

# HITACHI - Roku TV

# Owner's Guide

### Version 7.5

Models: 55R7

55" Class (54.64" Diag.)

Serial No. \_\_\_\_\_

### **CONGRATULATIONS**

Thank you for purchasing this Hitachi product.

Please read these instructions carefully.

For additional assistance please call Toll Free 800.HITACHI (800.448.2244) or visit our website at www.hitachi.us/tv.

Keep this Guide for future reference.

Record the model name and serial number of your LCD Television for future reference. This information is located on the back of the television.

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# IMPORTANT SAFETY INSTRUCTIONS



SERVICE PERSONNEL.

SERVICEABLE PARTS INSIDE.

REFER SERVICING TO QUALIFIED



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 product's enclosure that may be of sufficient magnitude to constitute a risk of electric shock.



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 appliance.

WARNING: TO PREVENT FIRE OR SHOCK HAZARD, DO NOT EXPOSE THIS

APPLIANCE TO RAIN OR MOISTURE.

TO PREVENT THE SPREAD OF FIRE. KEEP CANDLES OR OPEN

FLAMES AWAY FROM THIS PRODUCT AT ALL TIMES.

CAUTION: TO PREVENT ELECTRIC SHOCK, DO NOT USE THIS TELEVISION'S AC PLUG WITH AN EXTENSION CORD. RECEPTACLE OR OTHER OUTLET UNLESS THE BLADES CAN BE FULLY INSERTED TO PRE-VENT BLADE EXPOSURE.

**WARNING:** 

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 receiver.
- Connect the equipment to an outlet on a circuit different from that to which the receiver is connected.

Never place a television set in an unstable location. A television set 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 television set.
- Only using furniture that can safely support the television set.
- Ensuring the television set is not overhanging the edge of the supporting furniture.

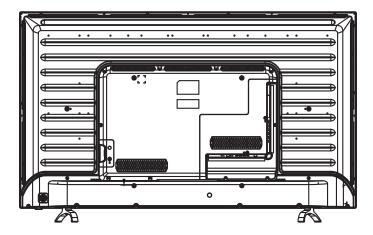
- Not placing the television set on tall furniture (for example, cupboards or bookcases) without anchoring both the furniture and the television set to a suitable support.
- Not placing the television set on cloth or other materials that may be located between the television set and supporting furniture.
- Educating children about the dangers of climbing on furniture to reach the television set or its controls.
- Consult the dealer or an experienced radio/TV technician for help.

#### **CAUTION:**

- Changes or modifications not expressly approved by the party responsible for compliance with the FCC Rules could void the user's authority to operate this equipment.
- To comply with FCC RF exposure compliance requirements, a separation distance of at least 8 inches must be maintained between this device and all persons.

#### Location of the required Marking

The rating sheet and the safety caution are on the rear of the unit.



This equipment is a Class II or double insulated electrical appliance. It has been designed in such a way that it does not require a safety connection to electrical earth.

- 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 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.
- 15) Apparatus should not be exposed to dripping or splashing, and objects filled with liquids, such as vases, should not be placed on the apparatus.
- An outside antenna system should not be located in the vicinity of overhead power lines or other electric light or power circuits, or where it can fall into such power lines or circuits. When installing an outside antenna system, extreme care should be taken to keep from touching such power lines or circuits, as contact with them might be fatal.
- 17) Do not overload wall outlets and extension cords, as this can result in a risk of fire or electric shock.
- Do not push objects through any openings in this unit, as they may touch dangerous voltage points or short out parts that could result in fire or electric shock. Never spill or spray any type of liquid into the unit.
- 19) If an outside antenna or cable system is connected to the unit, be sure the antenna or cable system is grounded to provide some protection against voltage surges and built-up static charges, Section 810 of the National Electrical

Code, ANSI/NFPA 70, provides information with respect to proper grounding of the mast and supporting structure, grounding of the lead-in wire to an antenna discharge unit, size of grounding conductors, location of antenna discharge unit, connection to grounding electrodes, and requirements for the grounding electrode.

- 20) When replacement parts are required, be sure the service technician uses replacement parts specified by the manufacturer or those that have the same characteristics as the original part.
  Unauthorized substitutions may result in fire, electric shock or other hazards.
- EXAMPLE OF ANTENNA GROUNDING AS PER THE NATIONAL ELECTRICAL CODE ANTENNA LEAD IN WIRE GROLIND ANTENNA CLAME DISCHARGE UNIT (NEC SECTION 810-20) FLECTRIC SERVICE GROUNDING CONDUCTORS EQUIPMENT (NEC SECTION 810-21) GROUND CLAMPS NEC-NATIONAL POWER SERVICE GROUNDING ELECTRICAL CODE ELECTRODE SYSTEM ELECTR (NEC ART 250, PART H)
- 21) Upon completion of any service or repairs to this unit, ask the service technician to perform safety checks to determine that the unit is in proper operating condition.
- When you connect the product to other equipment, turn off the power and unplug all of the equipment from the wall outlet. Failure to do so may cause an electric shock and serious personal injury. Read the owner's manual of the other equipment carefully and follow the instructions when making any connections.
- 23) Do not allow the product to output distorted sound for an extended period of time. It may cause speaker overheating and fire.

- 24) This reminder is provided to call the cable TV 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.
- 25) Sudden high volume sound may cause hearing or speaker damage. When you use headphones, (if the unit is equipped with a headphone jack) keep the volume at a moderate level. If you use headphones continuously with high volume sound, it may cause hearing damage.
- 26) The mains plug is used as the disconnect and shall remain readily operable.

#### **CONDENSATION**

Moisture will form in the operating section of the unit if the unit is brought from cool surroundings into a warm room or if the temperature of the room rises suddenly. When this happens, unit's performance will be impaired. To prevent this, let the unit stand in its new surroundings for about an hour before switching it on, or make sure that the room temperature rises gradually.

Condensation may also form during the summer if the unit is exposed to the breeze from an air conditioner. In such cases, change the location of the unit.

#### HOW TO HANDLE THE LCD PANEL

- Do not press hard or jolt the LCD panel. It may cause the LCD panel glass to break and injury may occur.
- If the LCD panel is broken, make absolutely sure that you do not touch the liquid in the panel. This may cause skin inflammation.

If the liquid gets in your mouth, immediately gargle and consult with your doctor. Also, if the liquid gets in your eyes or touches your skin, consult with your doctor after rinsing for at least 15 minutes or longer in clean water.

**Possible Adverse Effects on LCD Panel:** If a fixed (non-moving) pattern remains on the LCD Panel for long periods of time, the image can become permanently engrained in the LCD Panel and cause subtle but permanent ghost images. This type of damage is NOT COVERED BY YOUR WARRANTY. Never leave your LCD Panel on for long periods of time while it is displaying the following formats or images:

- Fixed Images, such as stock tickers, video game patterns, TV station logos, and websites.
- Special Formats that do not use the entire screen. For example, viewing letterbox style (16:9) media on a normal (4:3) display (black bars at top and bottom of screen); or viewing normal style (4:3) media on a widescreen (16:9) display (black bars on left and right sides of screen).

The following symptoms are not signs of malfunction but technical limitation. Therefore we disclaim any responsibility for these symptoms.

- LCD Panels are manufactured using an extremely high level of precision technology, however sometimes parts of the screen may be missing picture elements or have luminous spots.
- Do not install the LCD Panel near electronic equipment that produces electromagnetic waves. Some equipment placed too near this unit may cause interference.
- Effect on infrared devices There may be interference while using infrared devices such as infrared cordless headphones.

#### **Declaration of Conformity**

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions:

(1) This device may not cause harmful interference and (2) This device must accept any interference received, including interference that may cause undesired operation.

For questions regarding this declaration, contact:

#### **@**Hitachi America, Ltd.

2420 Fenton Street, Suite 200 Chula Vista, CA 91914-3556 Tel: 800.HITACHI (800.448.2244)

**ATTN: Customer Relations** 

#### Power source

This television is designed to operate on 120 volts 60 Hz, AC current. Insert the power cord into a 120 volts 60 Hz outlet.

To prevent electric shock, do not use the television's (AC) plug with an extension cord, receptacle, or other outlet unless the blades can be fully inserted to prevent blade exposure. Never connect the television to 50 Hz, direct current, or anything other than the specified voltage.

### Warning

To reduce the risk of fire or electric shock, do not expose this apparatus to rain or moisture.

#### Caution

Never remove the back cover of the television as this can expose you to very high voltages and other hazards. If the television does not operate properly, unplug the television and call your authorized dealer or service center.

Adjust only those controls that are covered in the instructions, as improper changes or modifications not expressly approved by Hitachi could void the user's warranty.

#### **LEAD NOTICE**

This product contains lead. Dispose of this product in accordance with applicable environmental laws. For product recycling and disposal information, contact your local government agency or www.eRecycle.org (in California), the Electronic Industries Alliance at www.ecyclingcentral.com (in the U.S.) or the Electronic Product Stewardship Canada at www.epsc.ca (in Canada). FOR MORE INFORMATION, call 800.HITACHI (800.448.2244) (USA/CANADA).

# Child Safety Notice

# **CHILD SAFETY:**

It Makes A Difference How and Where You Use Your Flat Panel Display

Congratulations on your purchase!
As you enjoy your new product, please keep these safety tips on mind:



### **HITACHI CARES!**

- The consumer electronics industry is committed to making home entertainment enjoyable and safe.
- Please note the American Academy of Pediatrics discourages television viewing for children younger than two years of age.
- The home theater entertainment experience is a growing trend and larger flat displays are popular purchases. However, flat panel displays are not always supported on the proper stands or installed according to the manufacturer's recommendations.
- Flat Panel displays that are inappropriately situated on dresser, bookcases, shelves, desks, speakers, chest or carts may fall over and cause injury.

### **TUNE INTO SAFETY**

- One size does NOT fit all. Follow the manufacturer's recommendations for the safe installation and use of your flat panel display.
- Carefully read and understand all enclosed instructions for proper use of this product.
- Don't allow children to climb on or play with furniture and television sets.
- Don't place flat panel displays on furniture that can easily be used as steps, such as a chest of drawers.
- Remember that children can become excited while watching a program, especially on a "larger than life" flat panel display. Care should be taken to place or install the display where it cannot be pushed, pulled over, or knocked down.
- Care should be taken to route all cords and cables connected to the flat panel display so that they cannot be pulled or grabbed by curious children.

# WALL MOUNTING: IF YOU DECIDE TO WALL MOUNT YOUR FLAT PANEL DISPLAY, ALWAYS:

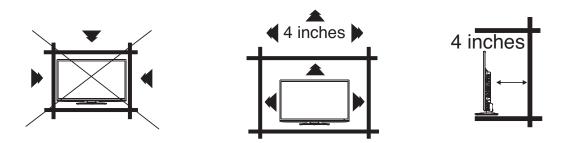
- Use a mount that has been recommended by the display manufacturer and/or listed by an independent laboratory (such as UL, CSA, ETL).
- Follow all instructions supplied by the display and wall mount manufacturers.
- If you have any doubts about your ability to safely install your flat panel display, contact your retailer about professional installation.
- Make sure that the wall where you are mounting the display is appropriate.
- Some wall mounts are not designed to be mounted to walls with steel studs or old cinder block construction.
- If you are unsure, contact a professional installer.
- A minimum of two people are required for installation. Flat panel displays can be heavy.





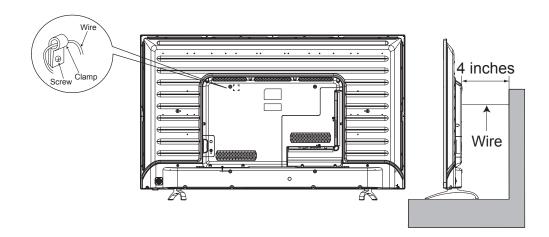
# SAFETY PRECAUTIONS

The unit emits heat when in operation. Do not place any covers or blankets on the unit, this may cause overheating. Do not block ventilation holes, or set up near radiators. Do not place in direct sunlight. When placing on a shelf leave 4 inches (10 cm) free space around the entire unit.



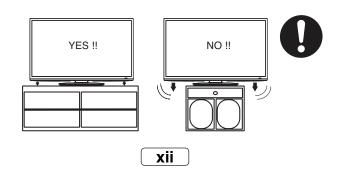
#### Securing to a Wall

- 1 Use metallic wire (not provided), clamp (not provided) and screw on the rear of the TV as shown below.
- 2 Keep the TV 4 inches away from the wall, except when mounted using the wall mount bracket, and secure to the wall as shown below:



#### **NOTICE FOR TV CABINET**

If the unit is placed on a cabinet smaller than the length of the unit, it could result in instability and the unit may tumble over, making a risk of personal, possibly fatal injury. Also, this would seriously damage the product. Accordingly, Hitachi accepts no responsibility or liability for any injuries or property damage resulting from the improper installation.



# Welcome

Congratulations on the purchase of your new Hitachi 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 Netflix, YouTube, Crackle, CNET and literally thousands more.

**Important**: Your TV receives automatic updates from time to time, enabling new content and features. This Owner's Guide describes Roku TV version 7.5. 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**: 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.

## 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, convenient ways to rent or buy a favorite film or show with Google Play and Cineplex and more.
- 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. Personalize your Home screen
  - Put your favorite broadcast TV, streaming channels, gaming console and other devices front-and-center
    on the **Home** screen. No more flipping through inputs or wading through complicated menus. You can
    even personalize the names of each input and move tiles around so your most-often used devices and
    streaming channels are only a click away.
- 4. 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 by movie
    or TV show title, actor or director—all from one place. Search results are organized by price so you can
    always see the best priced option. A paid subscription or other payments may be required for some
    channels.

#### 5. Pause live TV

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

**Note**: Live TV Pause is available on digital TV shows received on the TV's antenna input only, and only when the TV is linked to a valid Roku account.

- 6. 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.

**Note**: The Roku app for Microsoft Windows® mobile devices does not cast videos.

- 7. 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.

**Note**: My Feed is not available in the Roku App for Windows mobile devices.

- 8. 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®, Android™, and Windows mobile devices\*. Browse channels, view My Feed, listen to audio from streaming programs, and even search with voice via the free mobile app.

**Note**: Voice search, Mobile listening, and My Feed are not available in the Roku app for Windows mobile devices.

- Mirror your compatible smartphone or tablet on your TV. Share videos, photos, web pages, and more from compatible devices.
- Use your compatible smartphone or tablet to connect your Roku TV to the types of networks found in hotels and college dorms, where you may have to agree to terms, enter codes, or provide identifying information.

**Note**: 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 control to initiate the connection process. Streaming content might be limited due to your geographic location or because of restrictions imposed by the wireless network host.

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

Let's get started.

<sup>\*</sup> IOS® is a trademark or registered trademark of Cisco in the U.S. and other countries and is used under license. Android™ is a trademark of Google Inc.

Windows® is a registered trademark of Microsoft Corporation in the United States and other countries.

# Connections and setup

## Set up your new TV

### Remove your TV from the box

Be careful, it's heavy!

#### To mount on a wall

Before wall mounting, please carefully check the location of the TV's mounting-holes.

Follow the instructions that come with the wall mount.

Contact the retailer where you purchased the TV for advice, and have the equipment professionally installed. Incomplete or improper installation may cause injury to you, and/or damage to the TV. ISO M6 x12 thread type screws should be used. The insertion length must be within 10~13mm. If the insertion length is less than or more than specified above, the weight can not be maintained or a space is created between the Wall Mount Bracket and the Television.

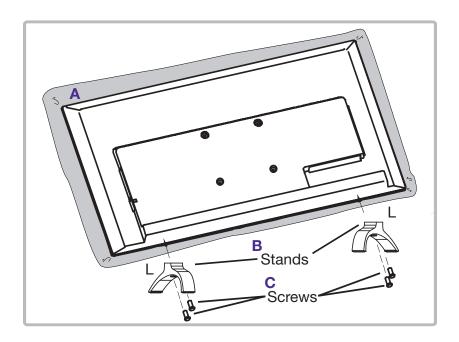
(Insertion Length) = (Screw Length) - (Washers Thickness) - (Mounting Bracket Thickness)

**Note**: The wall mount bracket and the screws are not included.

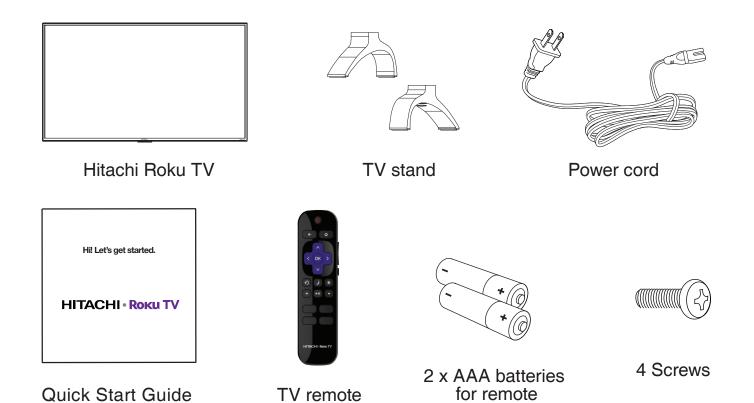
**Note**: Store the stand and stand screws in a safe place in case you decide to use the stand in the future.

#### To use the stand

- A To prevent damage to the screen, carefully place your TV on a soft, cushioned surface.
- B Put the column of the stands into the TV, align the stands with the screw holes located on the TV.
- C Secure the stands to the TV with four (4) screws.



## What's in the box



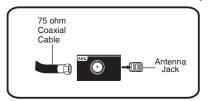
## Connect your TV

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

#### Antenna connections

If you are using an indoor or outdoor antenna, follow the instructions below that correspond to your antenna system. If you are using a Cable TV service, see Cable TV connections.

#### Combination VHF/UHF Antenna (Single 75 ohm cable)

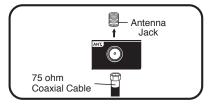


Connect the 75 ohm cable from the combination VHF/UHF antenna to the Antenna Jack.

#### Cable TV connections

This TV has an extended tuning range and can tune most cable channels without using a Cable TV Converter box. Some cable companies offer "premium pay channels" where the signal is scrambled. Descrambling these signals for normal viewing requires the use of a descrambler device which is generally provided by the Cable TV company.

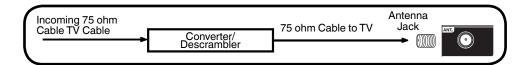
#### For subscribers to basic Cable TV service



For basic Cable TV service not requiring a Converter/Descrambler box, connect the 75 ohm Coaxial Cable directly to the Antenna Jack on the back of the TV.

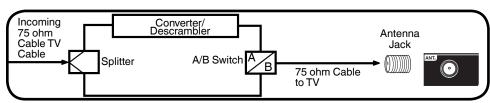
#### For subscribers to scrambled Cable TV service

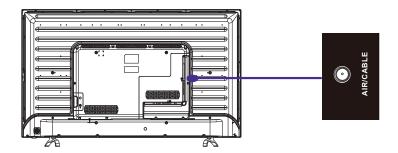
If you subscribe to a Cable TV service which requires the use of a Converter/Descrambler box, connect the incoming 75 ohm Coaxial Cable to the Converter/Descrambler box. Using another 75 ohm Coaxial Cable, connect the output jack of the Converter/Descrambler box to the Antenna Jack on the TV. Follow the connections shown below. Set the TV to the output channel of the Converter/Descrambler box (usually channel 3 or 4) and use the Converter/Descrambler box to select channels.



#### For subscribers to unscrambled Cable TV service with scrambled premium channels

If you subscribe to a Cable TV service in which basic channels are unscrambled and premium channels require the use of a Converter/Descrambler box, you may wish to use a signal Splitter and an A/B Switch box (available from the Cable TV company or an electronics supply store). Follow the connections shown below. With the switch in the "B" position, you can directly tune any non-scrambled channels on your TV. With the switch in the "A" position, tune your TV to the output of the Converter/Descrambler box (usually channel 3 or 4) and use the Converter/Descrambler box to tune scrambled channels.





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

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

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

### Connecting a device with a composite AV video cable

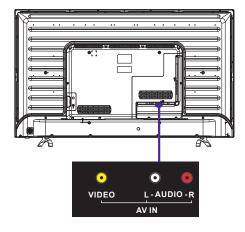
If the best connection available on your device is AV or composite video output, connect it to the TV using a composite AV cable (not provided). Composite AV cables typically have three RCA-type plugs on each end, color coded as follows:

• Yellow: Video

• Red: Audio, right channel

• White or black: Audio, left channel

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

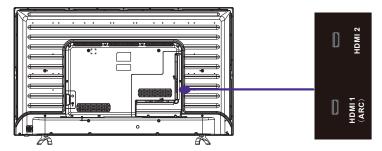


### Connecting a device with an HDMI cable

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

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

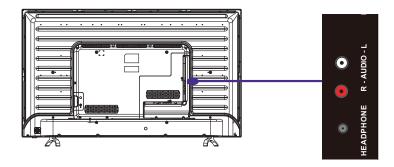
The connector labeled **HDMI IN (ARC)** has the additional ability to use the Audio Return Channel to send digital audio to a receiver or sound bar, as explained in "Connecting an AV receiver or digital sound bar" on page 8



## Connecting headphones or analog sound bar

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

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



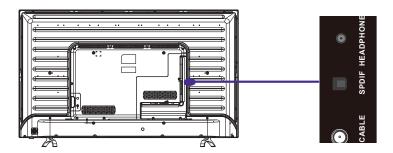
**Warning:** Loud noise can damage your hearing. When using headphones, use the lowest volume setting on your headphones that still lets you hear the sound.

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

## Connecting an AV receiver or digital sound bar

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

- **Digital optical audio out (S/PDIF)** Connect a TOSLINK optical cable (not provided) from the TV to the Optical input on your receiver or sound bar.
- **HDMI ARC** Connect an HDMI cable (not provided) from the HDMI (ARC) connector to the HDMI input on your receiver or sound bar. This connection uses the Audio Return Channel (ARC) feature of the HDMI specification to output sound from the TV to a compatible device. To use this feature, you must configure the TV to enable HDMI ARC, as explained in "Enabling HDMI ARC" on page 61.



### Preparing for Internet connectivity

If you want to connect your TV to the Internet to watch streaming content, you can choose either a wireless or a wired connection.

- Wireless connection To use a wireless connection, make sure you know the name (SSID) and password you use to connect to your wireless modem/router or wireless access point.
- **Wired connection** To use a wired connection, plug your Ethernet cable into the RJ-45 jack on the back of the TV. The wired connection supports both 10 and 100 Base-T Ethernet

For wireless operation, the TV connects through a built-in wireless LAN adapter. The TV does not support the use of a USB network adapter.

**Note**: We recommend that your wireless connection support IEEE 802.11 dual band capability for the best experience.

## **AC** power

Plug your TV into a power outlet. You can tell that the TV has power because the status light on the front of the TV lights up.

"Status light" on page 29 explains how the status indicator shows what is happening with the TV.

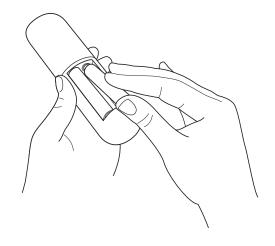
## Remote control batteries

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

"<u>Watching broadcast TV channels</u>" on page <u>29</u> explains how to use the remote control in each of the TV's operating modes.

#### How to install batteries

- 1. Open the battery compartment cover.
- 2. Install two "AAA" batteries (supplied).
- 3. IMPORTANT NOTE: Carefully match (+) and (-) indication on the battery with the (+) and (-) inside the battery compartment.
- 4. Replace the battery compartment cover.

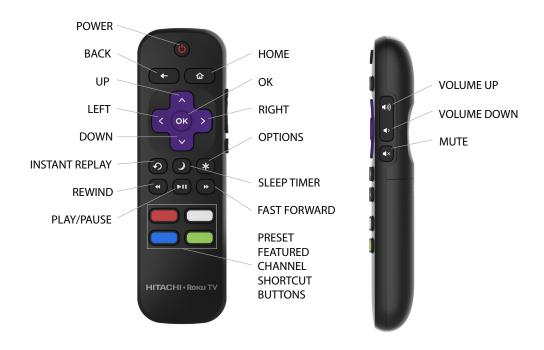


#### **BATTERY PRECAUTIONS**

These precautions should be followed when using batteries in this device:

- The batteries may last approximately one year depending on how much the remote control is used. Replace batteries when the remote operation becomes erratic.
- Use only the size and type of batteries specified.
- Be sure to follow the correct polarity when installing the batteries as indicated in the battery compartment. Reversed batteries may cause damage to the device.
- Do not mix different types of batteries together (e.g. Alkaline, Carbon-zinc or Rechargeable) or old batteries with fresh ones.
- If the device is not to be used for a long period of time, remove the batteries to prevent damage or injury from possible battery leakage.
- Do not try to recharge batteries not intended to be recharged; they can overheat and rupture. (Follow battery manufacturer's directions.)
- Please use caution when inserting batteries to avoid battery damage. If the spring terminal in the remote control remains in contact with a side of a damaged battery it can cause a short circuit. Never use damaged batteries as they can become very hot and are dangerous.
- Never expose batteries (battery pack or batteries installed) to excessive heat such as sunshine, fire or the like.

## Roku TV Remote control



Hitachi Roku TV IR remote control

# Getting around

You've already done a bit of navigating with the remote control when you completed the Guided Setup and when you set up Antenna TV. This section explains how to use the remote control for everyday TV use.

Button	Function	Description
POWER		Turns TV on and off.
(b) (+ (a)	ВАСК	<ul> <li>Menu: Goes back to previous menu/screen.</li> <li>Home screen tile: Moves highlight back to the Home menu option.</li> <li>Watching Antenna TV or a TV input: Returns to the screen from which the input was selected.</li> </ul>
		<ul> <li>Playing streaming content: Stops playing stream and returns to the previous menu or screen.</li> <li>Browsing streaming content: Goes to the previous level in the content tree.</li> </ul>
	HOME	Immediately returns to the <b>Home</b> screen menu.

Button	Function	Description
	PAD	LEFT/RIGHT/UP/DOWN moves the highlight in the corresponding direction.
< ок >		OK selects the highlighted option. While watching TV:
		While watching TV:
· ·		UP/DOWN changes channel.
		LEFT displays your channel list.
		RIGHT dismisses channel list.
		OK displays program information banner.
(a)	INSTANT REPLAY	Streaming programs that support this feature and broadcast TV 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.
	SLEEP	Displays a banner showing the remaining sleep time, if any, or <b>Sleep timer is off</b> . Subsequent presses cycle among the preset sleep time intervals. Once set, the sleep timer remains in effect regardless of what you are watching.
(4) (b) (b)	MEDIA PLAYBACK CONTROLS	Rewind, pause, play, and fast forward streaming content and broadcast TV (if Live TV Pause is enabled).
		Press <b>REWIND</b> or <b>FAST FORWARD</b> one, two, or three times to control the speed of the operation.
		<b>REWIND</b> and <b>FAST FORWARD</b> also jump backward and forward one page at a time when viewing long lists, such as your channel list.
) * " *	OPTIONS	Displays additional options when available.
	PRESET FEATURED	Dedicated buttons show the logo of a preset streaming content provider. Pressing a button:
	CHANNEL SHORTCUT	Displays the streaming channel's main page if you have already added the channel to your <b>Home</b> screen.
		Displays the streaming channel's sign-up page if you have not already added the channel.
a	VOLUME/	Increases/decreases volume and mutes the TV sound.
OK >	MUTE	Note: If the TV is muted, pressing VOLUME UP unmutes. Pressing VOLUME DOWN does not unmute the sound.
	J	

## Panel buttons

The controls on the TV enable you to perform simple functions, but are not a substitute for the remote control. The jog controller on the back corner of your TV provides the following functions:

< Q >

- Press in to toggle between power ON and Standby.
- Press up or down to increase/decrease the volume.
- Press left or right to switch inputs.

# **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.

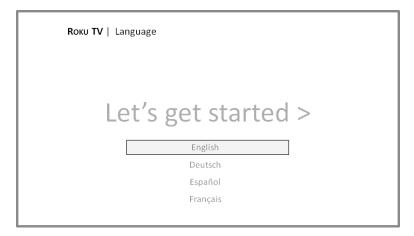
**Note**: Guided Setup runs only once, the first time you turn on your TV. If you need to run Guided Setup again, you'll have to perform a factory reset, as explained in "Factory reset everything" on page 62.

## **Starting Guided Setup**

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

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 light 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 light blinks slowly for a few more seconds. The power-on screen displays the Hitachi Roku TV logo while the TV starts up.
- 3. After a few seconds, Guided Setup starts:



**Tip**: On TVs sold in the United States, if you are blind or visually impaired, you can activate the 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 control four times in rapid succession. Repeat to disable the Audio Guide. (The \* button is located directly below the directional pad on the right side of the Roku remote control.)

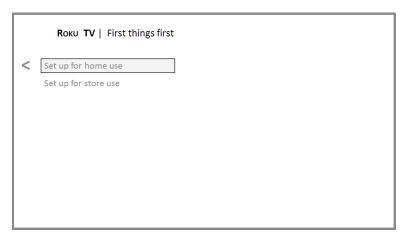
For more information on using the Audio Guide and adjusting its settings, see <u>Configure accessibility</u> on page 47.

4. Press the **DOWN** button on the remote control to highlight your preferred language.

## Setting up your TV

With the first Guided Setup screen on your TV, follow these steps to set it up:

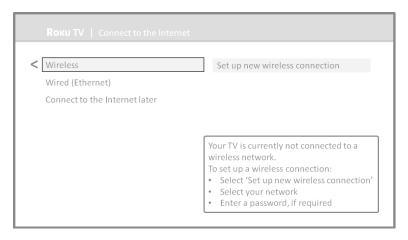
1. Press **OK** or the **RIGHT** arrow on the remote control to go to the next screen:



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

**Note**: Store mode configures the TV for retail display and is not recommended for any other use. In store mode, some features of the TV are missing or limited. To switch from one mode to the other, you have to perform a factory reset as explained in "Factory reset everything" on page 62, and then repeat the Guided Setup.

After you select **Set up for home use**, the TV prompts you to select the way you want to connect to the Internet.



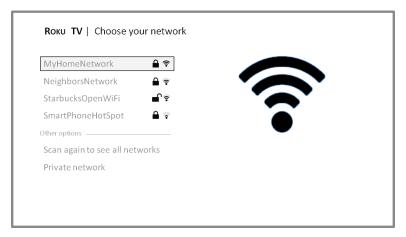
- 3. Make a selection:
  - Wireless connection Highlight Set up new wireless connection and press OK. The TV prompts you through wireless setup. Go to Step 4 for help with the process.
  - Wired connection Highlight Connect to wired network and press OK. The TV immediately attempts to connect to your wired network, your local network, and then the Internet. Go to Step 8 to continue with Guided Setup.

• Connect to the Internet later – If you're unable to connect to the Internet, that's OK. You can skip this step and use the TV to watch broadcasts, play games, and watch DVDs. If you want to connect later, it's easy. We'll show you how in "Benefits of connecting" on page 22.

**Note**: If you decide not to connect, Guided Setup skips ahead to setting up the devices that you've connected to your TV. See "Non-connected Home screen" on page 21 to get started using your non-connected TV.

**Note**: Some networks, such as those often 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. If the 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 "<u>Using your TV in a hotel or dorm room</u>" on page <u>35</u>.

4. After you select **Set up new wireless connection**, 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.



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

#### Other options:

- Scan again / Scan again to see all networks This option depends on the number of wireless networks within range.
  - Scan again appears if the list already shows all available wireless networks within range. If you don't see your wireless network name in the list, you might need to adjust the location of your wireless router or the TV, turn on your router, or make other changes. When everything is ready, select Scan again to see if your network name now appears in the list.
  - Scan again to see all networks appears if there are more wireless networks than the strongest ones it initially listed. If you don't see your wireless network name in the list, this option displays the complete list. If you still don't see your network name, you might have your router configured to provide wireless service as a "private network."

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

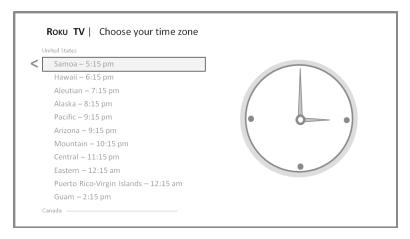
• **Private network** – If your wireless network name is hidden, it won't appear in the list. Select **Private network** to display an on-screen keyboard, and use it to enter your network name. Unless you changed the factory-set network name, you can find the name (also called SSID) on a label on the router.

6. If you select a wireless network that is password-protected, an on-screen keyboard appears. Use the keyboard to enter the network password.

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



- 7. 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.
- 8. Your TV needs to know the local time zone so that it can correctly display time 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. Use the **UP** and **DOWN** arrows to highlight your time zone, and then press **OK**.



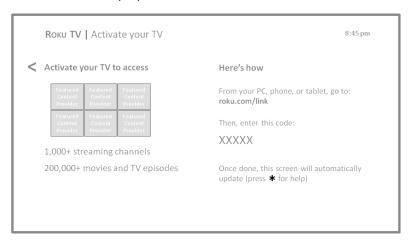
9. As soon as the TV is able to connect to the Internet, it downloads and installs its first software update, and then restarts.

**Tip**: Your TV automatically checks for updates periodically. These updates provide new features and improve your overall experience with the TV. After an update, you might notice that some options have moved, and that there are new options or features. This Owner's Guide describes version 7.5. To determine your current Roku TV software version, go to **Settings > System > About** after you complete Guided Setup.

You can download an updated Owner's Guide that matches your Roku TV software version from the Hitachi Roku TV web site at:

www.hitachi.us/tv

#### After the TV restarts, it displays the **Activation** screen:



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

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.

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

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

#### Why do I need a Roku Account?

You need a Roku account for several reasons.

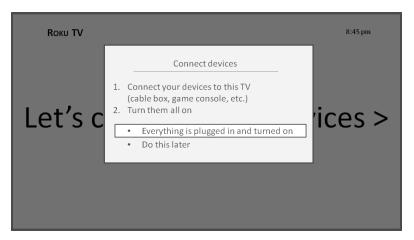
- It links you, your Roku TV and your other Roku streaming devices to the Roku Channel Store and billing service.
- Streaming content providers know that it's OK to send content you request to your Roku TV.
- Roku can automatically send updates to your device.

Important: When you set up a Roku account, you must register a payment method. Adding a payment method now lets you easily rent or buy movies on demand, or try popular paid subscription or transaction-based streaming channels. You won't be charged unless you agree to the terms and cost of the content. If you are concerned about unauthorized charges, you can set up a PIN that you must enter to authorize each charge.

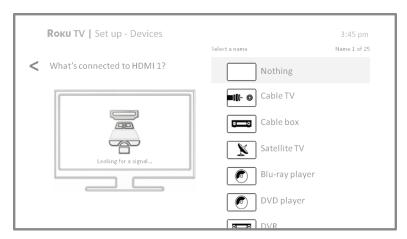
After it adds your selected streaming channels, the TV helps you set up the devices that you're connecting to it, such as a cable box, Blu-ray player, or game console:



11. Press the **OK** or **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, and then press **OK** to move on to the next input.

You're done with Guided Setup.



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

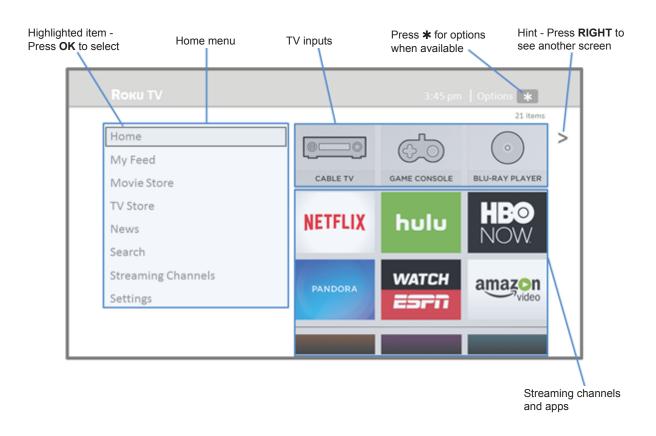
When you finish Guided Setup, and whenever you press **a** on the remote control, the **Home** screen greets you.

From here, you can explore everything your TV has to offer. Press the arrow buttons 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.

If you find yourself a long way from the **Home** screen, you can always get back right away by pressing one button: **\( \Delta \)** .

## Connected Home screen

Here is a typical **Home** screen from a Roku TV that's connected to the Internet and linked to a Roku account.



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

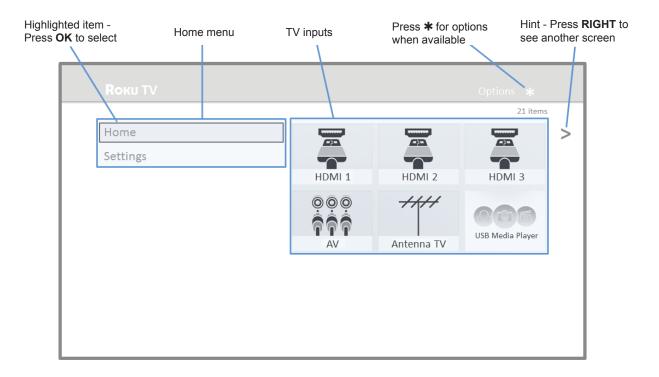
## Personalize your Home screen

You can do a lot to personalize your **Home** screen and make it just right for you and your family:

- Add streaming channels by using the Streaming Channels menu option to browse the Roku Channel Store.
- Remove a tile by highlighting it and pressing \*. Then highlight Remove input or Remove channel and press OK.
- Reposition a tile by highlighting it and pressing \*. Then highlight Move input or Move channel and press OK.
   Use the arrow buttons 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.
- Change the screen theme by going to Settings > Themes to find and pick one to suit your mood.
- Hide Movie Store, TV Store, or News, as explained in "Blocking Movie Store, TV Store, and News" on page 53.

## Non-connected Home screen

Here is a typical **Home** screen from a Roku TV that is not connected to the Internet.



## Personalize your Home screen

You can do a lot to personalize your **Home** screen and make it just right for you and your family:

- Remove a tile by highlighting it and pressing \*. Then highlight Remove input and press OK.
- Reposition a tile by highlighting it and pressing \*. Then highlight Move input and press OK. Use the arrow buttons to move the tile, and then press OK to lock it in its new location.
- Rename a 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.
- Add streaming channels by browsing the Roku Channel Store (after connecting the TV to the Internet to add the **Streaming Channels** option to the menu).

# 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, Cineplex Store, Crackle, and more\*. 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 Spotify and VEVO. 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 Cineplex Store, 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 Netflix, Spotify, DailyBurn Fitness, and many more. REMEMBER THAT YOU MUST CANCEL BEFORE THE FREE TRIAL ENDS TO AVOID SUBSCRIPTION FEES.

#### Take advantage of awesome features

**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.

**Mobile Private Listening** on the Roku app lets you listen to streaming programs on headphones (not provided) plugged into your mobile device .<sup>†</sup>

**Automatic Media Player Launch** automatically starts the Roku Media Player when you insert a USB drive (not included) with a recognizable file system (such as FAT16/32, NTFS, HFS+ or EXT2/3).

<sup>\*</sup>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.

<sup>†</sup> 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 whatever you are watching. You can also replay the last few seconds again, or turn on closed captions.

**Tip**: Some content cannot be paused or skipped. For example, if you are viewing live programming or a program that is supported by ads, you generally are not 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 Cineplex and Amazon Video, let you purchase or rent the latest movie releases or popular TV series. Some channels such as Netflix or Spotify 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. For example, HBO subscribers with participating broadcast TV provider accounts can add the HBO Go channel and watch it at no additional cost.

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

To play streaming content that is available on the Internet, you add streaming channels to your **Home** screen. To add a streaming channel 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 streaming channel is then added to your **Home** screen, and you can watch it at any time.

For more information on using the Roku Channel Store feature, see "Using the Roku Channel Store" on page 46.

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

## But 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.

Regardless of how you connect, the process is the same. If you need details, see "Setting up your TV" on page 14.

# Setting up Antenna TV

Despite all of the entertainment possibilities of your Roku TV, you may also want to watch broadcast TV. You can watch broadcast TV in much the same way you watch other entertainment choices. You select a tile—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 broadcast TV channel list.

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

You might be asking, "Why is this step necessary?" Good question.

Not everyone needs to use the TV tuner. For example, you might have a set top box provided by a cable or satellite company that receives all of your channels. Most of these set top boxes use an HDMI connection.

More and more people are watching only streaming TV and do not have a TV antenna or cable/satellite service. If you don't need the TV tuner, you can bypass setting it up and instead remove it from the **Home** screen as explained in "Remove unwanted tiles" on page 48.

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 will, however, let you add two analog channels, even if they have no signal. You might need to add these channels if you have an older set top box, VCR, or game console that can only output a signal on analog channel 3 or 4. These are the only channels that can be added regardless of whether they have a good signal. 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 broadcast TV channel lineup" on page 48.

## How do I set up the TV tuner?

Setting up the TV tuner is easy—your TV does most of the work. You just have to answer a couple of questions.

- 1. Make sure your antenna (sold separately) or TV cable is connected to the TV's AIR/CABLE input.
- 2. On the **Home** screen, select the **Antenna TV** tile.
- 3. Read the simple on-screen instructions and select **Start finding channels**.



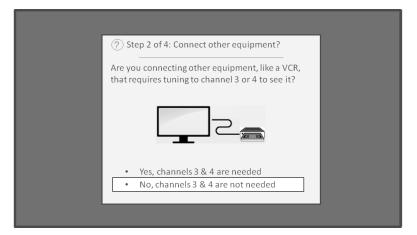
4. If prompted, select your time zone. You'll only need to do this if the TV can't figure out your time zone from your Internet connection.



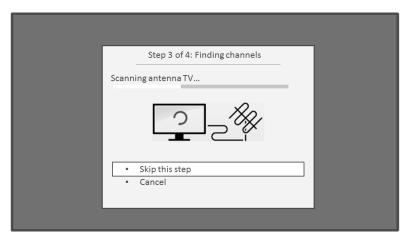
Why does the TV need my time zone?

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 (to enable you to connect older set top boxes, VCRs, or game consoles).



6. Wait while your TV scans for broadcast (antenna TV) stations...



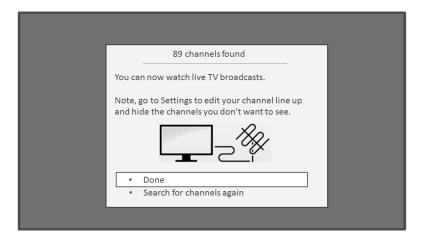
... and then cable TV channels.



Scanning for channels can take several minutes.

**Tip**: Cable TV channels are channels from a cable TV provider that you can receive by connecting their cable directly to your TV (unscrambled NTSC, ATSC, and QAM channels, if you're the kind of person who is interested in the details). In many cases, your cable provider probably requires you to use their set-top box and connect it to a different input, and then use the set-top box to tune your cable stations. In that case, you can skip scanning for cable channels.

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



8. If you connected your TV to the Internet, you have the option of setting up Live TV Pause. "Pausing Live TV" on page 31 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.

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

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

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

- Press the **UP** and **DOWN** arrows to change channels.
- Press the **LEFT** arrow to display the channel list 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 a page at a time.
- Press **OK** to display information about the current program.
- Press of to switch to the previously tuned channel.
- Press \* to see options for picture and sound settings.

**Note:** If  $\mathfrak O$  is not available on your remote control, you can use  $\mathfrak O$  on the Roku App or the Jump Back button on a universal remote. For more information, see "<u>Other devices</u>" on page <u>66</u>.

# Using your TV

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

## Status light

Your TV has a single status light on the front panel. 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 control command received	Dims on/off once	TV has received your command.
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 may remain 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 bit longer to start up.

## Watching broadcast TV channels

To watch broadcast TV, select the **Antenna TV** tile in the **Home** screen. Your TV remembers the last channel you watched and starts with that channel playing.

**Tip**: You also can use the buttons on the TV panel to select Antenna TV, as explained in "Standby mode energy savings" on page 29.

#### 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, and then press the UP and DOWN arrows to move the highlight
  through the list one channel at a time. Or press REWIND and FAST FORWARD to move the highlight through the
  list one page at a time. When you've highlighted the channel you want to watch, press OK. (If you decide you
  don't want to change channels, press the RIGHT arrow or BACK button).
- Press → to jump to the previous channel. Press again to return to the channel you were watching before you pressed →.

**Note:** If  $\mathfrak O$  is not available on your remote control, you can use  $\mathfrak O$  on the Roku App or the **Jump Back** button on a universal remote. For more information, see "Other devices" on page <u>66</u>.

#### Viewing program information

To view information about the current program, press **OK**. The TV displays a banner at the bottom of the screen with as much information as is available in the program data stream, as shown in the following example.



**Program information banner** 

Program information, subject to availability within the broadcast information, includes:

- Channel number
- Channel call sign
- Signal strength
- Program title
- Start time, end time, and graph of program length showing current position
- Content rating
- Video resolution (480i, 480p, 720p, 1080i, 1080p, 2160p(4K))
- Dolby Audio™
- Audio features (SAP)
- 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**: If you've set up Live TV Pause, and you're watching broadcast 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" on page <u>31</u>.

#### Adjusting settings

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. "Adjusting TV settings" on page 37 explains each of the settings in detail.

## Pausing Live TV

Using Live TV Pause, your Roku TV gives you the ability to pause, play, fast forward, and rewind digital broadcast TV. You can pause live 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 "<u>But what if I didn't connect my TV?</u>" on page <u>24</u>.
- 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. However, using a larger drive does not extend the 90 minute pause time.

**Important**: All existing content on your USB drive are erased when you enable this feature.

3. Enable Live TV Pause

#### **Enabling Live TV Pause**

You can enable Live TV Pause in several 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 the Play/Pause button on the Roku remote while watching a digital broadcast TV channel.
- Highlight the Antenna TV tile on the Home screen, press \* on the remote control, and then select Enable Live
   TV Pause.

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

**Note**: Use of a USB hub is not supported.

#### Using Live TV Pause

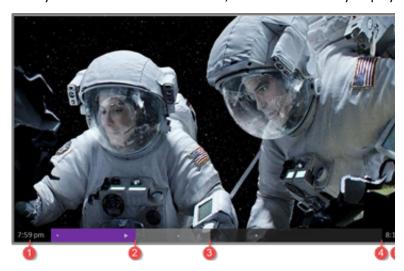
Your TV automatically detects when you connect a new device to an HDMI input and turn on its power. The input is automatically added to the **Home** screen if it isn't already present.

You can enable Live TV Pause in several ways:

- While watching a digital broadcast TV channel, press the **PLAY/PAUSE** button 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 the **INSTANT REPLAY** button to play back the last several seconds of the program

**Note**: If ♠ is not available on your remote control, you can use ♠ on the Roku App or the Jump Back button on a universal remote.

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 Antenna
  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.

## Switching TV inputs

Switch to a TV input 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, appears on the screen.

**Tip**: You also can use the buttons on the TV panel to select a TV input, as explained in "<u>Standby mode energy savings</u>" on page <u>29</u>. "<u>Customizing your TV</u>" on page <u>47</u> explains how to rename and remove inputs.

#### **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. "Adjusting TV settings" on page 37 explains each of the settings in detail.

## Playing content from USB storage devices

Your TV has a USB port that can be used to play personal music, video, and photo files from a personal USB flash drive or hard disk. If your TV is connected to the Internet, your **Home** screen has the **Roku Media Player** tile. If your TV has not been connected to the Internet, the Home screen has the **USB Media Player** tile.

To use this feature, first 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, see:

https://support.roku.com/article/208754908-Roku-Media-Player-Playing-your-personal-videos-music-photos

<sup>\*</sup> 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

If your TV is connected to a Roku account, you can set it 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
  - o **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.
  - o **On** Always launch the Roku Media Player whenever you connect a recognized USB drive.
  - o 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

If you have connected your TV to a network, it 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

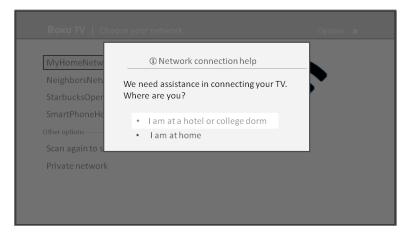
Hotels, school dorms, conference facilities, and similar locations with public wireless Internet access often require you to interact with a web page to authenticate your access. These restricted public networks are commonly known as captive portal networks. When you select a network of this type, the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

#### Tips:

- Using your Roku TV on a hotel or dorm room network requires wireless availability and use of your network-connected smartphone, tablet, or computer to authenticate access to your wireless access point
- Your TV must already be running software version 7.0 or later. You can find the version number by navigating from the Home screen to Settings > System > About. If it is running an earlier software version, you must use a non-restricted network to link and activate the TV, and then update the software to version 7.0.
- Be sure to bring your Roku TV remote control, because the Remote feature of the Roku mobile app may not work when connected to a hotel or dorm room network.
- Content might be limited or unavailable if you try to connect outside your home country due to geo-filtering.

#### To connect your TV to the restricted 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**: Your TV can connect to a restricted network only if **Device connect** is enabled 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:** *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:** 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:** 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.

# Adjusting TV settings

You can adjust most picture and sound settings while you are watching a program by pressing \* to display the **Options** menu. If you don't find what you need, there are 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, each separate HDMI input, and the AV input have their own settings that the TV remembers when you return to that input. The TV also remembers the settings you specify while viewing streaming content.

## Settings menu

Use the **Settings** menu to adjust overall TV settings. Press **t** 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 If the lighting level in your TV room changes, use this setting to help provide a better viewing experience; set to darker for a darker room, and brighter for a brighter room. Choose among Normal and four other settings to make the overall picture brighter or darker. So that you don't have to make this type of change for each TV input one at a time, this setting increases or decreases the TV's general brightness across all TV inputs. This setting is identical to the TV brightness setting you can access in the Options menu while watching a program.
- Settings per input This section of options lists each TV input. Select an input to switch to that input. Then press
   \* to display the Options menu, where you can adjust the input's settings while watching a live picture and listening to the sound from that input.

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

## Options menu

The **Options** menu for each TV input provides 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. The **Options** menu is a panel that appears over the left side of the screen:



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 notice the changes you make right away in picture appearance or audio quality.

**Tip**: When you highlight a setting, the header text explains the effect of its current value. When you begin to adjust a setting, the other options are hidden so you can see more of the screen. Even though the other settings are hidden, you can move the highlight up or down to adjust the other settings.

#### Options menu settings

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

**Note:** If the Instant Replay  $\Omega$  button is not available on your remote control, you can use  $\Omega$  on the Roku App or the **Jump Back** button on a universal remote. For more information, see "<u>Other devices</u>" on page <u>66</u>. Additional captioning options are provided in **Settings > 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.

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

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## **Accessibility**

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**.

Models sold in US only: To enable the Audio Guide, press the \* button on the remote control four times in rapid succession. Repeat to disable the Audio Guide. (The \* button is located directly below the directional pad on the right side of the Roku remote control.)



#### Accessibility mene 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**: If Shortcut is enabled, you can enable or disable the Audio Guide by pressing the Option button **★** four times in quick succession.

- 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 the **Option** button **\*** 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.
  - o Antenna TV Turn captions on or off, or set them to appear only when the TV sound is muted.
  - AV input Turn captions on or off, or set them to appear only when the TV sound is muted.
  - Streaming video channel Turn captions on or off, set them to appear only when the TV sound is muted, or only during instant replay (for streaming content that supports instant replay).

**Note:** If the Instant Replay  $\Omega$  button is not available on your remote control, you can use  $\Omega$  on the Roku App or the **Jump Back** button on a universal remote. For more information, see "Other devices" on page 66. Additional captioning options are provided in the **Captions** screen in **Settings**.

- **Captioning track** 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.

## 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**.



To adjust the settings on the **Advanced picture settings** 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 notice the changes you make right away in picture appearance.

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

#### 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 these same 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, the HDMI 1 input's Movie picture mode can be customized and different 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 current picture mode to its original values.
- Dynamic Contrast Automatically adjusts the backlight level to achieve the optimum contrast and prevent
  excessive differences between light and dark areas of the screen. The Backlight option is disabled when Dynamic
  Contrast is enabled.
- **Backlight** Adjusts the overall light intensity of the screen.
- Brightness Adjusts the black level of the dark 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**).
- **Game mode** Controls whether Game mode is on or off. When **On**, the TV performs less image processing and has less input lag. When **Off**, the TV may perform more image processing and has more input lag, which is less desirable for action games. Available only for HDMI and AV inputs.
- Reset picture settings Returns all picture settings for the input's currently-selected Picture mode to their original values.

**Tip**: 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**

Your Roku TV has additional picture settings for demanding home theater enthusiasts, including 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 "Using Expert Picture Settings in the Roku Mobile App."

## Changing privacy settings

By default, when connected to the Internet and activated with your Roku account, the TV uses an advertising identifier to track your usage behavior. You can change the privacy settings on your TV in two ways: resetting the advertising identifier and limiting ad tracking.

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

#### Resetting the advertising identifier

Resetting the advertising identifier has the effect of clearing your prior usage history and starting over. From that point forward, your new usage patterns affect the advertisements you see on your TV.

#### To reset the advertising identifier:

- 1. From the **Home** screen menu, navigate to **Settings > System > Privacy**.
- 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.

#### Limiting 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.

#### To limit ad tracking:

- 1. From the **Home** screen menu, navigate to **Settings > System > Privacy**.
- 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** option.

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

# My Feed

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 for streaming. 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" on page 44.

**Note**: 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** menu means that My Feed has updated information that you haven't viewed yet. For example, you if three of your followed shows have updates, you'll see **My Feed** (3).

**Note:** 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.

**Tip:** My Feed is available only if your TV is connected to the Internet.

# Searching for something to watch

Searching for movies and shows across multiple streaming channels is one of the unique features of your Hitachi 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

**Tip:** Roku Search is available only if your TV is connected to the Internet.

**Note**: 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, but include popular providers such as Netflix and several others, with more being added all the time.

You can check which streaming channels are included in Roku Search by going to the **Search** screen, clearing all previous searches to reveal the search instructions, and then watching the channel tiles cycle at the bottom of the screen.

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

### How do I search?

To search, use the arrow buttons 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 and the search results become more relevant.

**Tip**: Use the free Roku mobile app on your compatible smartphone or tablet to make searching even faster. Not only can you use your device's keypad to type, you can search simply by touching the voice search icon and saying the name of the movie, TV show, actor or director, channel, or game.

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

- Press the RIGHT arrow to move the highlight into the list of search results.
- Press the UP and DOWN arrows to scroll through the list of search results to highlight the item you want to view.

## 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.

- 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: 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" on page <u>43</u>.

#### Recent Searches

The 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.

# Using the Roku Channel Store

The **Streaming Channels** menu option takes you to the Roku Channel store, where you can add new paid and free streaming channels to your TV.

#### Tips:

- The Streaming Channels menu option is available only if your TV is connected to the Internet.
- You also can search for streaming channels by using the Search option, as explained in "Searching for something to watch" on page 44.

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 only have to 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**: New streaming channels are added continuously, so be sure to check back every now and then.

**Note:** 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" on page 63.

# Customizing your TV

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

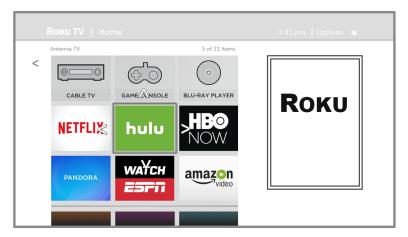
## Rearrange tiles

Whenever you add a TV input tile, it's added at the top of your **Home** screen. Whenever you add a new streaming channel from the Roku Channel Store, 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.

Rearranging tiles is easy:

- 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



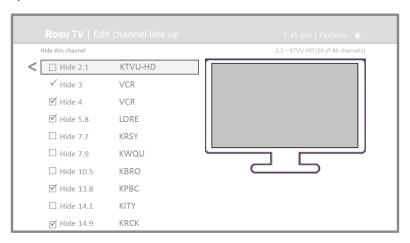
Note: A paid subscription or other payments may be required for some channels. Channel availability is subject to change and varies by country. Not all content is available in countries or regions where products with Roku OS are sold.

- 4. Use the arrow buttons 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.

## Edit broadcast TV channel lineup

When you set up the TV tuner as described in "Setting up Antenna TV" on page 25, the TV adds all the channels with good signals that it could 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 high-lighted channel's picture and sound.



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

**Tip**: 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.

## 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 component.

**Note**: 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.

Press **\( \Phi \)** 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**: 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 broadcast TV channel list. You'll have to set up the TV tuner again next time you want to view broadcast TV. Instructions for setting up the TV tuner can be found in "Setting up Antenna TV" on page 25.

- 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.

## Change themes

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.

**Tip**: Themes are available only when your TV is connected to the Internet. 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.
- 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 always uses your selected theme.

## Change sound effects volume

Sound effects are the noises the TV makes to let you know it received your command. You can change the volume of sound effects or turn them off.

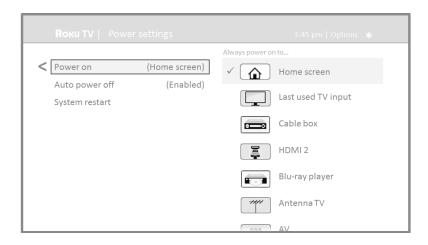
To adjust the sound effects volume, in the **Home** screen menu, navigate to **Settings > Audio > Menu volume**. Navigate to the right and then change the setting to **High**, **Medium**, **Low**, or **Off**.

## Configure power settings

Power settings let you set up your TV so that it turns on to the location you choose. Power settings also help your TV save energy by automatically turning it off under certain conditions.

## 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 menu, navigate to **Settings > System > Power > Power on**. Highlight the power on location from the list, and then press **OK** to select it.



#### 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 LED on the front of your TV is lit whenever the TV is in standby mode. If you prefer the status LED 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 LED still performs all other indication functions

## Configure accessibility

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

#### Captions mode

Captions mode specifies 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 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**: Themes are available only when your TV is connected to the Internet. Some themes require payment.

- You can change the captions mode while watching a program. To do so, 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**: Once enabled, the captions mode applies to all inputs that support captions and remains enabled until you turn it off.

#### Captions style

Captions style lets 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

On TVs sold in the United States, the 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. The 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 the 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 the Option button **\*** four times in quick succession enables or disables the Audio Guide.

## Configure 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**: 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**: 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 buttons and the **OK** button 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" on page 62. Be sure to write it down in a safe place just in case.

#### Blocking Movie Store, TV Store, and News

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 "Movie Store and TV Store" Removes the Movie Store and TV Store options from the Home screen menu.
  - **Hide "News"** Removes the **News** option from the **Home** screen menu.

**Tip**: 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: 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**: 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**: 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 Régie du cinéma du Québec. 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 are assigned a rating of "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**: Blocking programs that have been assigned a rating of "Unrated" does not block programs that have no rating assigned to them (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).

#### 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.

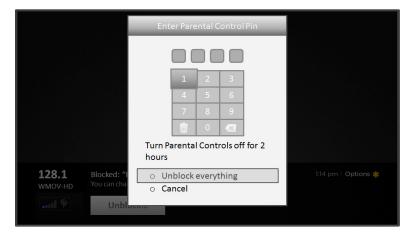
When a program is blocked by parental control settings, the TV displays a blocked message:



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" on page 52.

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



2. Use the arrow buttons 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 buttons and the **OK** button 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**: Resetting parental controls also erases your parental control PIN.

# 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" on page 13, 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:

- **Update connection** Select your existing network connection type (**Wireless** or **Wired**), and then press **OK** to start the update process. The TV uses your current network information to reconfirm the wireless or wired network connection, the local network connection, and the Internet connection.
- **Set up new connection** Select a different network connection types (**Wireless** or **Wired**), and then select the option to set up a new connection. Follow the on-screen instructions to complete the network connection. For help with setting up a new connection, see "<u>Setting up your TV</u>" on page <u>14</u>.

**Note**: 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. If the TV detects that you are connecting to such a network, it prompts you through the connection process using your smartphone or tablet to provide the needed information. For more information, see "Using your TV in a hotel or dorm room" on page 35.

## 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" on page <u>38</u>. Note that the sleep timer setting is not input specific.
- **Time zone** Select whether to set the time zone automatically or manually, and if set manually, select your current time zone. Typically, a TV connected to the Internet can discover its own time zone automatically, and a TV that is not connected to the Internet must be set manually. Initially, this setting is made when you set up the TV tuner, as explained in "Setting up Antenna TV" on page 25. 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 broadcast 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**: 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.

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 "<u>How do I set up the TV tuner?</u>" on page <u>25</u>.

## Setting the HDMI mode

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 HDMI device does not correctly communicate its HDMI 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. Many older HDMI devices will not work correctly if the TV's HDMI input is configured for this mode.

## 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 speakers

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

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

**Tip**: The TV's internal speakers can be enabled and disabled automatically as needed by system audio control, as described in "Enabling system audio control" on page <u>61</u>. The internal speakers are also turned off when you use the headphone jack.

#### Changing the audio mode

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

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

#### Setting up a digital audio connection

You can connect the TV to an external amplifier, receiver, or sound bar by using either of these two 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 HDMI 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 "Enabling HDMI ARC" on page 61.

**SPDIF** 

HDMI (ARC)

- SPDIF optical The TV has an SPDIF optical connector that 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.
- **Note**: 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 HDMI ARC or SPDIF optical connection, go to **Settings > Audio > S/PDIF and ARC** option and select the audio format to use.

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

#### Controlling other devices through CEC

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

#### Discovering connected CEC devices

To discover CEC devices:

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

**Tip**: Some manufacturers have their own branded names for CEC functionality, so you might need to read the product documentation to correctly identify the CEC features of the device.

3. On 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 HDMI 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.

#### **Enabling HDMI ARC**

HDMI ARC is the audio return channel that is available on one of the TV's HDMI 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 HDMI ARC, in the **Home** screen menu, navigate to **Settings > System > Control other devices (CEC)**, and then highlight **HDMI ARC**. Press **OK** to enable or disable the feature.

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

#### **Enabling system audio control**

System audio control enables the TV remote control to change the volume and mute state of an amplifier or sound bar connected through HDMI, and to display the external device's volume and mute status in 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 "<u>Turning off the speakers</u>" on page <u>59</u>) and resumes local control of volume and mute state.

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

#### **Enabling 1-touch play**

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

#### **Enabling system standby**

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

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

## Restarting 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" on page 49.

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

- 1. Using a straightened paper clip or ball-point pen, press and hold the recessed RESET button on 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 "Setting up your TV" on page 14.

#### 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**, and then select **Network connection reset**.

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 <a href="https://my.roku.com">https://my.roku.com</a>.
- 2. Enter your email address and password to sign in. After signing in, the My Account page appears.
- 3. Under PIN Preference, click Update to open the Choose Your PIN Preferences page.
- 4. Skip this step if you just want to change your PIN. Otherwise, choose the option 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.
- 5. If you choose either of the first two options, enter your PIN twice in the appropriate boxes.
- 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 connected to the Internet and linked with a Roku account, 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 not connected to the Internet, you can still get updates by using a USB flash drive.

You can download an updated Owner's Guide that matches your Roku TV software version from the Hitachi America, Ltd. web site at: <a href="https://www.hitachi.us/tv">www.hitachi.us/tv</a>

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.

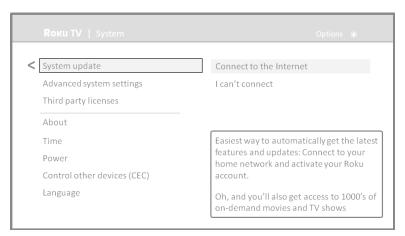
Follow the instructions on the screen to install the system update.

**Note**: 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 "But what if I didn't connect my TV?" on page 24.

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.
- 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.
- 8. Using the TV remote control, 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**.

#### **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 any size flash drive you might have.

#### 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.

## Other devices

## Screen Mirroring your phone or tablet

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

For information on which devices may work with screen mirroring and instructions on how to use it, see

https://support.roku.com/hc/en-us/articles/208754928-Roku-screen-mirroring-overview.

**Note**: Your TV must be connected to the Internet and linked to a Roku account to use screen mirroring. The Screen Mirroring option is not available on non-connected TVs.

## Getting and using the Roku mobile app

Roku makes the Roku mobile app free for compatible iOS, Android, and Microsoft Windows mobile devices<sup>†</sup>.

The Roku mobile app is an alternative remote control for your Roku TV. The Roku mobile app also lets you find and add new Roku Channels, more easily search and find something to watch, and even use your voice to search without typing. Find more information by going to <a href="mailto:support.roku.com/home">support.roku.com/home</a> and searching for "mobile app."

## Private Listening on the Roku mobile app

Another feature of the Roku mobile app is the ability to listen to streaming programs on headphones connected to your device (on compatible Apple and Android devices only). To use this feature, you must be watching or listening to streaming content (not live TV or other TV inputs), and you must have the latest version of the Roku mobile app.

For more information, see:

https://support.roku.com/article/217478308-private-listening-on-the-roku-mobile-app-

## Using a universal remote

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

For details on how to set up the TV to work with universal remote controls, visit www.roku.com/universalremote.

<sup>\*</sup>Many features work with top mobile devices. Please see support.roku.com for compatibility information.

<sup>†</sup> Please see support.roku.com for compatibility information.

# **FAQ**

For the latest answers to Frequently Asked Questions, visit the Hitachi America, Ltd. TV support website (<a href="www.hitachi.us/tv">www.hitachi.us/tv</a>) and the Support section of the Roku website (<a href="www.roku.com">www.roku.com</a>).

#### Legal statement

Please note—Use of the Hitachi Roku TV is governed by the 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 Hitachi 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 Hitachi Roku TV to your account. By using the Hitachi 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 Hitachi Roku TV, including those available via the Roku® streaming platform, as well as broadcast cable.

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

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In the event of a conflict between the Hitachi Roku TV End User Agreement and the terms set forth in this Legal Disclaimer, the Hitachi 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 PROD-UCT 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 <a href="https://www.roku.com/support">www.roku.com/support</a>.

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

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#### 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 <a href="https://www.roku.com/separatelylicensedcode">https://www.roku.com/separatelylicensedcode</a> 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 <a href="https://www.roku.com/support">www.roku.com/support</a>.

#### 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 LIABILITY 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 and how arbitration is initiated can be found at <a href="www.adr.org">www.adr.org</a> 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 <a href="mailto:customerservice@roku.com">customerservice@roku.com</a>.

Last Updated: April 21, 2016

## Additional Hitachi Roku TV Legal Statements

#### Macrovision statement

This product incorporates copyright protection technology that is protected by U.S. patents and other intellectual property rights. Use of this copyright protection technology must be authorized by Macrovision, and is intended for home and other limited viewing uses only unless otherwise authorized by Macrovision. Reverse engineering or disassembly is prohibited.

U.S. Patent Nos. 5,583,936; 6,836,549; 5,315,448; 6,381,747; 6,501,842; and 7,050,698.

#### **HDMI®**

The terms HDMI and HDMI High-Definition Multimedia Interface, and the HDMI Logo are trademarks or registered trademarks of HDMI Licensing LLC in the United States and other countries.



#### Dolby Audio™

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#### Roku®

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#### Hitachi

Hitachi is a trademark or registered trademark of Hitachi, Ltd.



All other trademarks are the property of their respective owners.

# Specifications

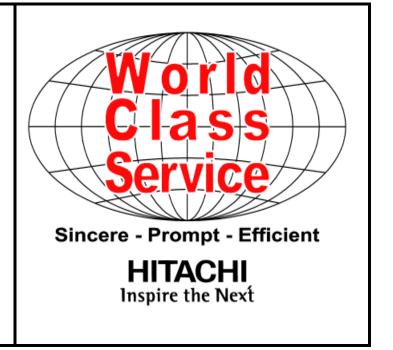
Ma alal	CCD7
Model	55R7
Panel size	55" class 54.64" diagonal (1387.83mm)
Display method	Transmission TFT color LCD panel
Number of Pixels	3840(H) × 2160(V)
Broadcasting system	US system M ATSC standard (8VSB), QAM
Receiving channels	VHF 2-13 UHF 14-69 CATV 14-36 (A)-(W) 37-59 (AA)-(WW) 60-85 (AAA)-(ZZZ) 86-94 (86)-(94) 95-99 (A-5)-(A-1) 100-135 (100)-(135) 01 (4A)  • Digital Terrestrial Broadcast(8VSB): 2-69 • Digital Cable (QAM): 1-135
Tuner type	Frequency synthesized
Inputs	Video: 1.0 V (p-p),75 ohms Audio: 2Vrms Max. Composite: 1.0 +/-0.2Vp-p, Input Impedance: 75 ohm HDMI: HDMI compliant (type A connector) HDCP compliant E-EDID compliant HDMI 2.0, ARC, CEC Input Formats: 2160p (4K@60fps), 1080p, 1080i, 720p, 480p, 480i Antenna: VHF/UHF In 75 ohms coaxial Wi-Fi: 802.11a/b/g/n/ac LAN: 10BASE-T/100BASE-TX
Outputs	Digital audio: Optical Audio Out: 470 mVrms, 1k ohms Headphone: 3.5mm Stereo
Speakers	Downfiring, 8 ohms × 2
Audio output power	8.0W + 8.0W
Power supply	AC 120V, 60Hz
Power consumption	Operation: 170W Standby: <1W
Weight	31.5lbs. (14.3kg)
Dimensions	Width: 49-1/4" (1249.8mm) Height: 30-3/4" (780.0mm) Depth: 10-5/16" (260.5mm)
Operating temp.	5°C - 35°C
Operating humidity	Less than 80% RH
Accessories	Power cord Remote control, Batteries (AAA) × 2 Stand x 2 (R, L), Stand Screws x 4 Quick Start Guide, Important Product Information Guide

# Service & Warranty

800.HITACHI (800.448.2244)

Monday ~ Friday 9:00 am - 6:00 pm EST

www.hitachi.us/tv



#### HITACHI AMERICA, LTD., DIGITAL MEDIA DIVISION

HITACHI has made every effort to assure you enjoy trouble free operation from your Hitachi product. Should you require service assistance with **OPERATIONAL**, **HOOK UP**, **TECHNICAL ASSISTANCE OR WARRANTY SERVICE SUPPORT**, please contact one of our knowledgeable Customer Service Advocates at **800.HITACHI** (800.448.2244).

Please be prepared to submit proof of purchase and/or delivery receipts to your 800.HITACHI Customer Service Representative. Warranty coverage will be provided in accordance with the provisions of your Limited Warranty (see the Limited Warranty page in this operating guide).

Pour de plus amples renseignements sur le service durant la periode couverte par la garantie, sur le fonctionnement ou pour de l'assistance techniquie communiquez avec:

Au Canada: 800.HITACHI (800.448.2244)

Lundi ~ Vendredi 9:00 am - 6:00 pm HNE

Hitachi America, Ltd., Digital Media Division Customer Service Support P.O. Box 99652 Troy, MI 48099

customerservice.ce@hal.hitachi.com



#### Congratulations on your purchase of a new Hitachi display product.

#### LIMITED WARRANTY:

Hitachi America Ltd., warrants this product in accordance with the terms and conditions applicable to the products identified below:

Conditions of "Hitachi" Limited Warranty: This Hitachi display product (the "Product") is warranted to be free from defects in materials and workmanship beginning on the date of purchase by the original owner and continuing for the duration of the applicable time periods specified below. If the Product is found to be defective, Hitachi will repair or replace (at Hitachi's option) defective parts at no charge, subject to the conditions of this Limited Warranty. If the original owner rejects, refuses or otherwise does not accept Hitachi's offer to repair or replace such defective parts under this Limited Warranty, this Limited Warranty shall be void and of no further force or effect. This Limited Warranty extends to the original owner only and is not transferable, and such owner must provide a dated sales receipt for the Product to qualify for parts or service under this Limited Warranty. The original owner must notify Hitachi of a defect claim by calling 800-HITACHI during the applicable Limited Warranty period for this Limited Warranty to be effective. This Limited Warranty is valid only in the U.S.A., Canada and Puerto Rico.

Hitachi Product: LCD Flat Panel Televisions PARTS: The Limited Warranty period for parts is 1 year from the date of original purchase. During the Limited Warranty period for parts, Hitachi will replace defective parts with new or rebuilt parts (at Hitachi's option) at no charge for such parts. Any replacement part will be warranted for the remainder of the original warranty period applicable to the part replaced. LABOR: The Limited Warranty period for labor, Hitachi will repair or replace (at Hitachi's option) defective parts without charge for labor. SERVICE LOCATION: In-home warranty service, which includes either in-home repair or free pick-up and delivery (at Hitachi's option), applies to all Hitachi products except: (i) 43-inch and smaller LCD Flat Panel Televisions; (ii) Products located outside the U.S.A., Canada or Puerto Rico; (iii) Products located more than seventy-five (75) driving miles from Hitachi's nearest Authorized Service Facility. If the foregoing clauses (i), (ii), (iii) apply, then the Product owner will be responsible for bringing/delivering the Product to a Hitachi Authorized Service Facility and, following warranty service, retrieving the Product from such Authorized Service Facility.

IMPORTANT: Before using or installing your Product, please complete this form and attach your sales receipt and retain them for your records. This will help facilitate proper warranty coverage.

MODEL NO.
DEALER NAME
DEALER ADDRESS
CITY

SERIAL NO. DATE OF PURCHASE

STATE / PROVINCE

Warranty Limitations. THIS HITACHI LIMITED WARRANTY DOES NOT COVER: A. Any Product that has been modified or repaired in a manner not previously authorized by Hitachi in writing. B. Any Product, whose serial number has been removed, altered, replaced, defaced or rendered illegible. C. Any defect, malfunction, or failure caused by or resulting from improper or unauthorized service, maintenance or repair. D. Damage resulting from abuse, misuse, mishandling, neglect or damage caused by exposure to hostile operating environments such as areas containing dust and/ or smoke. E. Damage caused by power surges, accidents, natural disasters or any other events or circumstances outside Hitachi's control. F. Any Product used in any manner inconsistent with the acceptable set-up, usage, safety or installation configurations identified in the Product's Operating Guide. G. Any Product used for purposes or applications, or subjected to operating conditions, other than those identified as acceptable in the Product's Operating Guide. H. Product repairs (including any product whose case has been opened), or part replacements provided or installed, by any person other than an Authorized Hitachi Service Facility Representative. I. Improper uncrating, set-up or installation or any misadjustments caused by user-operated controls. J. Any labor or costs associated with removing the Product from a custom cabinet or other specialized product installation that impedes direct and immediate removal of the Product from the owner's premises (must be arranged and paid by the owner). K. Product cabinets, cabinet parts, knobs, batteries, accessories, or any third party's branded hardware or peripheral devices, including any software incorporated therein, whether or not included within the Product's original packaging. L. Product screens that have been cleaned by any method other than as specified in the Product's Operating Guide. M. Normal usage, degraded brightness caused by backlight aging and/or cell defects or ordinary wear and tear, including, without limitation, scratches or marks on the Product's screen, cabinet or the appearance of bright or dark screen pixels. N. Any Product returned for service that is damaged due to improper packaging, mishandling or shipping. (IMPORTANT: When shipping any Product to a Hitachi Authorized Service Facility, Product owner must package it securely in the original shipping container or its equivalent to prevent damage. The Product must be returned with the shipping charges prepaid and proof of purchases included in the shipping container. Failure to properly package such product during such shipment will void all warranties.) O. Any Product purchased or serviced outside the U.S.A., Canada and Puerto Rico. P. Any Product that has been used for commercial purposes.

NO PERSON, AGENT, DISTRIBUTOR, DEALER, SERVICE FACILITY, OR COMPANY IS AUTHORIZED TO CHANGE, MODIFY OR AMEND THE TERMS OF THIS LIMITED WARRANTY IN ANY MANNER WHATSOEVER. EXCEPT AS PROVIDED IN THIS LIMITED WARRANTY, HITACHI MAKES NO EXPRESS WARRANTY REGARDING THIS HITACHI PRODUCT. FURTHER, ALL IMPLIED WARRANTES RELATING TO ANY PORTION OF THIS PRODUCT, INCLUDING ANY WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE, ARE LIMITED TO THE DURATION SPECIFIED UNDER THIS LIMITED WARRANTY. HITACHI SHALL NOT BE LIABLE TO THE PURCHASER OR TO ANY OTHER PERSON FOR ANY INCIDENTAL OR CONSEQUENTIAL DAMAGES OR LOSS OF PROFIT OR PRODUCT RESULTING FROM ANY DEFECT IN, OR MALFUNCTION OR FAILURE OF, THIS HITACHI PRODUCT. BECAUSE SOME JURISDICTIONS DO NOT ALLOW LIMITATIONS ON HOW LONG AN IMPLIED WARRANTY LASTS, OR THE EXCLUSION OF INCIDENTAL OR CONSEQUENTIAL DAMAGES, THE ABOVE LIMITATIONS MAY NOT APPLY TO YOU. THIS LIMITED WARRANTY CONFERS SPECIFIC LEGAL RIGHTS, INCLUDING CERTAIN OTHER RIGHTS THAT MAY VARY DEPENDING ON YOUR JURISDICTION. THIS LIMITED WARRANTY SHALL BE GOVERNED BY AND CONSTRUED IN ACCORDANCE WITH THE LAWS OF THE JURISDICATION OF THE PRODUCT OWNER'S RESIDENCE.

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