes.

Tip(s)

- 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** ➟ **p. 29** 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(s)

- 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(s)

- 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, hold down 🎤 or 🔍, and then say the name of a movie, TV show, actor, or 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(s)

- 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** ➟ **p. 60**.

7 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.

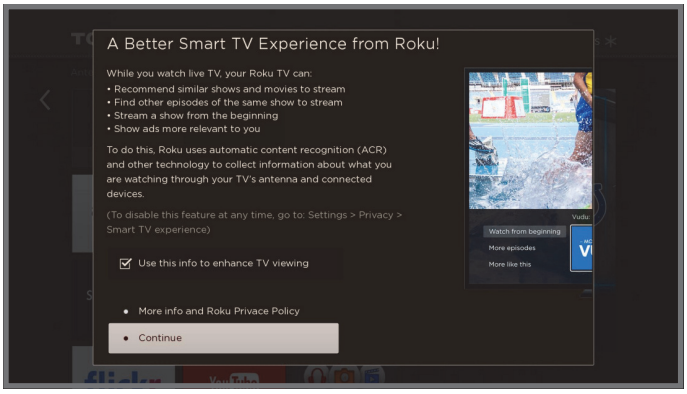
Standby mode energy savings

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(s)

- 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 move through the list one page at a time. When you've highlighted the channel or show you want to watch, press **OK**. (If you decide you don't want to change channels, press the ← 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(s)

- 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 ➡ p. 60**.

Favorite Channels in non-connected mode

You can quickly change from surfing among all channels or only your favorite channels. First, you have to mark one or more channels as your favorites.

Note(s)

- In the United States, in connected mode, favorite channels appear at the top of the Smart Guide automatically after several days of watching Antenna TV channels. For details, see **Smart Guide (U.S. only) ➡ p. 27**.

Mark your favorite channels

In non-connected mode, you can make any channel a favorite whenever you're watching Antenna TV channels.

1. Press the **Left** arrow to display the channel list. Notice that the words **All channels** appear at the top of the channel list.
2. Scroll up or down to highlight a channel that you want to make a favorite.
3. Press ✱. At this point, you'll see two options:
   - **Add to favorites**
   - **Back**
4. With **Add to favorites** highlighted, press **OK**. A symbol ♡ appears adjacent to the channel to indicate that it is now a favorite.
5. Repeat these steps to add more favorite channels.

Note(s)

- Repeating the tuner channel scan erases your favorite channels.

Surf only your favorite channels

In non-connected mode, after you've marked one or more channels as favorites, you can switch to your favorite channels whenever you're watching Antenna TV channels.

1. Press the **Left** arrow to display the channel list.
2. Press the **Left** or **Right** arrow once to switch to **Favorites**. Notice that the word **Favorites** appears at the top of the channel list.
3. Highlight a channel and press **OK** to select one of the channels in the Favorites channel list, or wait a few moments until the channel list disappears.
4. Press the **Up** or **Down** arrow to change to the previous or next favorite channel. Each channel you select in this way is a favorite channel. Your channel surfing is limited to favorite channels only.

Your favorite channel list remains in effect even if you turn off or unplug your TV, until you switch back to all channels.

Note that when you press **OK** to view the program information banner while watching a show, a ♡ symbol appears below the channel number.

Surf all channels again

In non-connected mode, you can switch back to all channels whenever you're watching Antenna TV channels.

1. Press the **Left** arrow to display the channel list.
2. Press the **Left** or **Right** arrow once to switch to **All channels**. Notice that the words **All channels** appear at the top of the channel list.
3. Highlight a channel and press **OK** to select one of the channels in the All channels list, or wait a few moments until the channel list disappears.
4. Press the **Up** or **Down** arrow to change to the previous or next channel among all your available channels. You can surf among all channels in your channel list.

Remove a channel from your favorites

In non-connected mode, you can remove a channel from your favorites whenever you're watching the Antenna TV input.

1. Press the **Left** arrow to display either channel list—**All channels** or **Favorites**.
2. Scroll up or down to highlight a favorite channel that you want to remove from your favorites.
3. Press ✱ on your remote. At this point, you'll see two options:
   - **Remove from favorites**
   - **Back**
4. With Remove from favorites highlighted, press **OK**. The ♡ symbol adjacent to the channel disappears.
5. Repeat these steps to remove other channels from Favorites.

Smart Guide (U.S. only)

Only in connected mode in the United States, use the Smart Guide to find over-the-air TV shows through the Antenna TV input. The Smart Guide lets you scroll through all TV channels (except those you have hidden, if any). You can see all the shows from today, the previous 7 days, and the upcoming 14 days.

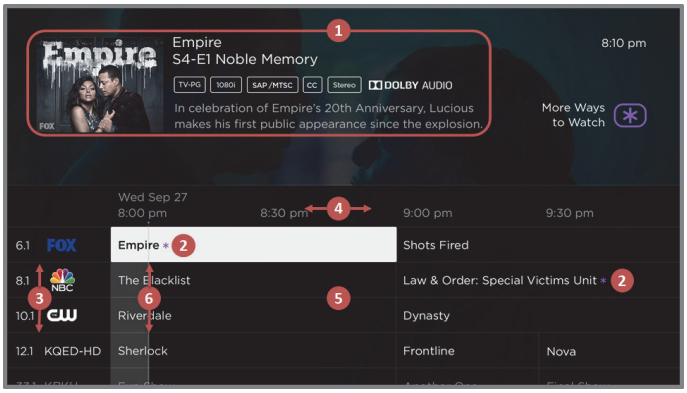
The ability to see shows that have already aired during the previous week enables you to use More Ways to Watch to catch up on missed movies or episodes by selecting them from one of the streaming channels. Your clue that there are More Ways to Watch a show is a purple asterisk (✱) next to the program name in the guide.

For example, you might turn on your TV at 10 minutes past the hour and discover you are missing the current episode of Empire. But, there is a purple asterisk next to the show title, so you can press (✱) and find that there are several streaming channels where you can watch the current episode from the beginning. You also can find more episodes of Empire, and other shows that have a similar theme.

Note(s)

- A paid subscription or other payments may be required for some channels.

To view the Smart Guide, press the **LEFT** arrow. The Smart Guide opens showing the name of the current program highlighted, and a lot more information.



Program information banner

1. Program information for the highlighted show. **Viewing program information** ➟ **p. 28** for details.
2. More Ways to Watch indicator. See **More Ways to Watch (U.S. only)** ➟ **p. 30**, for more information.
3. Channel list. Navigate with the **UP** and **DOWN** arrows.
4. Time slots. Navigate with the **LEFT** and **RIGHT** arrows. Use the FF and REW buttons to skip ahead or back 24 hours.
5. Program list
6. Progress bar showing the approximate time with respect to the time slots.

As you navigate, notice that the Smart Guide shows a light gray background for programs and portions of programs that have already aired. It shows a black background for programs and portions of programs that have not yet aired. The line dividing these two zones is the progress bar.

Navigating the Smart Guide

- To switch to a program that is currently in progress, highlight it, and then press **OK**.
- To return to the current time after navigating to a different time slot, press REPLAY ↺.
- To return to the currently airing program without causing a channel change, press **BACK**.
- To see More Ways to Watch, highlight any show that has a purple asterisk (✱), and then press ✱.

Favorite channels in the Smart Guide

The Smart Guide organizes your favorite channels at the top of the program list for convenient access. It does this automatically as you use your TV over several days. If you would prefer not to have a favorites section in the Smart Guide, you can turn this feature off.

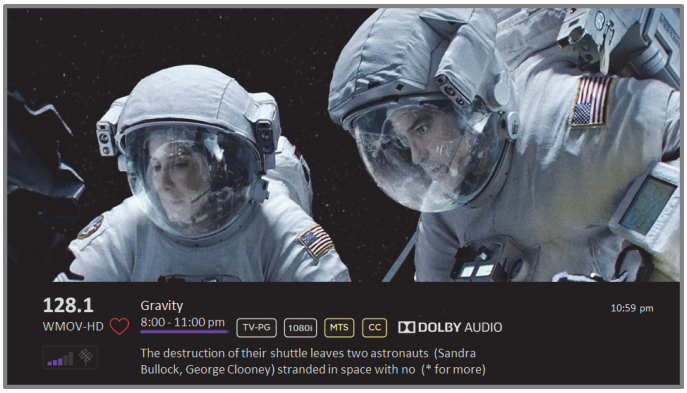
Turn off favorite channels

1. From the Home screen menu, navigate to **Settings** > **TV inputs** > **Antenna TV** > **Favorite channels**.
2. Highlight Enable 'Favorite channels'.
3. Press **OK** to clear the check mark.

Viewing program information

You can view program information in different ways:

- Only in connected mode in the United States, view program information for any program listed in the Smart Guide. Press the **LEFT** arrow while watching Antenna TV to see the Smart Guide.
  For more information, see **Smart Guide (U.S. only)** ➟ **p. 27**.
- View program information for the current program in a banner at the bottom of the screen. You can view program information in this way on both connected and non-connected TVs. The following illustration shows the information that is available:



Program information banner

Program information might include any or all of the following, depending on availability within the broadcast information:

- Channel number
- Channel call sign
- Favorite channel icon ♡
- Signal strength
- Program title and episode name/number
- Start time, end time, and graph of program length showing current position
- Content rating
- Video resolution (480i, 480p, 720p, 1080i, 1080p, 4K)
- Frame rate (24Hz, 30Hz, 60Hz for television sources, 60Hz, 70Hz, 72Hz, 75Hz for computer sources)
- Audio format (Mono, Stereo, Dolby Audio™ logo)
- Audio features (SAP/MTS)
- Only on select 4K models: HDR or Dolby Vision™* logo (HDMI® and streaming sources)
- Closed captioning (CC)
- Current time
- Program description. If the entire description does not fit, press **OK** to expand the size of the banner and see the entire description.

Tip(s)

- If you've set up Live TV Pause and you're watching Antenna TV, you'll also see a progress bar showing the current playback position within the rolling 90-minute pause time. For more information, see **Pausing Live TV** ➟ **p. 29**.

* The Dolby Vision™ logo appears only on Dolby Vision™-certified models when displaying Dolby Vision™ content.

Adjusting settings while watching a show

Press ✱ to display the **Options** menu (except when you are viewing the program information banner). Press the **Up** and **Down** arrows to highlight an option, and then press the **Left** and **Right** arrows to change the setting. The topic **Adjusting TV settings** ➟ **p. 35** explains each of the settings in detail.

Pausing Live TV

Live TV Pause gives your Roku TV the ability to pause, play, fast forward, and rewind digital Antenna TV. You can pause Antenna TV for up to 90 minutes.

Requirements

To use this feature, you need to:

1. Connect your TV to the Internet. If you didn't connect during Guided Setup, see **What if I didn't connect my TV?** ➟ **p. 22**.
2. Provide your own dedicated USB drive with the following minimum specifications.
   - 16 GB
   - 15 Mbps read/write speed
   - USB 2.0 compliant

   A USB flash drive (thumb drive) meeting the minimum requirements is highly recommended. Note that using a larger drive does not extend the 90 minute pause time.

   IMPORTANT: After warning you and giving you a chance to cancel Live TV Pause setup, all existing content on your USB drive is erased when you enable this feature.
3. Connect your USB drive to the TV's USB port.

   IMPORTANT : Some TV models have more than one USB port. You can connect your Live TV Pause USB drive to any port, but make sure that nothing is connected to other USB ports while enabling Live TV Pause. Reconnect other USB devices after you have finished enabling Live TV Pause.
4. Enable Live TV Pause, as explained in the following topic.

Enabling Live TV Pause

You can start setting up Live TV Pause in any of the following ways:

- Go to **Settings** > **TV inputs** > **Antenna TV** > **Live TV Pause**, and then select Enable.
- After completing a channel scan, select **Set up Live TV Pause** from the available options.
- Press **Play**/**Pause** on the Roku remote while watching a digital Antenna TV channel.
- Highlight the Antenna TV tile on the Home screen, press ✱ on the remote, and then select **Enable Live TV Pause**.

After starting setup of Live TV Pause in any of these ways, the TV prompts you through the steps needed to enable this feature. Setup takes only a few moments.

Note(s)

- Use of a USB hub is not supported.

Using Live TV Pause

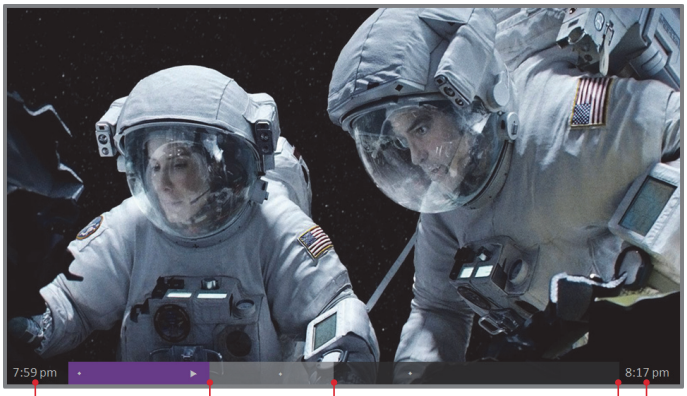
If you have used the Roku remote to watch streaming channels, using Live TV Pause should be very familiar to you.

- While watching a digital Antenna TV channel, press **Play**/**Pause** to pause or play the content. After the TV program has been paused for 90 minutes, the TV resumes playing.
- After watching a channel for a while, press **Rewind** to jump back up to the point where you first started watching the channel, up to 90 minutes.
- After pausing or rewinding, press **Fast forward** to jump ahead up to the point where you are once again watching the live TV program.
- Press **Fast forward** or **Rewind** repeatedly to cycle through 1x, 2x, and 3x skip speeds. Press **Instant replay** ↶ to play back the last several seconds of the program.
- When the program is paused, press the **Left** and **Right** arrows to move forward and backward through the program approximately 10 seconds per press. Small frames appear across the screen to identify your location in the program.

Note(s)

- If the ↶ button is not available on your remote, you can use the Roku mobile app. For more information, see **Getting and using the Roku mobile app** ➟ **p. 60**.

Whenever you use any of the Live TV Pause features, the TV momentarily displays a progress bar:



1. **Time at current playback position.**
2. **Current playback position**
3. **Extent of pause time, representing the amount of time this channel has been buffered, up to 90 minutes.**
4. **90 minute mark, representing the maximum extent of pause time.**
5. **Current time.**

The progress bar also displays tick marks at each half hour point, to help you locate the boundaries where one show ends and a new one begins.

Notes about Live TV Pause

- You can use Live TV Pause only with digital broadcast and cable channels received through the TV's ANT input (ATSC and Clear QAM channels).
- Changing channels erases and restarts the Live TV Pause buffer.
- Returning to the Home screen, selecting another input, or turning off the TV erases and resets the Live TV Pause buffer.
- Removing the USB drive erases the Live TV Pause buffer.

More Ways to Watch (U.S. only)

Only in connected mode in the United States, More Ways to Watch gives you recommendations about the shows you're watching on the Antenna TV, HDMI, or AV input. You will automatically get these recommendations in the Smart Guide and in the program information banner for Antenna TV programs. However, before you can get recommendations for shows you're watching through the HDMI or AV inputs, you must opt into the Smart TV experience to acknowledge that you want to allow the TV to use automatic content recognition (ACR). See **Opting in to Smart TV experience (U.S. only)** ➟ **p. 25** for details. Not every show provides recommendations. For details about what you'll see when a recommendation appears, see **Using More Ways to Watch** ➟ **p. 30**.

Using More Ways to Watch

As you use More Ways to Watch, be aware that you'll only see suggestions on your TV when all of the following **conditions are met**:

- Your TV is operating in connected mode in the United States.
- If you are watching shows through and HDMI or AV input, you've enabled Smart TV experience. (If you are watching Antenna TV channels, this setting does not matter.)
- The program you're watching contains the information needed to identify it. Note that some programs, such as the daily news, typically do not activate More Ways to Watch.
- At least one participating streaming channel offers the movie or TV show you are watching, or other episodes, or more shows like the one you are watching.

If all of these conditions are met, you can view the suggestions.

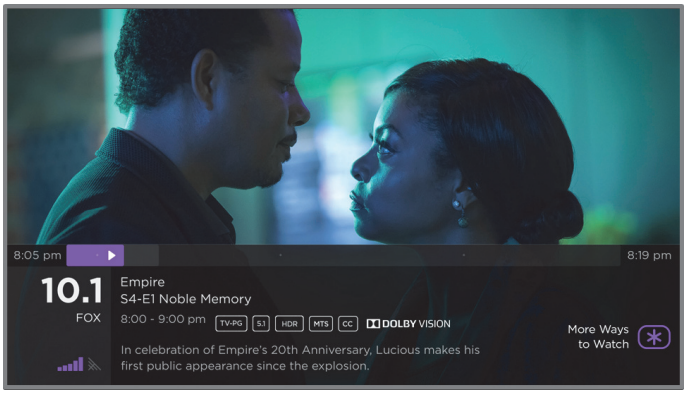
More Ways to Watch recommendations appear in several places:

- When watching the HDMI and AV inputs, you'll see a **More Ways to Watch** notification in the lower right corner of the screen for a few seconds unless you have disabled Enable auto notifications:

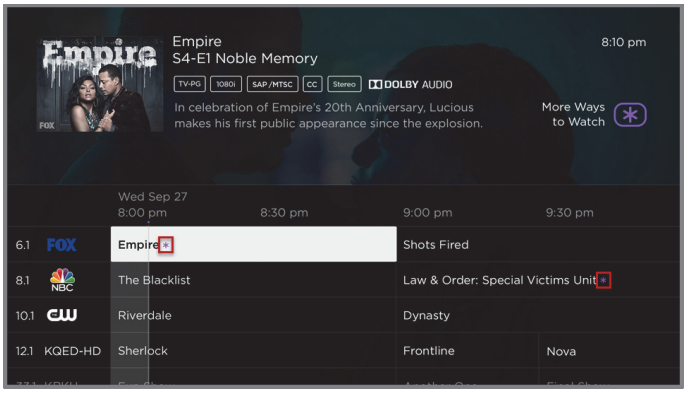
Note(s)

- After this banner disappears, you can restore the More Ways to Watch prompt by pressing **OK**.

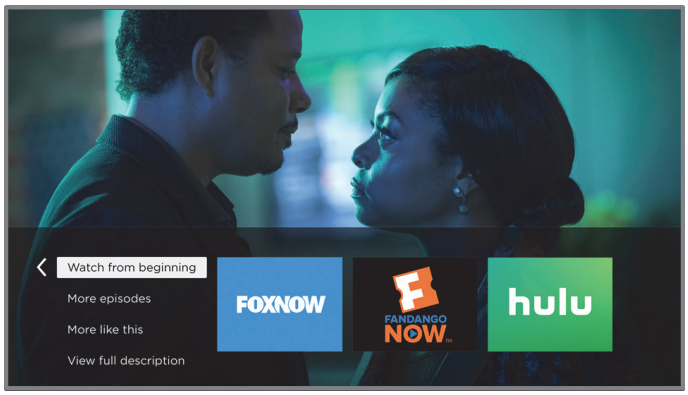
- For shows on Antenna TV channels, check the program information banner that appears for a few moments when you change channels or when you press **OK** while watching a show. If your TV has suggestions, you'll see a **More Ways to Watch** notification in the banner:



- In the Smart Guide, you can view More Ways to Watch recommendations on any program that shows a purple asterisk ✱ next to its title:



Regardless of which **More Ways to Watch** prompt appears, press ✱ to see the recommendations. The options you'll see depend on the type of show you're watching and the available ways there are to watch, so you might see any or all of the following:



- **Watch from beginning** – Streaming channels on which the same TV show or movie is available. Generally, this option does not appear on first run programs, because streaming content is not available until a later date.
- **More episodes** – Streaming channels where you can find other episodes of the TV show you are watching. Does not apply to movies.
- **More like this** – TV shows or movies with a similar theme.
- **View full description** – Full description of the selected show.

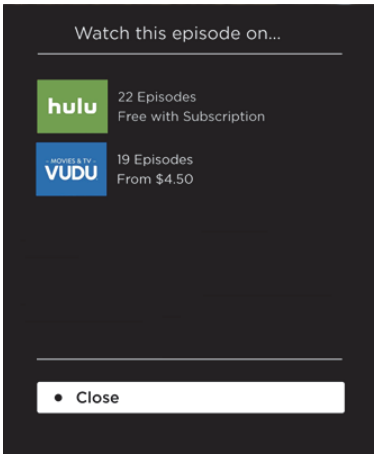
Press the **Down** arrow to select an option, and then press the **Right** arrow to select the channel you want to use to watch from the beginning or watch more episodes, or the other TV show or movie with a similar theme.

Assuming you've already added the channel and completed any required sign-in, More Ways to Watch takes you directly to the program in the streaming channel where you can select and watch the program.

Otherwise, it prompts you to add the channel and, if you do, then takes you to the show.

Getting the most from More Ways to Watch

- Streaming channels you've already installed appear first in the list of suggestions.
- When you select a streaming channel, you leave the program you are currently watching.
- If you've used the Live TV Pause feature to pause the program, your paused program buffer is deleted. In other words, you cannot return to an Antenna TV channel and resume watching where you left off.



Switching TV inputs

Switch TV inputs to access the device connected to that input, for example, a Blu-ray™ player. Switching inputs is as simple as highlighting the input's tile in the Home screen, and pressing **OK**. The video signal on the input, if any, plays on the screen.

Tip(s)

- To learn how to add, remove, rename, and rearrange the tiles on your Home screen, see **Customizing your TV** ➟ **p. 45**.

Auto-detecting devices

Your TV automatically detects when you connect a new device to an HDMI® input and turn on its power. The input is automatically added to the Home screen if it isn't already present.

Adjusting audio/video settings

While watching video content on any input, press ✱ to display the **Options** menu. Press the **Up** and **Down** arrows to highlight an option, and then press the **Left** and **Right** arrows to change the setting. To learn about each of the audio and video settings, see **Adjusting TV settings** ➟ **p. 35**.

Playing content from USB storage devices

Only in connected mode, your Home screen has the **Roku Media Player** tile. Otherwise, the Home screen has the **USB Media Player** tile. You can play personal music, video, and photo files from a personal USB flash drive or hard disk connected to the TV's USB port.

To use this feature, make sure your media files are compatible with the Roku/USB Media Player. To see the latest list of supported formats, view **Help** in the Media Player*.

The Roku/USB Media Player displays supported file types only, and hides file types it knows it cannot play.

For more information about playing back your personal videos, music, and photos, go to the following link on the Roku web site:

go.roku.com/rokumediaplayer

* There are many variants of each supported media format. Some variants may not play at all or may have issues or inconsistencies during playback.

Auto player launch

Only in connected mode, you can set your TV to automatically open the Roku Media Player when you connect a USB drive with a recognizable file system (such as FAT16/32, NTFS, HFS+ or EXT2/3). To configure this setting, from the Home screen, navigate to **Settings** > **System** > **USB media**. At this point, the following options are available:

- **Auto-launch** – Choose **Prompt**, **On**, or **Off**, as desired.
  - **Prompt** – (default) Display a prompt each time a recognized USB drive is connected. The prompt provides options to launch the Roku Media Player as well as to change future auto-play behavior.
  - **On** – Always launch the Roku Media Player whenever you connect a recognized USB drive.
  - **Off** – Never launch the Roku Media Player automatically.
- **Launch channel** – Choose the app you want to use to play back media files.

Playing content from local network media servers

Only in connected mode, your TV can play personal video, music, and photo files from a media server on your local network. Media servers include personal computers running media server software such as Plex or Windows Media Player, network file storage systems that have built-in media server software, and other devices that implement the specifications of the Digital Living Network Alliance. Some servers do not fully implement the DLNA specification but are UPNP (Universal Plug and Play) compatible. The Roku Media Player will connect to them as well.

Some media servers can convert files into Roku compatible formats. DRM-protected content is not supported.

Using your TV in a hotel or dorm room

Hotels, school dorms, conference facilities, and similar locations with public wireless Internet access often require you to interact with a web page to authenticate your access. These types or networks are called restricted public networks. When you select a network of this type, the TV automatically detects that additional information is needed and prompts you through using another wireless device to supply the requested information.

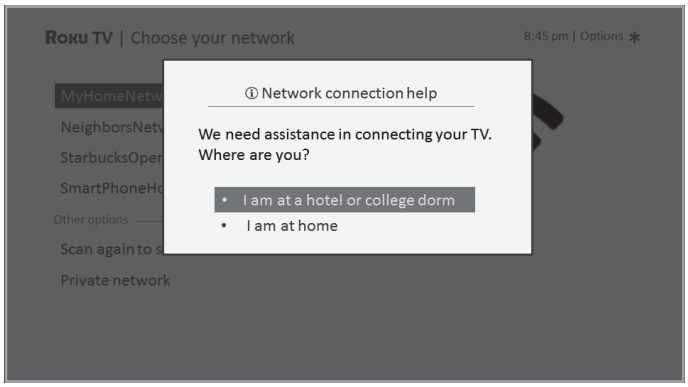
About using your TV on a restricted public network

Here are some points to keep in mind when using your TV on a restricted public network:

- **Using your Roku TV on a hotel or dorm room network requires wireless availability and a network-connected smartphone, tablet, or computer to authenticate access to your wireless access point.**
- **You will need your Roku TV remote.**
- **Some content might be limited or unavailable if you try to connect outside your home country due to geo-filtering.**

Getting your Roku TV on line on a restricted public network

1 Either during Guided Setup or after using the **Settings** > Network menu to set up a new connection, the TV automatically detects that you are connecting to a restricted network and displays the following prompt:



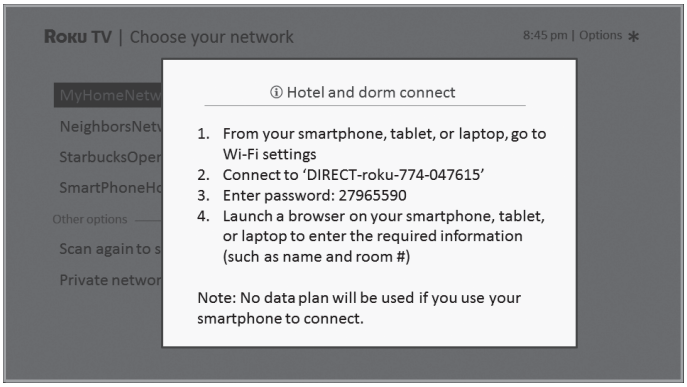
Tip(s)

- Your TV can connect to a restricted network only if Enable 'Device connect' is selected in **Settings** > **System** > **Advanced system settings**. (Device connect is enabled by default, but if you have disabled it, the TV cannot complete the connection.)

Note(s)

- **Device connect** is not present if the TV is in non-connected mode.

2 After selecting the correct network, highlight **I am at a hotel or college dorm**, and then press **OK**. The TV prompts you to use your smartphone, tablet, or laptop to complete the connection.



3 Use a phone, tablet, or wireless-enabled computer to detect wireless networks. In most cases, you can simply open the device's Wi-Fi Settings or Network Settings screen to start scanning.

Note(s)

- The phone, tablet, or computer must be on the same wireless network to which you are connecting the TV.

4 Connect to the network named on your TV screen. The actual network name varies.

Note(s)

- The previous step connects your smartphone, tablet, or computer directly to the TV. No connection charges apply and the connection does not impact your device's data plan.

5 The wireless connection process prompts you for a password. Enter the password as shown on the TV screen. The actual password varies.

6 Start the web browser on your smartphone, tablet, or computer. When you attempt to open any web page, the restricted connection will prompt you for whatever information it needs. In most cases, you must agree to terms and conditions, provide identifying information, or enter a password, PIN, or room number to proceed. The information requested depends on the organization that controls the wireless connection.

7 After you enter the requested information, the TV automatically proceeds to complete its connection and resumes normal operation.

8 If the TV prompts you to link to your Roku account, use your smartphone, tablet, or computer to complete the pairing operation and activate your Roku TV.

Roku voice remotes (select models only)

Only on TVs with the Roku voice remotes: The following topics explain how to get the most out of your TV when it includes a Roku Voice Remote or Roku Enhanced Voice Remote.

Re-pairing your Roku voice remote

The Roku voice remotes operate with wireless radio-frequency signals and must be paired with your TV. You initially paired the remote when you set up your TV during Guided Setup. But if your remote loses its pairing with the TV for some reason, you can easily re-pair it using either of the following methods:

1. Remove the battery cover from the back of the remote.
2. Press and hold down the pairing button for 3 seconds or longer, until the adjacent LED lights up.
3. Do one of the following:
   - Turn on the TV using the power button on the TV side or back panel. Pairing occurs as the TV starts up.
   - Use the Roku mobile app or a different remote to navigate to **Settings** > Remotes & Devices > **Pair new device** > Remote.

Tip(s)

- If the remote fails to pair with the TV, try installing new batteries. Also, it's helpful to hold the remote within two to three feet of the TV to ensure successful pairing.

Checking the Roku voice remote battery level

You can check the condition of the batteries in your Roku voice remote at any time by navigating to **Settings** > Remotes & Devices, and then pressing **OK** to select your remote below My paired devices. With your remote selected, navigate right to About > Remote to view its Battery level. The resulting screen displays not only the battery level, but also other information that can be useful when you need technical support with your remote.

Tip(s)

- When you first turn on the TV, a battery level indicator appears in the upper right corner of the screen for a few seconds.

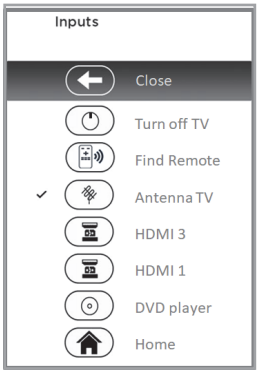
Finding your Roku Enhanced Voice Remote

Only on TVs with the Roku Enhanced Voice Remote, when your remote has found its way down into the sofa cushions or your dog has hidden it in the corner, you can use the Find Remote feature to find out where it's hiding. This feature has a limited range, and is designed to find your Enhanced Voice Remote somewhere in the same room as the TV.

Select **Find Remote** on the **Settings** > **Remotes & Devices** > **Remote** settings menu to see brief instructions on how to activate the Find Remote feature. Note, however, that selecting this option doesn't actually activate the feature. Here are the complete instructions:

Activate Find Remote

- If your TV has a joystick-style control, press to the **Left** or **Right** to open the **Inputs** menu, and then press **Right** to scroll down to Find Remote.
- If your TV has a column of labeled panel buttons, press the **INPUT** button to open the **Inputs** menu, and then press the **INPUT** button again until you highlight **Find Remote**.



A moment or two after highlighting **Find Remote**, the Roku Enhanced Voice Remote starts playing your selected Find Remote sound to let you know where it is hiding. The sound automatically stops after a minute, or after you find the remote and press any button.

Changing and previewing the Enhanced Voice Remote finder sound

Only on TVs with the Roku Enhanced Voice Remote, you can customize the sound your remote makes when you use the Find Remote feature. To customize the sound, navigate to **Settings** > **Remotes & Devices** > **Remote settings** > **Change remote finder sound**. Select the sound you want to use from the available settings.

To preview the sound you have chosen, select **Preview remote** finder sound, and then hold down **OK** on the remote to play the sound. When you release the **OK** button, the sound will stop.

8 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(s)

- 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(s)

- 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.

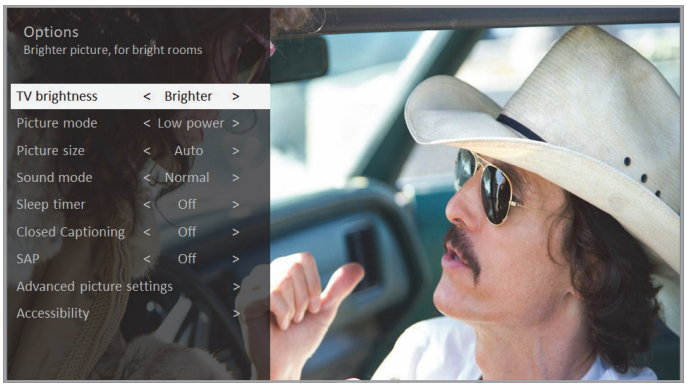
- **Settings per input** – Lists each TV input. Select an input, and then press ✱ to display the **Options** menu where you can adjust the input's settings while watching a live picture and listening to the sound from that input.

Tip(s)

- 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(s)

- 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.
- **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.
- **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 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** – 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(s)

- 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** ➟ **p. 60**.

- **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(s)

- Only in the United States, the **Captioning track** setting is located under **Accessibility**.

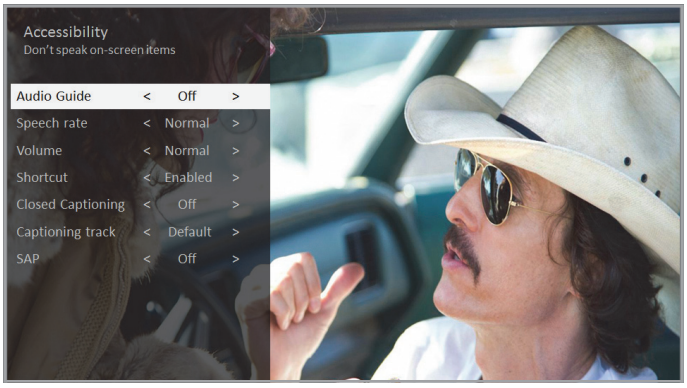
- **SAP** – Selects whether to play a secondary audio program or multichannel television sound, and which choice to play. This setting applies only to Antenna TV on digital channels.
- **Advanced audio settings** – Only on select models: Shows the **Advanced audio settings – DTS TruSurround (select models only)** ➟ **p. 37**
- **Advanced picture settings** – Shows the **Advanced picture settings** ➟ **p. 38**.

Tip(s)

- To dismiss the **Options** menu, just wait a few seconds without pressing any buttons. Or press ✱ again to dismiss the menu immediately.

Accessibility (U.S. only)

Only in the United States, the settings on the **Accessibility** menu enable you to change the TV's accessibility settings without leaving the program you are watching. These settings are also available on the **Home** screen under **Settings** > **Accessibility**.



Accessibility menu settings

- **Audio Guide** – Turn the Audio Guide on or off. The Audio Guide is a text-to-speech screen reader that helps blind and low-vision users navigate the Roku user interface and on screen menus. When enabled, the Audio Guide reads out text, menus, and other on-screen items.

Tip(s)

- If Shortcut is enabled, you can enable or disable the Audio Guide by pressing ✱ four times in quick succession. (The ✱ button is located directly below the directional pad on the right side of the Roku remote.)

- **Speech rate** – Choose the speed at which the TV speaks Audio Guide prompts.
- **Volume** – Set the volume of the Audio Guide in relation to the main TV volume.
- **Shortcut** – Enable or disable the shortcut feature. When disabled, pressing ✱ four times in quick succession does not enable or disable the Audio Guide.
- **Closed captioning** – Controls when you see captions. This setting is only offered for Antenna TV, the AV input, and streaming 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** – 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(s)

- 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** ➟ **p. 60**.

- **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.
- **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.

Video description through Secondary Audio Program (SAP)

Video description is audio descriptions of the action in a program, to help individuals who are blind or visually impaired enjoy the program. You enable video description by selecting one of the Secondary Audio Program (SAP) options.

To hear video description narrations in programs that have them, turn on **SAP**. If there are multiple **SAP** options for a channel, such as **Spanish** and **French**, try each one to determine which setting carries the video description track.

Note(s)

- Broadcasters provide video descriptions only on a small number of programs. If you are unable to hear video descriptions after following these instructions, the program you are viewing does not provide them.

For more details about video description, go to:

https://www.fcc.gov/consumers/guides/video-description.

Advanced audio settings – DTS TruSurround (select models only)

This topic describes the **Advanced audio settings** menu for TV models with DTS TruSurround. Each TV input has separate settings for fine tuning sound quality. All of the settings in this menu apply only to the currently-selected input. To use the **Advanced audio settings** menu, first press ✱ to display the **Options** menu. Then select **Advanced audio settings**.

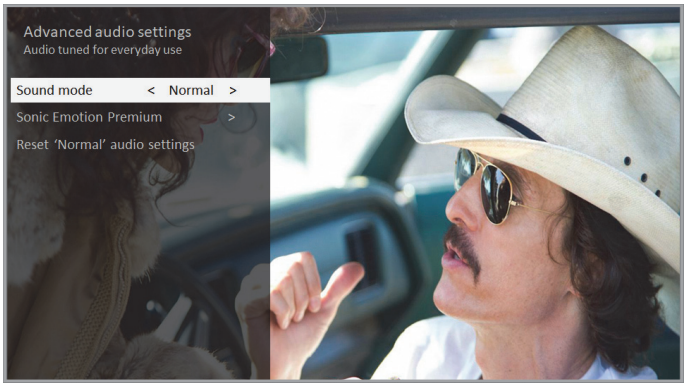
Advanced audio settings menu for models with DTS TruSurround

Advanced audio settings menu options – DTS TruSurround

- **Sound mode** – Select from among various preset sound modes to improve speech, make music sound its best, boost bass or treble, or simulate a theater. Use **Reset audio settings**, described below, to return the input's current settings to their original values.
- **DTS TruSurround** – Simulates surround sound that otherwise would require installation of a surround sound audio system. Sometimes, the effect interferes with dialog clarity. Use the **Dialog clarity** option to compensate.
- **Dialog clarity** – Available only when **DTS TruSurround** is **On**. Choose among **Low**, **Medium**, and **High** settings to improve the clarity of dialog when you are using the **TruSurround** feature.
- **TruVolume** – Minimizes annoying volume fluctuations in programs.
- **Reset audio settings** – Returns **DTS TruSurround**, and **Dialog clarity**, and **TruVolume settings**, to their default settings for the selected **Sound mode**.

Advanced audio settings – Sonic Emotion Premium (select models only)

his topic describes the Advanced audio settings menu for TV models with Sonic Emotion Premium. Sonic Emotion Premium is an audio technology that enables your TV to produce a more immersive sound experience. Each TV input has separate settings for fine tuning sound quality. All of the settings in this menu apply only to the currently-selected input. To use the Advanced audio settings menu, first press ✱ to display the Options menu. Then select Advanced audio settings.



Advanced audio settings menu for models with Sonic Emotion Premium

Advanced audio settings menu options – Sonic Emotion Premium

- **Sound mode** – Select from among various preset sound modes to improve speech, make music sound its best, boost bass or treble, or simulate a theater. Use Reset audio settings, described below, to return the input's current settings to their original values.
- **Sonic Emotion Premium** – Displays a menu with individual Sonic Emotion audio settings, as described in **Sonic Emotion settings** ➟ **p. 38**.
- **Reset audio settings** – Returns Sonic emotion settings to their default settings for the selected Sound mode

Sonic Emotion settings

When you turn on Sonic Emotion from the Advanced audio settings menu, these additional settings become available:

- **Dialog Enhancement** – Enhances your ability to hear and understand dialog in the program.
- **Bass Enhancement** – Enhances the low frequency sound component in the program.
- **Absolute 3D Sound** – Simulates sound from multiple speakers that would otherwise require installation of a surround sound audio system.

Advanced picture settings

The **Advanced picture settings** menu for each TV input provides settings for fine tuning the appearance of the picture. All of the settings in this menu apply only to the currently-selected input.

To use the **Advanced picture settings** menu, first press ✱ to display the **Options** menu. Then select **Advanced picture settings**.

Typical Advanced picture settings menu

Advanced picture settings menu options

- **Picture mode** – Provides picture presets for various viewing preferences. This setting duplicates the one on the **Options** menu. When you change the **Picture mode**, other picture settings adjust accordingly. For example, setting the **Picture mode** to **Vivid** sets **Brightness**, **Contrast**, **Sharpness**, and other values to produce a very vibrant picture. Setting **Picture mode** to **Movie** changes the settings to produce a picture suitable for enjoying movies in a darkened room. If you make changes to the individual picture settings—for example, **Contrast**, or **Sharpness**—these settings are saved for the current input and the current picture mode. In this way, you can set **HDMI 1** input's **Movie** picture mode to use different settings than the **HDMI 2** input's **Movie** picture mode and Antenna TV's **Movie** picture mode. Use **Reset picture settings**, described below, to return the input's selected picture mode to its original values.
- **Local contrast** – Only on select models: Sets the amount of dimming multiple "local" areas of the screen's backlight intensity. This setting can make dark areas darker without affecting the brightness of light areas. This option is disabled when **Game mode** is enabled.
- **Dynamic contrast** – Only on select models: Automatically adjusts the backlight level to achieve the optimum contrast and prevent excessive differences between light and dark areas of the screen. This option is disabled when **Local dimming**/**Local contrast** is enabled.
- **Backlight** - Adjusts the overall light intensity of the screen. On some models, this option is disabled when Dynamic contrast is enabled.
- **Brightness** – Adjusts the dark level of the black areas of the picture.
- **Contrast** – Adjusts the white level of the light areas of the picture.
- **Sharpness** – Adjusts the sharpness of the edges of objects in the picture.
- **Color** – Adjusts the intensity of colors in the picture. A setting of 0 removes all color and displays a black and white picture.
- **Tint** – Adjusts the color balance from green to red to obtain accurate colors in the picture.
- **Color temperature** – Adjusts the overall colors in the picture from **Normal** to slightly more bluish (**Cool**) to slightly more reddish (**Warm**).
- **Action smoothing** – Only on select models: Adjusts the amount of action smoothing applied to the video signal. A higher setting results in more smoothing, but can cause undesirable picture artifacts in certain types of content. Each **Picture mode** has a different **Action smoothing** default setting.
- **Natural Cinema** – Only on select models: When enabled, this feature reduces "judder" that is often present when 24 frame-per-second movies are upscaled to 60Hz TV standards. Natural Cinema mode is On by default in Movie and HDR Dark picture modes, and Off by default in other picture modes. When Natural Cinema mode is On, Action smoothing is turned off and disabled.
- **Action clarity** – Only on select 120Hz models: Reduces blur, especially for fast-moving images such as sports.
- **LED action clarity** – Only on select models: Reduces motion blur caused by LED backlight latency. Enabling this feature inserts black frames between picture frames in a way that improves the clarity of fast movement. It provides an improved viewing experience for video games and sporting events. When LED action clarity is enabled, the Brightness and Dynamic contrast settings are disabled. You can choose settings of Low, Medium, High, or Off to achieve the desired picture quality. Enabling Game mode sets LED action clarity to Medium.

- **Game mode** – Only on HDMI® and AV inputs: Controls whether Game mode is enabled. When **On**, the TV performs less image processing and has less input lag. When **Off**, the TV performs more image processing and has more input lag, which is less desirable for action games.

Note(s)

- If you have paired Roku Wireless Speakers with your TV, enabling Game mode switches sound back to the internal TV speakers to avoid latency or lag in game play. Disabling Game mode switches sound back to the Roku Wireless Speakers.

- **Reset picture settings** – Returns all picture settings for the input's currently-selected **Picture mode** to their original values.

Tip(s)

- To dismiss the **Advanced picture settings** menu, just wait a few seconds without pressing any buttons. Or press ✱ again to dismiss the menu immediately.

Expert Picture Settings (4K models only)

4K (UHD) TV models have additional picture settings for demanding home theater enthusiasts. Expert Picture Settings include gamma, noise reduction, 11 point white balance adjustment, and extended color management.

You can access Expert Picture Settings only by using the Roku Mobile App on an iOS® or Android™ mobile device. For more information, go to the following link on the Roku web site:

go.roku.com/expertpicturesettings

Changing privacy settings

Note(s)

- Privacy settings are not present on TVs operating in non-connected mode.

Advertising

Only in connected mode, by default your TV uses an advertising identifier to track your TV usage. You can change the privacy settings on your TV in two ways: resetting the advertising identifier and limiting ad tracking.

Reset the advertising identifier

Resetting the advertising identifier clears the prior usage history that your TV stores, and then begins tracking again. From that point forward, your new usage patterns affect the advertisements you see on your TV.

1. From the Home screen menu, navigate to **Settings** > **Privacy** > **Advertising**.
2. Highlight **Reset advertising identifier**. Press ✱ to view more information about this option. When you finishing reading the information, press **OK** to close the More Information window.
3. Press **OK** to reset the advertising identifier, and then press **OK** again to dismiss the verification message.

Limit ad tracking

You can limit Roku's tracking of your usage behavior by limiting ad tracking. When you do, your TV will display ads that are not personalized based on your TV's advertising identifier.

1. From the Home screen menu, navigate to **Settings** > **Privacy** > **Advertising**.
2. Highlight **Limit ad tracking**. Press ✱ to view more information about this option. When you finish reading the information, press **OK** to close the More Information window.
3. Press **OK** to select the **Limit ad tracking** check box.

Note(s)

- If you perform a factory reset and then reconnect your TV, ad tracking is restored until you repeat these steps.

Microphone

Your Roku TV does not have a built-in microphone. However streaming channel providers can use the microphone on the Roku voice remotes (only on select models) or on your mobile device when the Roku mobile app is running. You can control whether streaming channels have permission to use the microphone.

Note(s)

- These settings affect only streaming channel access to the microphone. They do not affect your Roku TV's Voice Search feature.

Channel microphone access

You can control which streaming channels have permission to use the microphone, giving you control over how the microphone is used by each streaming channel. The default setting is Prompt, so no channel will be able to turn on the microphone without your permission.

To change microphone access settings:

1. From the Home screen menu, navigate to **Settings** > **Privacy** > **Microphone**.
2. Select **Channel microphone access**.
3. Choose one of the following settings:
   - **Prompt** – Display a notification each time any streaming channel requests the use of the microphone. When a notification appears, you can choose among **Prompt**, **Always allow**, and **Never allow** on a per-channel basis.
   - **Always allow** – Do not prompt, but always allow any streaming channel to use the microphone.
   - **Never allow** – Do not prompt, but never allow any streaming channel to use the microphone.

Channel permissions

After granting or denying microphone access on a per-channel basis, you can reset channel permissions to enable them to follow the system-wide setting you specify under Channel microphone access.

To reset channel permissions:

1. From the Home screen menu, navigate to **Settings** > **Privacy** > **Microphone**.
2. Select **Channel microphone access**.
3. Highlight **Reset channel permissions**, and then press **OK**.

9 My Feed

Only in connected mode, use My Feed to find out when you can watch movies coming soon, and to get updates on movies, TV shows, and actors that you are following.

Movies Coming Soon

My Feed gives you updates on your list of movies that are coming soon to theaters. With My Feed, you'll know when your favorite movie is ready to stream, the channels it is on, and how much it will cost.

Select the movies you want to follow by going to **My Feed** > **Movies Coming Soon**. You'll then see a list of newly released movies that are not yet available on Roku streaming devices. Select a movie, and then select **Follow this movie on Roku**. When you return to the main **My Feed** screen, you'll see banners for each of your newly-followed movies along with banners for movies and TV shows you're already following.

Movies, TV shows, and people

In addition to following movies coming soon, you can follow any movie, TV show, or actor across top streaming channels. To follow a program, use the Search feature to find the movie, TV show, or name that you want to follow, and then select **Follow this movie/TV show/person on Roku**. For more information, see **Searching for something to watch** ➟ **p. 42**.

Note(s)

- The TV takes a bit of time to update your newly-followed shows. Until it finds at least one channel offering the movie, the content banner in My Feed shows **Check back later for updates**.

My Feed alerts you any time a movie or TV show you are following becomes available on another channel and whenever its price changes. A number in parentheses next to My Feed in the Home screen menu means that **My Feed** has updated information that you haven't viewed yet. For example, if three of your followed shows have updates, you'll see **My Feed (3)**.

Note(s)

- When a movie or TV show you are following becomes available, the streaming channel offering the movie might require that you subscribe or pay a fee to view it.

10 Searching for something to watch

Searching for movies and shows across both Antenna TV (only in the United States) and streaming channels is one of the unique features of your Roku TV. Within a single search operation, you can search by:

- Movie name
- TV show name
- Actor or director name
- Streaming channel name
- Game name

Note(s)

- Roku Search is not available if your TV is operating in non-connected mode.
- Roku Search doesn't search across all streaming channels, but searches across lots of popular streaming channels. The actual channels it searches vary by locale.

How do I search?

You can search by using an on-screen keyboard that you navigate using the arrow keys on your remote, or only in the United States, you can use a Roku voice remote or the Roku mobile app to search with your voice.

For more information about Voice Search, go to

go.roku.com/voicesearch

Keyboard search using the remote

1 Select **Search** on the Home screen menu. The **Search** screen has a keyboard grid and initially displays instructions—a set of icons representing search categories and a list of participating provider tiles.

Tip(s)

- If you don't see the instructions, navigate to the end of the list of recent searches and select **Clear recent search selections**.

2 Use the arrow keys to navigate the on-screen keyboard, entering a few characters of the search term. With each additional character you enter, you narrow down the search, making the search results more relevant. You'll often see the results you are seeking after entering only a few letters.

3 When you see the show you are searching for, navigate to the right to highlight it.

Voice Search from a Roku voice remote

Only in the United Stated with models that have a Roku Voice Remote or Roku Enhanced Voice Remote:

1 Press and hold the search button, either or .

2 Say the name of a movie, TV show, actor, or director.

The TV lists the results of your search across many streaming and Antenna TV channels.

An icon next to each search result shows the category of the result (movie, TV show, actor).

3 Press the **Right** arrow to move the highlight into the list of search results.

4 Press the **Up** and **Down** arrows to scroll through the list of search results to highlight the item you want to view.

Searching from the Roku mobile app

Use the free Roku mobile app on your compatible smartphone or tablet to make searching even faster. Use your mobile device's keypad to type more quickly and easily than with the on-screen keyboard on your TV. Only in the United States, you also can search simply by touching the Voice Search icon and saying the name of the movie, TV show, actor or director, streaming channel, or game.

When you use the Roku mobile app to search, search results are shown on your mobile device instead of on the TV screen. When you make a selection from the search results, the TV starts playing the selected program. For more information, see **Getting and using the Roku mobile app ➟ p. 60**.

I found a show, now what?

Now that you've highlighted the show, movie, actor, game, or streaming channel you were looking for, press the **Right** arrow.

If your search result was an actor, director, or other item that does not represent a single item of content, you'll see another list to narrow down your search. Continue highlighting results and pressing the **Right** arrow until you find a single, viewable content item.

- The channel logo appears to the left of each result.
- Only in the United States, a LIVE TV logo indicates a program that is available on Antenna TV. Shows currently playing live appear at the top of the list. Shows airing in the future appear at the bottom of the list. Selecting a LIVE TV result switches the TV to that channel regardless of whether the program is currently in progress.
- An **HD** logo means that the content is available in high-definition.
- The checked circle adjacent to the title means you have already added the streaming channel.

If your search result was a game or a streaming channel, you'll see detailed information, images, and available actions, such as a list of streaming channels and the cost of getting the item or channel.

Note(s)

- Some channels may require a paid subscription.

Follow on Roku

Rather than watch the show you found in Search, you can add it to My Feed and wait until it's available on a particular streaming channel or available at a better price. From the search results screen, select **Follow on Roku**. Then go to **My Feed** periodically to check for updates to each of your followed movies, TV shows, or people. For more information, see **My Feed** ➟ **p. 41**.

Recent Searches

he next time you use Roku Search, the **Search** screen displays a list of recent search selections in place of the search instructions.

Using the recent search selections list makes it easy to quickly get to a previously found item, for example, to find another movie with the same actor, or another TV show in the same series.

11 Using the Roku Channel Store

Only in connected mode, the **Streaming Channels** menu option takes you to the Roku Channel store, where you can add new subscription based and free streaming channels to your TV.

Tip(s)

- You also can search for streaming channels by using the Search option, as explained in **Searching for something to watch** ➡ **p. 42**.

To make it easier to find what you want, the streaming channels in the Roku Channel Store are categorized by topic. Press the **Up** and **Down** arrows to highlight the category you want, and then press the **Right** arrow to move the highlight into the grid of streaming channel tiles.

When you find a streaming channel you want to add or learn more about, highlight it and press **OK** to display more details.

- If the streaming channel you are adding is free, you can select **Go to channel** to start watching it immediately.
- If there is a one-time or recurring fee associated with using the streaming channel, you must agree to the terms and conditions, accept the fee, and—if you created one when you activated your Roku TV, enter your Roku PIN code to authorize the charges.
- If you already have a subscription to the streaming channel—for example, you already subscribe to Netflix or you receive HBO through your cable TV provider—you must complete a different, simple authorization step to add the streaming channel.

You need only complete the authorization or activation step one time, when you initially add the streaming channel. After that, you simply select the streaming channel tile from your Home screen to start watching. (Channel and content availability is subject to change. Charges may apply to your selection.)

Tip(s)

- New streaming channels are added continuously to the Roku Channel Store, so be sure to check back every now and then for new options.

Note(s)

- If you don't remember your PIN, or if want to change whether you need to use a PIN to make purchases on your Roku account, see **Changing your Roku Channel Store PIN preference** ➡ **p. 57**.

12 Customizing your TV

There are several things you can do to personalize your TV.

Add TV inputs

As you use your TV, you might find that you need to add a TV input tile that you did not add during Guided Setup. To add a TV input:

1. From the Home screen menu, navigate to **Settings** > TV inputs. Notice that the list of inputs is divided into two sections: Inputs being used and Inputs not used.
2. Press the **UP** or **DOWN** arrows to highlight an input in the Inputs not used section of the list.
3. Press the **RIGHT** arrow to move the highlight to Set up input.
4. Press **OK** to add the input.
5. Press ⌂ to return to the Home screen. Notice that the input has been added to the top of the Home screen. If you want to move the input tile to a different position in the grid, see **Rearrange tiles** ➟ **p. 45**.

Add streaming channels

You can add streaming channels by searching in the Roku Channel Store. New streaming channels are added to the bottom of the Home screen. If you want to move the channel tile to a different position in the grid, see **Rearrange tiles** ➟ **p. 45**.

Rename inputs

Rather than trying to remember that your Blu-ray™ player is connected to **HDMI 1** and your game console is connected to **HDMI 3**, you can rename the TV inputs to match the connected device.

Note(s)

- Renaming an input also changes the icon associated with it.

To rename an input, you can either:

- Highlight the input tile in the Home screen, and then press ✱ to display a list of options. From the list of options, select Rename input. Then select a new name and icon.

or

- From the Home screen, navigate to **Settings** > TV inputs. On the TV inputs screen, select the input you want to rename, select Rename, and then choose a new name and icon from the provided list.

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.

Press ⌂ to return to the Home screen. The new name and icon are now in effect.

Remove unwanted tiles

It's easy to remove unused TV inputs and unwanted channel or app tiles. For example, if you never use the **HDMI 3** input, or if you don't like the weather app you added from the Roku Channel Store, you can remove them from your Home screen.

Note(s)

- You also can remove the Antenna TV tile if you never use the TV tuner. But be aware that removing the Antenna TV tile also deletes the channel list. You'll have to set up the TV tuner again next time you want to view Antenna TV. Instructions for setting up the TV tuner can be found in **Setting up Antenna TV** ➟ **p. 23**.

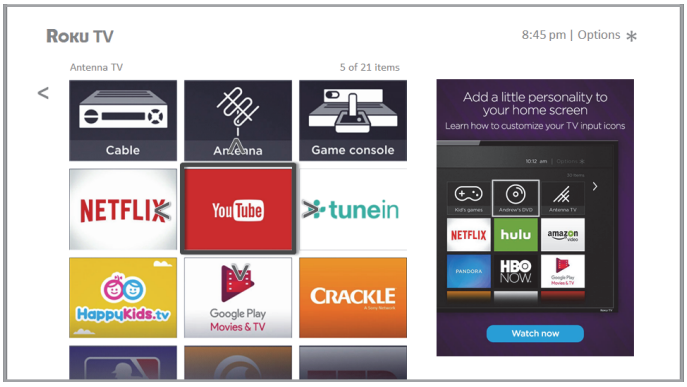
- To remove any tile, highlight the input tile in the Home screen, and then press ✱ to display a list of options. From the list of options, select Remove input. In the screen that follows, confirm you want to remove the input.
- Alternatively, to remove a TV input tile from the Home screen, navigate to **Settings** > TV inputs. On the TV inputs screen, select the input you want to remove, and then select Remove > Confirm. Then press ⌂ to return to the Home screen.

Rearrange tiles

When you add a TV input tile, it's added at the top of your Home screen. When you add a new streaming channel, it's added at the bottom of your Home screen.

You can easily rearrange the order of the tiles on the Home screen to suit your viewing preferences. For example, you might want **Antenna TV** to be the first tile in your Home screen. But if you mostly watch one streaming channel, you might want its tile to be the first one on your Home screen.

1. From the Home screen, highlight one of the tiles you want to move.
2. Press ✱ to display a list of options for the type of tile you selected.
3. Select **Move input or Move channel**. The list of options disappears and the highlighted tile shows arrows indicating how it can be moved.



Note(s)

- 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 RokuR products are sold.

4 Use the arrow keys to move the highlighted tile to its new position. As you move the tile, it pushes other tiles out of its way.

5 Press **OK** to lock the tile into its new position.

6 Repeat these steps to move other tiles until you have arranged your Home screen to your liking.

Change themes

Only in connected mode, another way to customize your TV is to change its theme. The theme establishes the look and feel of the TV through colors, designs, and fonts. Some themes require payment.

To change the theme, in the Home screen menu navigate to **Settings** > Themes. In the Themes screen, choose from the following options:

- **My themes** – Highlight a theme, and then press **OK** to switch to that theme.
- **Get more themes** – Highlight this option at the bottom of the My Themes list, and then press **OK** to shop for new themes.
- **Custom settings** – Turn Featured themes on or off. When Featured themes is on, the TV automatically switches to featured themes–like certain holiday-inspired themes –for a limited time whenever Roku makes them available, and then switches back to your selected theme when the featured theme expires. When off, the TV uses your selected theme.

Edit Antenna TV channel lineup

When you set up the TV tuner as described in **Setting up Antenna TV** ➟ **p. 23**, the TV adds all the channels with good signals that it can detect in your area. It's likely that you now have more channels than you want in your channel list.

To edit the channel lineup, from the Home screen, navigate to **Settings** > **TV inputs** > **Antenna TV** > **Edit channel lineup**. You'll see a screen listing all of your channels. Adjacent to the list of channels is a miniature TV screen playing the highlighted channel's picture and sound.

Highlight each channel you want to hide, and then press **OK** to hide the channel.

Tip(s)

- If you need to see or hear the highlighted channel, wait a couple of seconds for the TV to start playing the channel's picture and sound. Also note that if you've enabled parental controls and the program on the current channel is blocked, you won't see a picture or hear sound while editing the channel lineup.

Change volume

Menu sounds are the noises the TV makes to let you know it received your command. You can change the volume of these menu sounds or turn them off.

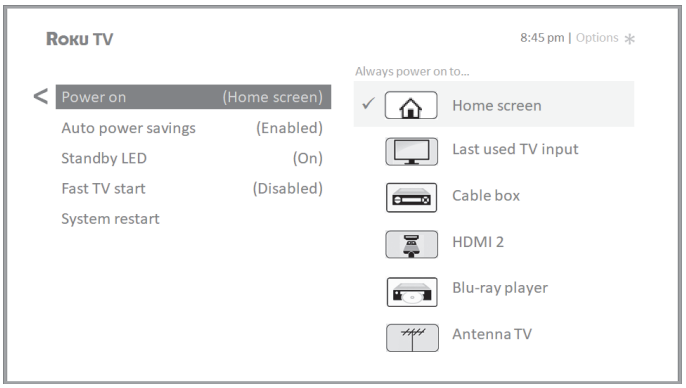
To adjust the menu volume, in the Home screen menu, navigate to **Settings** > **Audio** > **Menu volume**. Navigate to the right and then change the setting to **High**, **Medium**, **Low**, or **Off**.

Configure power settings

Power settings let you configure features related to how your TV's power settings work.

Power on settings

Power on settings tell the TV what to do when you turn on the power. To configure the power on settings, from the Home screen, navigate to **Settings** > **System** > **Power** > **Power on**. Highlight the preferred power on location in the list, and then press **OK**.



Auto power savings

To help you save energy, your TV can automatically turn itself off after a period of inactivity or a period during which no signal has been detected. It is factory-configured to do both of these things, but you can change these settings if needed.

To configure automatic power off, from the Home screen menu navigate to **Settings** > **System** > **Power** > **Auto power savings**. In the **Power settings** screen, highlight the following options and press **OK** to turn them on or off:

- **Reduce power after 15 minutes** – If no video or audio activity and no user interaction occur for 15 minutes, the TV automatically turns off the screen and sound.
- **Turn off after 4 hours** – If no video or audio activity and no user interaction occur for 4 hours, the TV goes into standby mode

Standby LED On/Off

Normally, the status indicator is lit whenever the TV is in standby mode. If you prefer the status indicator to not be lit in standby mode, you can turn it off. To do so, from the Home screen, navigate to **Settings** > **System** > **Power** > **Standby LED**, and then select **Off**.

After making this change, the status indicator still performs all other indication functions.

Fast TV start

Only in connected mode on TV models that are not Energy Star certified, you can enable Fast TV start. As you might expect, Fast TV start lets you start watching your TV almost instantly after turning it on. But it also enables other convenient features, such as the ability to turn on your TV using voice commands or the Roku mobile app.

Be aware that enabling Fast TV start makes your TV use somewhat more power when it is powered off to standby mode.

Configure accessibility (U.S. only)

Accessibility settings enable users with vision or hearing impairment to use the TV more effectively. Accessibility settings are located under **Settings** > **Accessibility**.

Captions mode

The Captions mode settings specify when closed captions appear. Access caption settings from the Home screen by selecting **Settings** > **Accessibility** > **Captions mode**. At this point, you can choose among the following options:

- **Off** – No captions appear.
- **On always** – Captions appear whenever they are available from the program source.
- **On replay** – Captions appear only when you use the replay feature, and only when you are watching a streaming program that supports instant replay or watching a TV channel after enabling Live TV Pause.
- **On mute** – Captions appear only when the TV is muted.

Tip(s)

- You can change the captions mode while watching a program. Press ✱ to display the **Options** menu, and then select **Closed Captioning**.
- Some streaming channels require you to enable captions through a setting within their channel even though you have turned on captions in the TV settings.

Note(s)

- Once enabled, the selected captions mode applies to all inputs that support captions and remains enabled until you turn it off.

Captions preferred language

The Captions preferred language setting lets you select the language in which you want closed captioning to appear, when that language is available. If your preferred language is not available, then captioning reverts to the default language for the program, which usually is English.

Highlight the language you prefer, and then press **OK** to select it.

Captions style

- The Captions style settings let you control how closed captions look when displayed on your TV. Access caption style settings from the **Home** screen by selecting **Settings** > **Accessibility** > **Captions style**. At this point, you can choose among the following options:
- **Text style** – Choose from a list of fonts. As you move the highlight to each font, you can see a sample of the result in an adjacent panel.
- **Text edge effect** – Choose from a list of edge effect styles, such as raised, depressed, and various shadows. As you move the highlight to each effect, you can see a sample of the result in an adjacent panel.
- **Text size** – Choose from a list of sizes. As you move the highlight to each size, you can see a sample of the result in an adjacent panel.
- **Text color** – Choose from a list of colors for the text. As you move the highlight to each color, you can see a sample of the result in an adjacent panel.
- **Text opacity** – Choose from a list of opacity settings for the text. This setting determines how much the area behind the text shows through the text. A value of 100% blocks all of the content behind the text. As you move the highlight to each setting, you can see a sample of the result in an adjacent panel.
- **Background color** – Choose from a list of colors for the background area behind the text. As you move the highlight to each color, you can see a sample of the result in an adjacent panel. Note that you won't see any change unless you set the **Background opacity** to a value other than **Off**.
- **Background opacity** – Choose from a list of opacity settings for the background of the caption. This setting determines how much the area behind the caption background shows through the background. A value of 100% blocks all of the content behind the background. As you move the highlight to each setting, you can see a sample of the result in an adjacent panel.
- **Window color** – Choose from a list of colors for the window rectangle surrounding the entire caption. As you move the highlight to each color, you can see a sample of the result in an adjacent panel. Note that you won't see any change unless you set the **Window opacity** to a value other than **Default** or **Off**.
- **Window opacity** – Choose from a list of opacity settings for the window rectangle surrounding the entire caption. This setting determines how much the area behind the caption window shows through the window. A value of 100% blocks all of the content behind the window. As you move the highlight to each setting, you can see a sample of the result in an adjacent panel.

Audio Guide settings

- Audio Guide settings help users who are blind or visually impaired to configure the text-to-speech reader, enabling them to operate their TV more easily. Audio Guide uses voice prompts that speak volume and channel changes, menu options, and setting changes. Access Audio Guide settings from the **Home** screen by navigating to **Settings** > **Accessibility**, and then select from the following options in the **Audio Guide** section:
- **Audio Guide** – Turn Audio Guide on or off.
- **Speech rate** – Select one of four speeds at which to hear spoken guide information: **Slow**, **Normal**, **Fast**, or **Very Fast**.
- **Volume** – Select the volume at which to hear spoken guide information, relative to the main TV volume.
- **Shortcut** – Enable or disable the shortcut feature. When enabled (the default), pressing ✱ four times in quick succession enables or disables the Audio Guide.

Changing caption settings (Canada only)

- On models sold in the United States, you can find caption settings under **Settings** > **Accessibility** > **Captions mode** and **Captions style**. On models sold in Canada, you can find captions settings under **Settings** > **Captions**.

Captions mode

- **Off** – No captions appear.
- **On** – Captions appear whenever they are available from the program source.
- **Instant replay** – Captions appear only when you use the replay option, and only when you are watching a streaming program that supports instant replay.
- **When mute** – Captions appear only when the TV is muted.

Tip(s)

- You can change the captions mode while watching a program. Press ✱ to display the **Options** menu, and then select **Closed Captioning**.
- Some streaming channels require you to enable captions through a setting within their channel even though you have turned on captions everywhere else.

Note(s)

- Once enabled, the captions mode applies to all inputs that support captions and remains enabled until you turn it off.

Captions preferred language

Choose the language in which you want closed captioning to appear, when that language is available. If your preferred language is not available, then captioning reverts to the default language for the program, which usually is English.

Highlight the language you prefer, and then press **OK** to select it.

Other caption settings

- **Text style** – Choose from a list of fonts. As you move the highlight to each font, you can see a sample of the result in an adjacent panel.
- **Text edge effect** – Choose from a list of edge effect styles, such as raised, depressed, and various shadows. As you move the highlight to each effect, you can see a sample of the result in an adjacent panel.
- **Text size** – Choose from a list of sizes. As you move the highlight to each size, you can see a sample of the result in an adjacent panel.
- **Text color** – Choose from a list of colors for the text. As you move the highlight to each color, you can see a sample of the result in an adjacent panel.
- **Text opacity** – Choose from a list of opacity settings for the text. This setting determines how much the area behind the text shows through the text. A value of 100% blocks all of the content behind the text. As you move the highlight to each setting, you can see a sample of the result in an adjacent panel.
- **Background color** – Choose from a list of colors for the background area behind the text. As you move the highlight to each color, you can see a sample of the result in an adjacent panel. Note that you won't see any change unless you set the Background opacity to a value other than **Off**.
- **Background opacity** – Choose from a list of opacity settings for the background of the caption. This setting determines how much the area behind the caption background shows through the background. A value of 100% blocks all of the content behind the background. As you move the highlight to each setting, you can see a sample of the result in an adjacent panel.
- **Window color** – Choose from a list of colors for the window rectangle surrounding the entire caption. As you move the highlight to each color, you can see a sample of the result in an adjacent panel. Note that you won't see any change unless you set the Window opacity to a value other than **Default** or **Off**.
- **Window opacity** – Choose from a list of opacity settings for the window rectangle surrounding the entire caption. This setting determines how much the area behind the caption window shows through the window. A value of 100% blocks all of the content behind the window. As you move the highlight to each setting, you can see a sample of the result in an adjacent panel.

Configuring parental controls

Parental controls enable you to control whether the members of your household can view certain kinds of broadcast TV programs. When a program or feature is blocked, you can unblock it by entering a parental control PIN that only you know.

Note(s)

- Parental controls block content from the TV tuner and from streaming options, if any, on the Home screen menu. Parental controls do not block content on other TV inputs or content from streaming channels you add to your TV.

Creating a parental control PIN

The first time you access the **Parental controls** screen, you must create a new parental control PIN. Thereafter, whenever you want to change parental control settings, unblock programming that has been blocked, change the PIN, or disable parental controls, you must enter your parental control PIN.

Tip(s)

- Your parental control PIN has nothing to do with your Roku PIN. You can make them the same if you want—this is entirely your choice.

To create a new parental control PIN, from the Home screen menu navigate to **Settings** > **Parental controls**. The screen displays a numeric keypad. Use the arrow keys and then press **OK** to enter a four digit code. Then repeat the process to enter the same PIN again, just to make sure you correctly entered the PIN you want to use.

Important : If you forget your parental control PIN, the only way to recover is to perform a factory reset operation, as explained in **Factory reset everything** ➟ **p. 57**. Be sure to write it down in a safe place just in case.

Blocking Featured Free or Movie Store and TV Store (U.S. only)

One of the parental control options is to completely hide the entertainment options that are available directly on the Home screen menu.

To hide Home screen entertainment options:

1. From the Home screen menu, navigate to **Settings** > **Parental controls**, and then enter your parental control PIN.
2. In the **Parental controls** screen, highlight Home screen and then select or clear either of these options:
   - **Hide 'Featured Free'** – Removes the Featured Free option from the Home screen menu.
   - **Hide 'Movie Store and TV Store'** – Removes the **Movie Store** and **TV Store** options from the Home screen menu.

Tip(s)

- To use either of these options after you've hidden them, you must return to this screen and remove the check mark from the corresponding **Hide** command.

Blocking Broadcast TV shows

For broadcast TV, parental controls use information embedded in the broadcast signal to determine whether to allow a program to be displayed. Parents can configure parental controls to block broadcast TV programs that meet or exceed a specific rating, so they cannot be viewed or heard unless the correct parental control PIN is entered

Note(s)

- Rating standards differ by country.

Enabling parental control of TV shows

The first step in blocking TV shows is to enable parental control of TV shows.

This setting is provided separately to make it easier for you to turn parental control of TV shows on and off without disturbing their settings. For example, your kids are going to summer camp for two weeks, and while they are gone, you don't want to have to deal with unblocking shows that you want to watch by entering your parental control PIN. All you need to do is clear **Enable parental controls**, and all TV shows are unblocked. When the kids return, select **Enable parental controls** again, and all of your parental control settings are restored in a single operation.

To enable parental control of TV shows:

1. In the Home screen menu, navigate to **Settings** > **Parental controls**, and then enter your parental control PIN.
2. In the **Parental controls** screen, navigate to **TV tuner** > **Parental control of TV shows**.
3. Make sure the check box next to **Enable parental controls** is checked. If not, highlight it and press **OK**.

Blocking based on US TV ratings

Most broadcast US TV shows—other than movies—contain rating data that enables parental controls to block shows that parents don't want others to view. The ratings are divided into two groups that function independently:

- **Youth group** – TV-Y, TV-Y7
- **Main group** – TV-G, TV-PG, TV-14, TV-MA

Within each of these groups, the ratings interact such that if you block a particular level of content, the TV also blocks all content with a higher rating. Conversely, if you unblock a particular level of content, the TV also unblocks all content with a lower rating. For example, if you block TV-PG programs, the TV also blocks TV-14 and TV-MA programs. If you subsequently unblock TV-14 programs, TV-PG programs are also unblocked, but TV-MA programs remain blocked.

Similarly, within the main group, content types can be individually blocked. For example, you can block just coarse language in shows with a TV-PG rating. If you do, then the TV also blocks shows with coarse language in the higher ratings (TV-14 and TV-MA). Subsequently unblocking coarse language in TV-14 ratings does not unblock coarse language in TV-MA programs, but it does unblock coarse language in TV-PG programs.

To block TV shows based on US television ratings:

1. From the Home screen menu, navigate to **Settings** > **Parental controls**, and then enter your parental control PIN.
2. In the **Parental controls** screen, navigate to **TV tuner** > **TV ratings**. Choose among the following settings:
   - **Entire ratings** – Highlight the rating you want to block, and then navigate to the right and select the first option that blocks the entire rating level (and all higher rating levels).
   - **Individual content types** – Highlight the rating that contains the content type you want to block, and then select the content types you want to block from among those listed. Remember that blocking a content type in one rating blocks the equivalent content type in all higher rating levels.

Blocking based on US movie ratings

Most movies in the US are rated by the Motion Picture Association of America, or MPAA, so the ratings are known as MPAA ratings. TV broadcast signals carry movie rating data that enables parental controls to block shows that parents don't want others to see. The ratings are:

- G – General audiences
- PG – Parental guidance suggested
- PG-13 – Parents strongly cautioned for children age 13 or younger
- R – Restricted
- NC-17 – Not for age 17 or younger

Unlike US TV ratings, there are no individual content types within the ratings. But like TV ratings, blocking movies with a particular rating also blocks movies with a higher rating, and unblocking movies with a particular rating also unblocks movies with a lower rating.

Tip(s)

- Blocking movies with an NC-17 rating also blocks programs with the now-obsolete X rating, which can still occur in the program data of older movies.

To block movies based on MPAA ratings:

1 From the Home screen menu, navigate to **Settings** > **Parental controls**, and then enter your parental control PIN.

2 In the **Parental controls** screen, navigate to **TV Tuner** > **Movie ratings**.

3 Select the rating level you want to block. You need only select one rating level, and all higher levels are automatically blocked.

Blocking based on Other ratings

Your TV can block programs having ratings that had not been defined when the TV was manufactured. It does this by detecting a new Rating Region Table in a program and then downloading the new table and displaying its rating in the Parental controls.

When the TV downloads a new Rating Region Table, it adds a new option to the list of rating types: **Other ratings**. If you see this option in the **Parental controls** screen, you have tuned to a station that has implemented a new rating table. Once the new rating table has been downloaded to the TV, it remains in the TV until it is factory reset, and you can configure blocking based on the new ratings.

New Region Rating Tables can have independent rating levels, or rating levels that interact in the same ways as the built-in US TV and MPAA Movie ratings.

Tip(s)

- If your TV downloads a new Region Rating Table, you'll have to experiment with its settings to understand how to use it.

Blocking based on Canadian English ratings

Canadian-English language and third-language programs that are broadcast in Canada are rated by the Action Group on Violence on Television, or AGVOT. TV broadcast signals carry rating data that enables parental controls to block shows that parents don't want others to view based on content containing violence, language, sex, or nudity. The ratings are:

- C – Children under 8 years
- C8 – Children 8 years and older
- G – Generally suitable for all age groups
- PG – Parental guidance suggested for viewers under 14 years
- 14+ – Generally not suitable for viewers under 14 years
- 18+ – Generally not suitable for viewers under 18 years

Blocking content with a particular rating also blocks content with a higher rating, and unblocking content with a particular rating also unblocks movies with a lower rating.

To block programs based on AGVOT ratings:

1 From the Home screen menu, navigate to **Settings** > **Parental controls**, and then enter your parental control PIN.

2 In the **Parental controls** screen, navigate to **TV tuner** > **Canadian English ratings**.

3 Select the rating level you want to block. You need only select one rating level, and all higher levels are automatically blocked.

Blocking based on Canadian French ratings

Canadian-French language programs that are broadcast in Canada are rated by the Regie du cinema du Quebec. TV broadcast signals carry rating data that enables parental controls to block shows that parents don't want others to view based on content containing violence, language, sex, or nudity. The ratings are:

- G – Generally suitable for all age groups
- 8+ – Viewers 8 years and older
- 13+ – Viewers 13 years and older
- 16+ – Viewers 16 years and older
- 18+ – Adults only

Blocking content with a particular rating also blocks content with a higher rating, and unblocking content with a particular rating also unblocks movies with a lower rating.

To block programs based on Canadian-French ratings:

1 From the Home screen menu, navigate to **Settings** > **Parental controls**, and then enter your parental control PIN.

2 In the **Parental controls** screen, navigate to **TV tuner** > **Canadian French ratings**.

3 Select the rating level you want to block. You need only select one rating level, and all higher levels are automatically blocked.

Blocking unrated programs

Some broadcast TV shows and movies do not have an assigned rating, and are considered to be "Unrated". Whether or not such programs contain content that is objectionable to you cannot be determined. However, you can choose to block such programs.

To block all unrated broadcasts:

1 From the Home screen menu, navigate to **Settings** > **Parental controls**, and then enter your parental control PIN.

2 In the **Parental controls** screen, navigate to **TV tuner** > **Block all unrated programs**.

3 Highlight **Unrated programs** and press **OK**. When blocking is enabled, the adjacent padlock icon changes from unlocked to locked.

Tip(s)

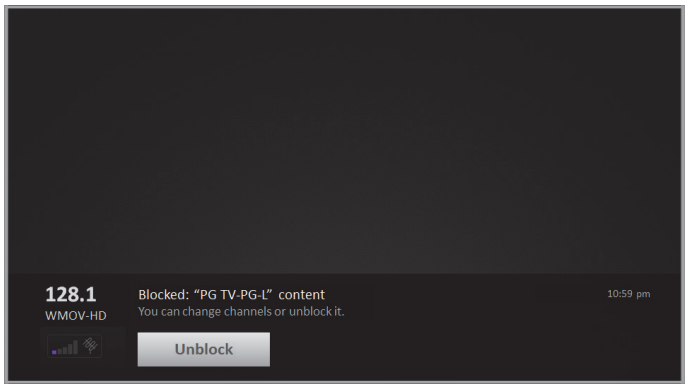
- Blocking programs that have not been assigned a rating does not block programs that specifically have been assigned a US TV rating of "None" (for example a broadcast of a local town council meeting). Programs that do not have an assigned rating display **Rating NA** (for "not applicable," meaning a rating is not needed).
- In the absence of other ratings for a program, the parental controls do not consider the MPAA US movie rating N/A (MPAA rating not applicable to this content) and NR (applicable content not rated by the MPAA) to be ratings. In these cases, the TV handles the program as though it is unrated, blocking the program if Unrated programs blocking is enabled.

What happens when a TV show is blocked?

After you've set up parental controls, TV shows and movies can be blocked:

- When you change channels and the new channel is playing a program whose rating exceeds your settings.
- When a new show comes on the channel you are watching and its rating exceeds your settings.

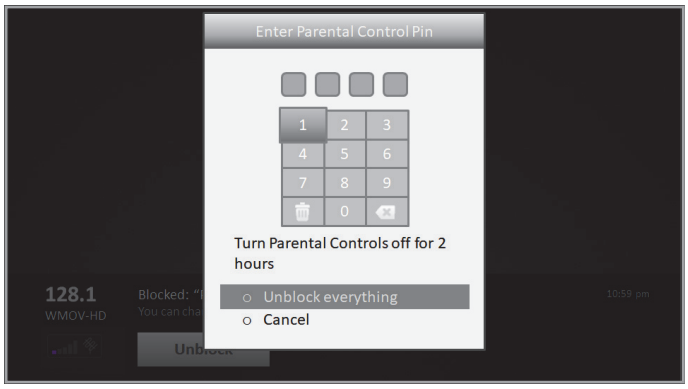
When a program is blocked by parental control settings, the TV displays a blocked message:



Whenever this blocked message appears, both the video and audio of the show are blocked, as well as program data that would normally appear in the area at the bottom of the screen.

To watch the blocked program, you need to know the PIN code defined when you enabled parental controls, as explained in **Creating a parental control PIN** ➟ **p. 49**.

1 Press **OK** to select **Unblock** and display a PIN pad.



2 Use the arrow keys to enter your parental control PIN code, and then press **OK** to select **Unblock everything**.

After unblocking shows that have been blocked, all blocking is disabled for two hours or until you turn off the TV.

Changing the parental control PIN

To change your parental control PIN:

1 From the Home screen menu, navigate to **Settings** > **Parental controls**, and then enter your parental control PIN.

2 In the **Parental controls** screen, highlight **Change PIN**.

3 Move the highlight into the adjacent keypad, and then use the arrow keys and then press **OK** to enter a four digit code. Then repeat the process to enter the same PIN again, just to make sure you correctly entered the PIN you want to use.

Resetting parental controls

So now your kids have grown up and gone away to college, and you no longer want to deal with blocked programs.

To erase all parental control settings:

1 From the Home screen menu, navigate to **Settings** > **Parental controls**, and then enter your parental control PIN.

2 In the **Parental controls** screen, highlight **Reset parental controls**.

3 Follow the instructions on the screen to confirm that you want to erase all parental control settings.

Tip(s)

- Resetting parental controls also erases your parental control PIN.

13 More settings

This section describes the features and settings of the TV that were not covered in the other parts of this guide.

Changing network settings

If needed, you can change your network settings at any time. For example, if you change the name of your wireless network (its SSID) or its password, you will need to change your TV's settings so that it can continue to connect. Also, if you decided not to connect to the Internet in **Guided Setup** ➟ **p. 16**, you can use network settings to connect at a later time.

To change network settings, from the Home screen menu, navigate to **Settings** > **Network**, and then press the **Right** arrow. At this point, you can choose the following options:

- **About** – Lists important information about your current network connection, such as status, connection type, IP addresses, and MAC address. This information is often useful when contacting customer support with connection issues.
- **Check connection** – Select your existing network connection type, and then press **OK** to start checking the network connection. The TV uses your current network information to reconfirm the wireless or wired network connection to the local network and the Internet connection.
- **Set up connection** – Select a network connection type, and then select the option to set up a new connection. Follow the on-screen instructions to complete the network connection. For help with each of the steps, see **Network connection** ➟ **p. 17**.

Note(s)

- Some networks, such as those found in dorm rooms, hotels, and other public places, may require you to read and agree to terms, enter a code, or provide identifying information before letting you connect to the Internet. For more information, see **Using your TV in a hotel or dorm room** ➟ **p. 33**.

Changing ZIP Code

Only in connected mode, your TV needs to know your ZIP Code so that it can display the correct channels and program guide information. It attempts to determine your ZIP Code by using information from your Internet connection; however, the information available from this source is not always accurate. To ensure you have the most accurate program guide information, use the ZIP Code option to enter your correct ZIP Code.

To set your correct ZIP code, from the Home screen menu, navigate to **Settings** > **System** > ZIP Code, and then pressing the **RIGHT** arrow. Use the on-screen number pad to select each of the digits of your ZIP Code, and then select **OK**.

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 the 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** ➟ **p. 35**. 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** ➟ **p. 23**. 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.

Scanning for Antenna TV channels again

There will be times when you need to create a new channel list. For example, you:

- Change cable providers
- Reorient your TV antenna
- Move to a different city with different channels

Whenever you need to update your TV channel list, you can repeat the channel scan.

Tip(s)

- 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.

Note(s)

- Repeating the tuner channel scan unhides all hidden channels.

To repeat the channel scan, from the Home screen menu, navigate to **Settings** > **TV inputs** > **Antenna TV** > **Scan again for channels**. Then select **Start finding channels** to begin the channel scan process. The screens and options that appear during this process are identical to those described in **How do I set up the TV tuner? ➠ p. 23**.

Setting the HDMI® mode (4K models only)

On 4K (UHD) models TVs, you can independently configure each HDMI® input to match the capabilities of the connected device. From the Home screen menu, navigate to **Settings** > **TV inputs**, and then select an enabled HDMI® input. Next, select **HDMI mode** and then select one of the following settings:

- **Auto** – Let the TV determine the best setting. Use this option unless your HDMIR device does not correctly communicate its HDMIR version compatibility.
- **HDMI 1.4** – Configure the input for compatibility with HDMI® version 1.4, which supports a maximum refresh rate of 30 Hz at full UHD resolution. Most HDMI® devices will work correctly with the TV in this mode.
- **HDMI 2.0** – Configure the input for compatibility with HDMI® version 2.0, which supports a maximum refresh rate of 60 Hz at full UHD resolution. You must use this mode to view HDR content from the device connected to this HDMI® input. However, note that many older HDMI® devices do not work correctly when the TV's HDMI® input is set to this mode.

Adjusting external device connections

You can choose the level of control you want to allow your TV to accept from external devices, such as smart phones, tablets, and virtual assistants. Device connect settings enable other devices, including the Roku Mobile App, to control your TV over the local area network in your home.

To adjust the level of external control access:

1. From the Home screen menu, navigate to **Settings** > **System** > **Advanced system settings** > **Control** by mobile apps.
2. Select Network access.
3. Choose one of the following settings:

- **Default** – Devices can connect only through a private network address, and accept commands only from other private network addresses on your home network. This setting is suitable for most cases, including use of the Roku mobile app on your smartphone.
- **Permissive** – Devices can connect under all conditions, but accept commands only from private network addresses or the same subnetwork within your home network. This setting might be required when attempting to operate the TV from a third-party application, for example, one of the Internet of Things (IoT) applications such as ifttt.com.
- **Disabled** – Device connection is completely disabled. The TV does not accept external commands from any source, including the Roku mobile app.

Using Roku Wireless Speakers

Your Roku TV works with Roku Wireless Speakers, and setup is simple. Just plug the speakers into a power outlet and press the Home button on remote control. Follow the instructions on your TV screen to complete pairing.

With Roku Wireless Speakers, you can listen to all of your TV shows as well as the sound from any streaming channel. Select audio-only channels let you listen to music with the TV screen turned off.

After you have paired your Roku Wireless Speakers with your Roku TV, all sound normally comes from the Roku Wireless Speakers instead of the internal TV speakers. However, when you enable Game mode on an input, sound comes from the internal TV speakers to avoid the effects of latency in game play.

Note(s)

- Roku Wireless Speakers work only when your TV is operating in connected mode.

Tip(s)

- You can determine which device is currently being used for TV audio by navigating from the Home screen to **Settings** > Audio and noting the audio source next to Sound Control. This item is information only—you cannot change the sound output from this menu item.

Using the 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 TV speakers for home theater use

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

Note(s)

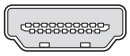
- The TV's internal speakers can be enabled and disabled automatically as needed by system audio control, as described in **Enable system audio control** ➟ **p. 56**. Using the headphone jack also turns off the internal speakers.

Setting up a digital audio connection

To take advantage of your TV's advanced audio capabilities, connect it to an external amplifier, receiver, or sound bar by using either of these two digital audio connections:

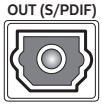
- **HDMI ARC** – The HDMI® Audio Return Channel enables the TV to output digital audio on one of its HDMI® connectors. The connected amplifier can also function simultaneously as an input source to the TV, if needed. To use the ARC capability, you must connect an HDMI® cable from your amplifier's **HDMIR ARC** connector to the HDMI ARC connector on the TV. You also must:
  - Be sure your HDMI® cable is certified by HDMI®.
  - Enable **HDMI ARC** under **Settings** > **System** > **Control other devices (CEC)**, as explained in **Enable HDMI®ARC** ➟ **p. 56**.

HDMI (ARC)



- **SPDIF optical** – The SPDIF optical connector outputs a digital audio signal. To use the optical output, connect a TOSLINK optical cable from the amplifier to the Optical or SPDIF connector on the TV.

DIGITAL AUDIO OUT (S/PDIF)



Note(s)

- Dolby Audio™ supporting Dolby Digital Plus™ format is not available through the SPDIF optical output. This format is only available through the HDMI® ARC connection.

After making the required HDMIR ARC or SPDIF optical connection, go to **Settings** > **Audio** > **S/PDIF and ARC** option and select the audio format to use.

Note(s)

- 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.

Pairing Bluetooth devices with Roku Wireless Speakers

You can stream music from your mobile devices to Roku Wireless Speakers. After pairing the speakers with your TV, you can find Bluetooth pairing controls on the TV under **Settings** > Remotes & Devices > **Pair new device** > Bluetooth device. Follow the instructions on the screen to pair your mobile device.

Turning off the TV screen while listening to music

Certain music channels enable you to turn off the TV screen while streaming music to your TV speakers, sound bar, home theater receiver, or Roku wireless speakers. You also can turn off the TV screen when listening to music being streamed from your mobile device using Bluetooth.

To turn off the TV screen on supported channels and Bluetooth streaming:

1. Press ✱ to display the Options menu.
2. Press the **DOWN** arrow to highlight Turn off display.
3. Press **OK**.

Note(s)

- This feature is available only on select streaming audio channels, and only when the TV is operating in connected mode with Fast TV Start enabled. To enable fast tv start, from the Home screen, navigate to **Settings** > **System** > **Power**.

Controlling other devices through CEC

Consumer Electronics Control (CEC) enables your TV and other CEC-compatible home entertainment devices 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 the TV to the Blu-ray™ player's input. Or, powering off the TV could also power off the Blu-ray™ player and the home theater receiver.

Discover connected CEC devices

To discover CEC devices:

1. Make sure that your CEC-compatible devices are connected to the TV with a suitable High Speed HDMI® Cable that supports HDMI® ARC and CEC control.
2. Turn on each device and make sure all devices are CEC enabled.

Tip(s)

- 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 the 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, the TV displays a list of CEC devices that are connected to each HDMIR input, as well as any devices that had previously been connected. The 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.

Enable HDMI ® ARC

HDMI® ARC is the audio return channel that is available on one of the TV's HDMI^{R} ports. The audio return channel enables you to send a Dolby Audio™ signal back to a home theater receiver that is also sending an audio and video signal into the 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 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.

Note(s)

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

Enable system audio control

System audio control enables the TV remote 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 the TV's on-screen display.

The 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 the TV.
- The 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 the TV's **HDMI ARC** connector with a suitable HDMI® cable.

When the CEC-compatible amplifier is off, the TV automatically turns on its speakers (unless you have turned them off as described in **Turning off the TV speakers for home theater use** ➟ **p. 55**) 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.

Enable 1-touch play

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

Enable system standby

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

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 the TV

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

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

While the 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** ➟ **p. 47**.

Resetting the TV

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

Reset audio/video settings

To reset only the 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 the TV's settings to their original state and removes all personally identifiable information from the TV. 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 the TV to another owner, and it 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, the TV restarts and displays the first Guided Setup screen.

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

It is possible for your TV to 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 the TV to reset by following these steps.

Models with a Reset button

1. Using a straightened paper clip or ball-point pen, press and hold the recessed **Reset** button on the TV connector panel.
2. Continue to hold the **Reset** button for approximately 12 seconds.

   When the reset cycle completes, the status indicator comes on dim.
3. Release the **Reset** button. The TV is now powered off.
4. Turn on the TV and proceed through Guided Setup. See **Guided Setup ➟ p. 16**.

Models without a Reset button

1. On the TV panel (not the remote) press and hold down the **Mute** and **Power** buttons.
2. Unplug the TV power, and then plug it in while continuing to hold down the **Mute** and **Power** buttons.
3. When you see the startup screen appear on the TV, release the buttons.
4. Turn on the TV and proceed through Guided Setup. See **Guided Setup ➟ p. 16**.

Network connection reset

If you want to remove your network connection information without disturbing other settings, navigate from the Home screen to **Settings** > **System** > **Advanced systems settings** > **Network connection reset**, and then select **Reset connection**.

When you select this option, the TV removes your wireless network information, including the name of the connection (its SSID) and your wireless password, if any, and then it restarts. After restarting, your TV retains all of its other settings and its association with your Roku account.

After resetting your network connection, navigate from the Home screen to **Settings** > **Network** > **Set up new connection** to continue enjoying all of the benefits of your connected TV.

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*** and sign in. After signing in, the **My Account** page appears.
2. Under **PIN Preference**, click **Update** to open the **Choose Your PIN Preferences** page.
3. Skip this step if you just want to change your PIN. Otherwise, choose the option your 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.
4. If you choose either of the first two options, enter your PIN twice in the appropriate boxes.
5. Click **Save Changes** to save your changes and return to the **My Account** page. Note that your current setting is described under **PIN Preference**.

Getting system updates

If your TV is operating in connected mode, it will automatically get updates from time to time. You don't need to do anything. But if you are aware that an update is available and you don't want to wait until the TV updates itself, you can manually check for updates.

If your TV is operating in non-connected mode, you can still get updates by using a USB flash drive.

You can download an updated User Guide that matches your Roku TV software version from the Roku web site at:

www.roku.com/support

To determine your current Roku TV software version, go to **Settings** > **System** > **About**, and then press **OK** or navigate to the right.

Checking for updates on a connected TV

If you're one of those people who has to have the latest, most up-to-date features the moment they are available, you can check for updates as often as you want.

To check for updates, navigate to **Settings** > **System** > **System update**, and then select **Check now**. The TV responds either with a message saying that your TV is up to date, or with a message saying that an update is available.

Follow the instructions on the screen to install the system update.

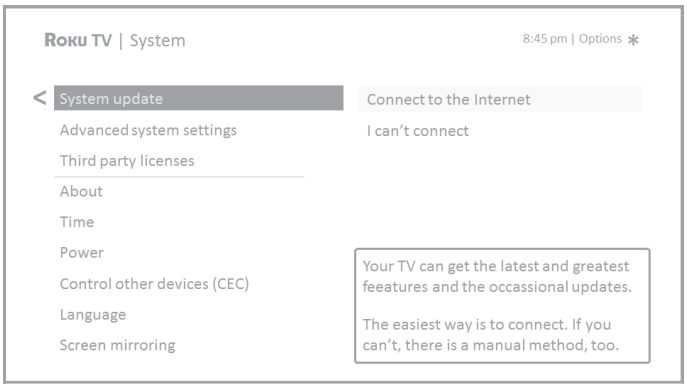
Note(s)

- Sometimes system updates install new system software, and other times they install new features for streaming channels. Therefore, you won't always see a change in the behavior of your TV after a system update.

Getting updates on a non-connected TV

If your TV is not connected to the Internet, you can still get system updates by using a USB flash drive and a computer with an Internet connection.

To get a system update, navigate to **Settings** > **System** > **System update**:



The **System update** screen on a non-connected TV gives you the opportunity to connect your TV to the Internet to automatically receive updates. We recommend this option if it is possible in your situation. To proceed, select **Connect to the Internet** and follow the instructions in **What if I didn't connect my TV?** ➟ **p. 22**.

Otherwise, if you can't connect to the Internet, select **I can't connect**, and then follow the instructions on the screen. Here's a summary:

1. On an Internet-connected computer, go to the web site displayed on the **System update** screen.
2. On the **USB Update** web page, select the correct brand and model, and then click **Next**.
3. Click **Download Software**, and then save the file to the root folder of a standard USB flash drive.

USB flash drive

Any normal USB flash drive will work, provided it has a FAT-16 or FAT-32 file system format. (This is the default for most flash drives.)

The size of the download is small – usually less than 100 MB – and so will fit on most any size flash drive you might have.

4. When the download finishes, take the USB flash drive to the TV and plug it into the USB port. When you do, the TV validates the files on the flash drive and displays a 12-digit code.
5. Write down the code and the web address, and take this information back to your Internet-connected computer.
6. On the **12-digit code** page, enter the code your TV displayed, and then click **Next**.

7 On the **6-digit** code page, write down the 6-digit code that appears, and then take it back to your TV.

12- and 6-digit codes

The USB update process uses a pair of codes to validate that you are authorized to install an update, and to ensure you are not attempting to install an old, unsupported version of the system software.

8 Using the TV remote, select **Next** to move to the next screen, and then use the on-screen keyboard to enter the 6-digit code. When finished, select **OK**. The system update begins. Do not remove the USB flash drive until the TV restarts.

When the update finishes, the TV restarts. You can check the new version number by navigating to **Settings** > **System** > **About**.

14 Other devices

Screen Mirroring your phone or tablet

Screen Mirroring your phone or tablet

Only in connected mode, 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.

By default, your TV's screen mirroring mode is set to Prompt. In this mode, when your TV receives a screen mirroring request, it prompts you with the following options, unless you have previously selected Always accept or Always ignore for the device:

- **Always accept** – Always accept mirrored content from the mobile device without additional prompting in the future for this device.
- **Accept** – Accept mirrored content from the mobile device this time only. Prompt again next time this device attempts to mirror content.
- **Ignore** – Do not accept mirrored content from the mobile device at this time. Prompt again next time this device attempts to mirror content.
- **Always ignore** – Never accept mirrored content from this mobile device.

Note(s)

- You can manage and change the list of devices that are set to Always accept or Always ignore by navigating from the Home screen to **Settings** > **System** > **Screen mirroring** > **Screen mirroring devices**.

- If you prefer to always allow all screen mirroring attempts without prompting, go to **Settings** > **System** > **Screen mirroring**, and then change the Screen mirroring mode to Always allow.
- If you prefer to never allow screen mirroring from any device, change the **Screen mirroring mode** to **Never allow**.

For information on which devices may work with screen mirroring and instructions on how to use it, go to the following link on the Roku web site:

go.roku.com/screenmirroring

Getting and using the Roku mobile app

Roku makes the Roku mobile app free for compatible iOS® and Android™ mobile devices.

The Roku mobile app is an alternative remote for your Roku TV The Roku mobile app helps you find and add new Roku Channels, more easily search and find something to watch and, only in the United States, even use your voice to search without typing. Find more information and get the Roku mobile app by using the following link to the Roku web site:

go.roku.com/mobileapp

Private Listening on the Roku mobile app

Only on compatible Apple and Android devices, the Roku mobile app enables you to use headphones connected to your device to listen to streaming programs Antenna TV channels. Make sure you have the latest version of the Roku mobile app before using this feature.

For more information, go to the following link on the Roku web site:

go.roku.com/privatelistening

Using a universal remote

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

For details on how to set up the TV to work with universal remotes, go to the following link on the Roku web site:

go.roku.com/universalremote

15 FAQ

For the latest answers to Frequently Asked Questions, visit the Roku support website:
go.roku.com/support

Legal statement

Please note—Use of the Roku TV is governed by the Roku TV End User Agreement (see below). In addition, an end user online profile and billing account with Roku, Inc. ("Roku") on Roku's website ("Roku Account") is required to stream content via the Internet using your Roku TV. A Roku Account gives you access to movies, television shows, and other audio-visual entertainment in the "Roku Channel Store," a storefront of applications provided by Roku via your device's on-screen menu. After your Roku Account is created, you can link your Roku TV to your account. By using the Roku TV, you agree to the following disclaimer. For the avoidance of doubt, the content disclaimer set forth herein shall refer to all content and channels accessible and available on the Roku® TV, including those available via the RokuR streaming platform, as well as broadcast cable.

Due to the various capabilities of the Roku TV, as well as limitations in the available content available therein, certain features, applications, and services may not be available on all Roku TV s, or in all territories. Some features on the Roku TV may also require additional peripheral devices or membership fees that are sold separately. Please visit the Roku, Inc. website for more information on the Roku TV and content availability. The services and availability of content on the Roku TV are subject to change from time to time without prior notice.

All content and services accessible through the Roku TV belong to third parties and are protected by copyright, patent, trademark and/or other intellectual property laws. Such content and services are provided solely for your personal noncommercial use. You may not use any content or services in a manner that has not been authorized by the content owner or service provider. Without limiting the foregoing, you may not modify, copy, republish, upload, post, transmit, translate, sell, create derivative works, exploit, or distribute in any manner or medium any content or services displayed through the Roku TV.

You expressly acknowledge and agree that your use of the Roku TV is at your sole risk and that the entire risk as to satisfactory quality, performance and accuracy is with you. The Roku TV and all third party content and services are provided "as is" without warranty of any kind, either express or implied. Roku expressly disclaims all warranties and conditions with respect to the Roku TV content and services, either express or, implied, including but not limited to, warranties of merchantability, of satisfactory quality, fitness for a particular purpose, of accuracy, of quiet enjoyment, and non-infringement of third party rights. Roku does not guarantee the accuracy, validity, timeliness, legality, or completeness of any content or service made available through the Roku TV and does not warrant that the Roku TV, content or services will meet your requirements, or that operation of the Roku TV will be uninterrupted or error-free. Under no circumstances, including negligence, shall Roku be liable, whether in contract or tort, for any direct, indirect, incidental, special or consequential damages, attorney fees, expenses, or any other damages arising out of, or in connection with, any information contained in, or as a result of the use of the device, or any content or service accessed by you or any third party, even if advised of the possibility of such damages.

Third party services may be changed, suspended, removed, terminated or interrupted, or access may be disabled at any time, without notice, and Roku makes no representation or warranty that any content or service will remain available for any period of time. Content and services are transmitted by third parties by means of networks and transmission facilities over which Roku has no control. Without limiting the generality of this disclaimer, Roku expressly disclaims any responsibility or liability for any change, interruption, disabling, removal of or suspension of any content or service made available through the Roku TV. Roku, the content providers, or the service providers may impose limits on the use of or access to certain services or content, in any case and without notice or liability. Any questions or requests for service relating to the content or services made available on the Roku TV should be submitted to the respective cable content or service provider or as described in the Roku TV User Guide.

In the event of a conflict between the Roku TV End User Agreement and the terms set forth in this Legal Disclaimer, the Roku TV End User Agreement shall prevail and control in all circumstances.

END USER LICENSE AGREEMENT (FOR ROKU TV)

IMPORTANT: READ THIS AGREEMENT CAREFULLY BEFORE YOU USE A ROKU TV. ALSO REVIEW THE IMPORTANT PRODUCT INFORMATION THAT MAY HAVE BEEN PROVIDED WITH YOUR ROKU TV.

Overview

This End User License Agreement ("**EULA**") between you and Roku, Inc. ("**Roku**") governs the use of: (a) your television which uses the Roku platform to play digital content over the Internet ("**Television**"), and (b) any firmware and software that have been pre-installed on the Television and the firmware and software updates Roku provides to you for the Television (collectively, the "**Software**"). By linking the Television to your account on Roku's website ("**Roku Account**") or using the Television, you are agreeing to this EULA. If you are a resident of the European Economic Area, by agreeing to this EULA, you expressly agree to waive your right to withdraw.

If you do not agree to this EULA, you do not have the right to use the Television or the Software. If you are within the allowable time period for returns under the applicable return policy, you may return the Television to your seller for a refund, subject to the terms of such return policy. You should perform a factory reset before you return it to erase data that may be stored on the Television. For instructions on how to reset your Television, please visit ***www.roku.com/support.***

In this EULA, "**Channel**" means an application in the Roku Channel Store; "**Content**" means movies, television shows, music and other audio and visual materials and entertainment; "**Content Provider**" means any provider of Content; and "**Roku Channel Store**" means the storefront of applications provided by Roku via the Television's on-screen menu.

Changes to This EULA

Roku may amend this EULA at any time in its discretion. Such amendments shall be effective immediately upon posting of the amended EULA on Roku's website or via the Television or your Roku Account, whichever occurs first. If you have a Roku Account that is linked to your Television, then in its option, Roku may also notify you of the amended EULA by sending a notice to the last email address you have provided to Roku. You agree to provide accurate and complete information if and when you set up your Roku Account, and you agree to promptly update your account information (including contact information) to keep it accurate and complete. You can do this at any time by signing in to your Roku Account. Following such posting or notice by any of the methods described above, continued use of your Television or Roku Account means you accept and agree to the amended EULA. If you do not agree to the amended EULA, Roku may not be able to provide updates, upgrades or enhancements to your Television, and you may not be able to continue using your Television or Roku Account.

Permitted Use and Restrictions

The Television and the Software are for personal, non-commercial use only. Copying or redistribution of any Content delivered via the Television is strictly prohibited and we may prevent or restrict you from copying or re-distributing any elements of the Software or Content using digital rights management or other technologies. The Television and the Software are for use only in those countries where the manufacturer of your Television has authorized its sale. If you are using the Television and the Software outside of these countries, the rights granted under this EULA do not apply. Some of the Content Providers use technologies to verify your geographic location, and you may not be able to use the Television or the Software to access any Content outside of the country or location authorized by Roku or the Content Provider. Except as expressly provided under this EULA, you do not acquire any intellectual property or other proprietary rights in or to the Television, the Software or the Content, including any rights in patents, inventions, improvements, designs, trademarks, database rights or copyrights, nor do you acquire any rights in any confidential information or trade-secrets. All rights not expressly granted to you in this EULA are reserved by Roku or its applicable licensors. You may not remove, obscure, alter or conceal any trademark, logo, copyright or other proprietary notice in or on any Television, Software or Content.

The Software is proprietary to Roku or its third party licensors and may be used only with the Television. Subject to this EULA and, where appropriate, the applicable third party licenses, you have a non-exclusive, non-transferable license to run the Software and any updated versions provided to you by Roku, only in and as incorporated in the Television. This is a license and not a sale. You may not (a) copy, assign, sublicense, lease, sell or rent the Software, (b) distribute or otherwise transfer the Software except as incorporated in the Television, provided that, you do not retain any copies of the Software and the recipient reads and agrees to this EULA (including all amendments); (c) modify, adapt, translate, or create derivative works of the Software (except only to the extent any of the foregoing restriction is prohibited by applicable law or as may be permitted by the license terms governing any Separately Licensed Code included with the Software); (d) decompile, disassemble, reverse engineer or otherwise derive source code from the Software, except to the extent such actions cannot be prohibited under applicable law because they are essential to achieve inter-operability of the Software with another software program, and provided that the information obtained by you during such activities is (i) used only to achieve such inter-operability; (ii) not disclosed without Roku's prior written consent; and (iii) not used to create any software that is substantially similar to the Software; (e) defeat, bypass, circumvent or interfere with any security mechanism or access control measures, or (f) have any of the foregoing done for you by a third party. This license does not include the right to receive Software upgrades or updates. Your right to use the Television and the Software will immediately terminate upon your breach of this EULA.

Software Updates

IN ITS SOLE DISCRETION, ROKU MAY PROVIDE UPDATES TO YOUR TELEVISION VIA THE INTERNET, INCLUDING BUG FIXES AND UPDATES, CHANGES IN THE USER INTERFACE OR HOW YOU ACCESS CONTENT, AND OTHER CHANGES THAT MAY ADD, ALTER OR REMOVE FUNCTIONALITIES AND FEATURES. YOU ACKNOWLEDGE THAT THESE UPDATES: (A) MAY HAPPEN AUTOMATICALLY IN THE BACKGROUND AT ANY TIME (AND THAT THEY CANNOT BE DISABLED BY YOU); AND (B) WILL REQUIRE AN INTERNET CONNECTION AND YOU MAY INCUR ADDITIONAL DATA CHARGES FROM THE PROVIDER OF THE INTERNECT CONNECTION. YOU UNDERSTAND THAT THESE UPDATES ARE NECESSARY TO MAINTAIN COMPATIBILITY WITH OTHER UPDATES TO ROKU'S PRODUCTS OR SERVICES AND MAY BE REQUIRED FOR SECURITY REASONS. BY USING THE TELEVISION, YOU HEREBY AGREE TO RECEIVE SUCH UPDATES.

Separately Licensed Code

Certain software components of the Software are provided under separate third party license terms ("**Separately Licensed Code**") and your right to use such components is governed by such license terms. Please visit

go.roku.com/seperatelylicensedcode for more information.

Voice Search

If downloaded to your phone or mobile device, the Roku mobile app allows you to use your voice to search for content on your Television using voice search. When you choose to use voice search, you agree that Roku and/or a third party vendor contracted by Roku have your consent to record, process and store your voice inputs (e.g., a recording and the interpretation of what was said), and use such voice inputs with other information about your Television (e.g., device identifier) to provide services related to voice search to you, to improve the accuracy and quality of the service, and as described in Roku's Privacy Policy. To learn more about voice search, visit the FAQ pages of Roku's website at ***www.roku.com/support***.

NO WARRANTY FROM ROKU; Limitation of LIABILITY

YOUR warranty with respect to the Television is provided by THE TELEVISION'S MANUFACTURER, and not by Roku. ROKU OFFERS NO WARRANTY TO YOU UNDER THIS EULA. WITHOUT LIMITING THE GENERALITY OF THE FOREGOING DISCLAIMER, TO THE MAXIMUM EXTENT PERMITTED BY APPLICABLE LAW:

(A) THE SEPARATELY LICENSED CODE AND THE SOFTWARE ARE PROVIDED "AS IS", WITH ALL FAULTS AND WITHOUT WARRANTY OF ANY KIND. ROKU DISCLAIMS ALL OTHER WARRANTIES AND CONDITIONS, INCLUDING THE IMPLIED WARRANTY OF MERCHANTABILITY, SATISFACTORY QUALITY, FITNESS FOR A PARTICULAR PURPOSE AND NON-INFRINGEMENT. ROKU DOES NOT GUARANTEE, REPRESENT, OR WARRANT THAT THE TELEVISION, THE SEPARATELY LICENSED CODE AND THE SOFTWARE WILL BE: (I) SECURE, VIRUS-FREE OR ERROR-FREE, OR (II) FREE FROM ATTACK OR SECURITY INTRUSION.

(B) IN NO EVENT SHALL ROKU, ITS DIRECTORS, OFFICERS OR EMPLOYEES BE LIABLE TO YOU FOR PERSONAL INJURY OR PROPERTY DAMAGE, OR ANY SPECIAL, INCIDENTAL, EXEMPLARY, PUNITIVE, INDIRECT OR CONSEQUENTIAL DAMAGES OF ANY KIND ARISING OUT OF ANY TELEVISION, THE SEPARATELY LICENSED CODE, THE SOFTWARE, OR YOUR USE THEREOF; AND

(C) YOU AGREE THAT (I) THE TOTAL CUMULATIVE LIABILITY OF ROKU, ITS DIRECTORS, OFFICERS AND EMPLOYEES UNDER THIS EULA, INCLUDING LIABIILTY RELATING TO ALL TELEVISIONS LINKED TO YOUR ROKU ACCOUNT, AND THE SEPARATELY LICENSED CODE AND THE SOFTWARE IN SUCH TELEVISIONS, AND YOUR USE THEREOF, SHALL NOT EXCEED THE AMOUNT SET FORTH IN THE ROKU ACCOUNT TERMS AND CONDITIONS YOU AGREED TO FOR YOUR ROKU ACCOUNT, AND (II) ROKU, ITS DIRECTORS, OFFICERS AND EMPLOYEES SHALL NOT BE LIABLE TO YOU UNDER THIS EULA FOR ANY DIRECT DAMAGES ARISING OUT OF, OR IN CONNECTION WITH THE TELEVISION. THE FOREGOING LIMITATIONS SHALL APPLY EVEN IF THE REMEDY PROVIDED HEREIN FAILS ITS ESSENTIAL PURPOSE AND EVEN IF ROKU, ITS DIRECTORS, OFFICERS OR EMPLOYEES HAVE BEEN ADVISED OF THE POSSIBILITY OF SUCH LIABILITY.

SOME JURISDICTIONS DO NOT ALLOW EXCLUSIONS OF CERTAIN WARRANTIES OR LIMITATOINS OF LIABILITY FOR CERTAIN TYPES OF DAMAGES, SO SOME OF THE ABOVE LIMITATIONS IN THIS SECTION MAY NOT APPLY TO YOU. NOTHING IN THESE TERMS OF USE SHALL AFFECT ANY NON-WAIVABLE STATUTORY RIGHTS THAT APPLY TO YOU, AND YOU MAY ALSO HAVE OTHER RIGHTS THAT VARY FROM JURISDICTION TO JURISDICTION.

Export Controls

You agree not to download any Content or Software, nor otherwise export or re-export any Television or the Software into (or to a national or resident of) Cuba, Iraq, Libya, North Korea, Iran, Syria or any other country as to which the United States or your country has embargoed goods, or to anyone on the U.S. Treasury Department's List of Specially Designated Nationals or the U.S. Commerce Department's Table of Denial Orders or on similar restricted lists published by your government from time to time. By using any Television or the Software, you are representing and warranting that you are not located in, under the control of, or a national or resident of any such country or on any such list.

Choice of Law; Dispute Resolution

A. If you are a consumer and a resident in any country in the European Economic Area where the sale of the Television is expressly authorized by its manufacturer, this EULA does not apply to you.

B. In all other cases, including if you are a resident of the United States (and its possessions and territories) or Canada, you agree that this EULA shall be governed by the laws of the State of California without regard to any conflict of laws principles that may provide the application of the law of another jurisdiction; and:

1. You and Roku agree to be bound by the procedures set forth below to resolve any and all claims between you and Roku arising out of or relating to any aspect of this EULA, whether based in contract, tort, statute, fraud, misrepresentation or any other legal theory, including but not limited to, claims between you and Roku related to the Television and the Software. Each such claim is referred to individually as "Claim" and collectively as "**Claims**".

2. YOU AND ROKU AGREE THAT, EXCEPT FOR THE CLAIMS IDENTIFIED IN PARAGRAPH 4 OF THIS SECTION BELOW, ANY AND ALL CLAIMS BETWEEN YOU AND ROKU SHALL BE FINALLY SETTLED BY BINDING ARBITRATION.

The arbitration shall take place in Santa Clara County, California and shall be administered by the American Arbitration Association ("AAA") pursuant to the AAA's then-current rules, including (if applicable) the AAA's Supplementary Procedures for Consumer-Related Disputes. Please be aware there is no judge or jury in arbitration. Arbitration procedures are simpler and more limited than the rules applicable in court, and review of the arbitrator's decision by a court is limited. **YOU AND ROKU FURTHER AGREE THAT EACH OF YOU MAY BRING CLAIMS AGAINST THE OTHER ONLY ON AN INDIVIDUAL BASIS AND NOT AS A PLAINTIFF OR CLASS MEMBER IN ANY PURPORTED CLASS OR REPRESENTATIVE ACTION OR PROCEEDING. THE ARBITRATOR MAY NOT CONSOLIDATE OR JOIN MORE THAN ONE PERSON'S CLAIM AND MAY NOT PRESIDE OVER ANY CONSOLIDATED, REPRESENTATIVE OR CLASS PROCEEDING. ALSO, THE ARBITRATOR MAY AWARD RELIEF (INCLUDING MONETARY, INJUNCTIVE OR DECLARATORY RELIEF) ONLY ON AN INDIVIDUAL BASIS AND MAY NOT AWARD ANY FORM OF CONSOLIDATED, REPRESENTATIVE OR CLASS-WIDE RELIEF.**

Notwithstanding any provision in these terms to the contrary, if the class-action waiver in this provision is deemed invalid or unenforceable, or if an arbitration is allowed to proceed on a class basis, then neither you nor Roku are entitled to arbitrate the Claims. This arbitration provision is subject to the Federal Arbitration Act. The arbitrator's award shall be binding on you and Roku, and may be entered in any court of competent jurisdiction.

3. Information on AAA (American Arbitration Association) and how arbitration is initiated can be found at ***www.adr.org*** or by calling 800-778-7879. For Claims between You and Roku of $75,000 or less, you will be responsible for the initial arbitration filing fee, up to the amount of the initial filing fee if you were to initiate a lawsuit against Roku based on such Claims in court. If the arbitrator finds such Claims to be non-frivolous, Roku will pay any difference in such filing fees plus the arbitrator fees. For Claims between You and Roku in excess of $75,000, if you are able to demonstrate that the costs of arbitration will be prohibitive as compared to the costs of litigation, Roku will pay as much of your actual filing fees and the arbitrator fees for the arbitration as the arbitrator deems

necessary to prevent the arbitration from being cost-prohibitive as compared to the cost of litigation.

4. This agreement to arbitrate does not apply to any Claim (a) in which a party is attempting to protect its intellectual property rights (such as its patent, copyright, trademark, trade secret, or moral rights, but not including its privacy or publicity rights), or (b) that may be brought in small-claims court.
5. If the agreement to arbitrate in this provision is found to be invalid, unenforceable or inapplicable to a given Claim between You and Roku, then any and all proceedings to resolve such Claim must be brought exclusively in a federal court of competent jurisdiction in the Northern District of California or in a state court in Santa Clara County, California. You hereby irrevocably consent to the exclusive jurisdiction and venue of such courts.
6. **30-Day Right to Opt Out** : You have the right to opt out of this agreement to arbitrate by sending a written notice of your decision to opt out to the following address: Legal Department, Roku, Inc., 150 Winchester Circle, Los Gatos, CA 95032, USA; provided that, such notice must be postmarked on or before the 30th day after the first to occur of the following events if you do not already have a Roku Account: (a) the date of purchase of Your Television, or (b) the date you create your Roku Account. If you have an existing Roku Account, all devices you choose to link to your Roku Account, and all services provided by Roku which are accessed using these devices, will be subject to this agreement to arbitrate. Your notice should include your full name, your current postal address, telephone number and email address, the product name and serial number for Your Television, and a copy of the original proof of purchase for your Television. If you timely send a notice in compliance with this paragraph 6, the agreement to arbitrate will not apply to either you or Roku. If you do not timely send this notice, then you agree to be bound by this agreement to arbitrate.
7. Notwithstanding any provision in this Agreement to the contrary, you agree that, if Roku seeks to delete or materially modify the agreement to arbitrate described herein, any such deletion or modification will not apply to any individual Claim of which you have notified Roku prior to such modification.

Miscellaneous

Roku may transfer its rights and obligations under this EULA to another organization. You may only transfer your rights or your obligations under this EULA to another person if Roku agrees in writing. This EULA is between you and Roku. No other person shall have any rights to enforce these terms. Each of the paragraphs of this EULA operates separately. If any court or relevant authority decides that any of them are unlawful, the remaining paragraphs will remain in full force and effect. If Roku fails to insist that you perform any of your obligations under this EULA, or if Roku does not enforce its rights against you, or if Roku delays in doing so, that will not mean that Roku has waived its rights against you, or that you do not have to comply with those obligations. If Roku does waive a default by you, Roku will only do so in writing, but that will not mean that Roku will automatically waive any later default by you.

Contact Information

If you wish to contact Roku, please send your correspondence by mail to Roku, Inc., 150 Winchester Circle, Los Gatos, CA 95032 USA, or by email to ***customerservice@roku.com.***

Last Updated: April 21, 2016

16 Warranty

LIMITED WARRANTY
ONE (1) YEAR PARTS AND LABOR

WARRANTY COVERAGE:
This warranty obligation is limited to the terms as set forth below.

WHO IS COVERED:
This product warranty is issued to the original purchaser or the person receiving the product as a gift against defects in materials and workmanship as based on the date of original purchase ("Warranty Period") from an Authorized Dealer. The original sales receipt showing the product name and the purchase date from an authorized retailer is considered such proof.

WHAT IS COVERED:
This warranty covers new products if a defect in material or workmanship occurs and a valid claim is received within the warranty period. At its option, the company will either (1) repair the product at no charge, using new or refurbished replacement parts, or (2) exchange the product with a new or refurbished product at company's option.
Replacement products or parts provided under this warranty are covered against defects in materials and workmanship from the date of the replacement or repair for ninety (90) days or for the remaining portion of the original product's warranty, whichever provides longer coverage for you. When a product or part is exchanged, any replacement item becomes your property and the replaced item becomes company property. When a refund is given, your product becomes company property.
Note: Any product sold and identified as refurbished or renewed carries a ninety (90) day limited warranty.

Replacement product can only be sent if all warranty requirements are met. Failure to follow all requirements can result in delay.

WHAT IS NOT COVERED - EXCLUSIONS AND LIMITATIONS:
This limited warranty applies only to new company manufactured products that can be identified by the trademark, trade name, or logo affixed to it. This limited warranty does not apply to any hardware product or any software, even if packaged or sold with the product, as manufacturers, suppliers, or publishers may provide a separate warranty for their own products packaged with the bundled product.

The company is not liable for any damage to or loss of any programs, data, or other information stored on any media contained within the product, or other additional product or part not covered by this warranty. Recovery or reinstallation of programs, data or other information is not covered under this limited warranty.

This warranty does not apply (a) to damage caused by accident, abuse, misuse, neglect, misapplication, or non-supplied product, (b) to damage caused by service performed by anyone other than company approved Authorized Service Location, (c) to a product or a part that has been modified without written company permission, or (d) if any serial number has been removed or defaced, or (e) product, accessories or consumables sold "AS IS" without warranty of any kind by including refurbished product sold "AS IS" by some retailers.

This limited warranty does not cover:
- Shipping costs for returning defective product.
- Labor charges for installation or setup of the product, adjustment of customer controls on the product, and installation or repair of antenna/signal source systems outside of the product.
- Product repair and/or part replacement because of improper installation or maintenance, connections to improper voltage supply, power line surge, lightning damage, retained images or screen markings resulting from viewing fixed stationary content for extended periods, product cosmetic appearance items due to normal wear and tear, unauthorized repair or other cause not within the control of the company.
- Damage or claims for products not being available for use, or for lost data or lost software.
- Damage from mishandled shipments or transit accidents when returning product.
- A product that requires modification or adaptation to enable it to operate in any country other than the country for which it was designed, manufactured, approved and/or authorized, or repair of products damaged by these modifications.
- A product used for commercial or institutional purposes (including but not limited to rental purposes).
- Product lost in shipment and no signature verification receipt can be provided.
- Failure to operate per Owner's Manual.

TO OBTAIN ASSISTANCE…
Contact the Customer Care Center at:
1 866 341 3738

REPAIR OR REPLACEMENT AS PROVIDED UNDER THIS WARRANTY IS THE EXCLUSIVE REMEDY FOR THE CONSUMER, WITH THE ISSUING COMPANY NOT LIABLE FOR ANY INCIDENTAL OR CONSEQUENTIAL DAMAGES FOR BREACH OF ANY EXPRESS OR IMPLIED WARRANTY ON THIS PRODUCT. EXCEPT TO THE EXTENT PROHIBITED BY APPLICABLE LAW, ANY IMPLIED WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE ON THIS PRODUCT IS LIMITED IN DURATION TO THE DURATION OF THIS WARRANTY.

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