

Emerald FTR Series LED HDTV

EM42FTR	42" Class
EM48FTR	48" Class
EM55FTR	55" Class
EM65FTR	65" Class



Before operating your LED TV, please read this manual thoroughly.

(*Images shown in this user manual are for illustration purpose only.)

WE ARE HERE TO HELP!



FOR HELP WITH TELEVISION SUPPORT:

1-855-868-1928

WE CAN HELP YOU WITH:

DAMAGED PACKAGE • MISSING PARTS • TECHNICAL SUPPORT

FOR HELP WITH ROKU STREAMING STICK™:

CALL ROKU CUSTOMER SUPPORT : 1-888-600-7658 (ROKU)

WWW.ROKU.COM/SUPPORT

JVC

Contents

Congratulations on purchasing your new JVC TV. To get the most out of your JVC LED TV, read these instructions before making any adjustments, and retain them for future reference.

For assistance, call the JVC Customer Support and Service Center 1-855-868-1928 or visit our website <http://jvc-tv.com/support>

We recommend that you register your JVC LED TV either at our website <http://jvc-tv.com/support> or fill out and mail the Product Registration Card on the back of the manual.

Retain your purchase receipt and write down the model and serial number located at the back of your LED TV for easy reference when obtaining service support.

Serial Number:	_____
Model Number:	_____



This product qualifies for ENERGY STAR in the "factory default" setting and this is the setting in which power savings will be achieved. Changing the factory default picture setting or enabling other features will increase power consumption that could exceed the limits necessary to qualify for Energy Star rating.



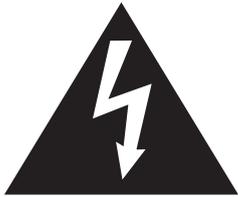
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CAUTION
RISK OF ELECTRIC SHOCK
DO NOT OPEN



CAUTION: To Reduce The Risk Of Electric Shock, Do Not Remove Cover (Or Back). No User-Serviceable Parts Inside. Refer Servicing To Qualified Service Personnel.



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 TIMES.

CAUTION: TO PREVENT ELECTRIC SHOCK. DO NOT USE THIS POLARIZED PLUG WITH AN EXTENSION CORD, RECEPTACLE OR OTHER OUTLET UNLESS THE BLADES CAN BE FULLY INSERTED TO PREVENT BLADE EXPOSURE.

WARNING : 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. Note: 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 of the following measures: - Reorient or relocate the receiving antenna. - Increase the separation between the equipment and receiver. - Connect the equipment into an outlet on a circuit different from that to which the receiver is connected. - Consult the dealer or an experienced radio/TV technician for help. FCC Caution: To assure continued compliance, (example – use only shielded interface cables when connecting to computer or peripheral devices). Any changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate this equipment.

Responsible Party: AmTRAN Video Corporation
Address: 9 Goddard, Irvine, CA 92618 USA
Telephone No: 1-855-868-1926

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.

Location of the required Marking

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

Important Safety Instructions

- 1) Read these instructions.
- 2) Keep these instructions.
- 3) Heed all warnings.
- 4) Follow all instructions.
- 5) Do not use this apparatus near water.
- 6) Clean only with dry cloth.
- 7) Do not block any ventilation openings. Install in accordance with manufacturer's instructions.
- 8) Do not install near any heat sources such as radiators, heat registers, stoves, or other apparatus (including amplifiers) that produce heat.
- 9) Do not defeat the safety purpose of the polarized or grounding-type plug. A polarized plug has two blades with one wider than the other. A grounding-type plug has two blades and a third grounding prong. The wide blade or the third prong are provided for your safety. If the provided plug does not fit into your outlet, consult an electrician for replacement of the obsolete outlet.
- 10) Protect the power cord from being walked on or pinched, particularly at plugs, convenience receptacles, and the point where they exit from the apparatus.
- 11) Only use attachments/accessories specified by the manufacturer.
- 12) Use only with the cart, stand, tripod, bracket, or table specified by the manufacturer, or sold with the apparatus. When a cart is used, use caution when moving the cart/apparatus combination to avoid injury from tip-over.
- 13) Unplug this apparatus during lightning storms or when unused for long periods of time.
- 14) Refer all servicing to qualified service personnel. Servicing is required when the apparatus has been damaged in any way, such as power-supply cord or plug is damaged, liquid has been spilled or objects have fallen into the apparatus, the apparatus has been exposed to rain or moisture, does not operate normally, or has been dropped.
- 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.
- 16) 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.
- 18) 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.
- 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.



Important Safety Instructions

- 22) 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) 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.
- 24) Do not allow the product to output distorted sound for an extended period of time. It may cause speaker overheating and fire.
- 25) 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.
- 26) The socket-outlet must be installed near the unit and easily accessible.

CHILD SAFETY:

It Makes A Difference How and Where You Use TV

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

THE ISSUE

The home theater entertainment experience is a growing trend and larger TVs are popular purchases. However, TVs are not always supported on the proper stands or installed according to the manufacturer's recommendations.

TVs that are inappropriately situated on dressers, bookcases, shelves, desks, speakers, chests or carts may fall over and cause injury.

THIS MANUFACTURER CARES !

The consumer electronics industry is committed to making home entertainment enjoyable and safe.

TUNE INTO SAFETY

One size does NOT fit all. Follow the manufacturer's recommendations for the safe installation and use of your TV.

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 TVs 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" TV. 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 TV so that they cannot be pulled or grabbed by curious children.

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 LED PANEL

- Do not press hard or jolt the LED panel. It may cause the LED panel glass to break and injury may occur.
- If the LED 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 LED Panel:

If a fixed (non-moving) pattern remains on the LED Panel for long periods of time, the image can become permanently engrained in the LED Panel and cause subtle but permanent ghost images. This type of damage is **NOT COVERED BY YOUR WARRANTY**. Never leave your TV 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.

- LED 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. This is not a sign of a malfunction.
- Do not install the TV 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.

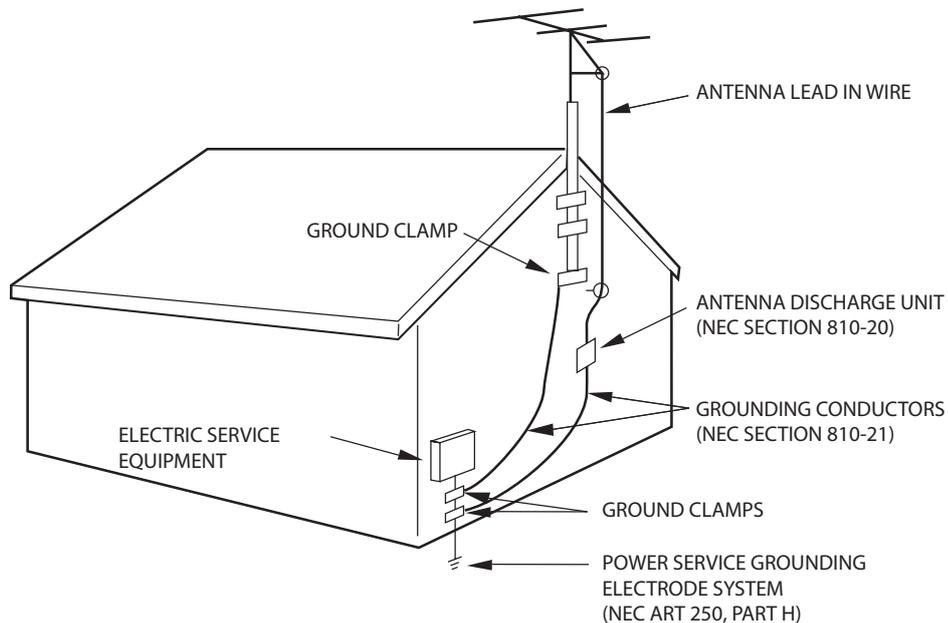
Important Safety Instructions

Television Antenna Connection Protection

External Television Antenna Grounding

If an outside antenna/satellite dish or cable system is to be connected to the TV, make sure that the antenna or cable system is electrically grounded to provide some protection against voltage surges and static charges.

Article 810 of the National Electrical Code, ANSI/NFPA 70, provides information with regard to proper grounding of the mast and supporting structure, grounding of the lead-in wire to an antenna discharge unit, size of the grounding conductors, location of antenna discharge unit, connection to grounding electrodes, and requirements of the grounding electrode.



Lightning Protection

For added protection of the TV during a lightning storm or when it is left unattended or unused for long periods of time, unplug the TV from the wall outlet and disconnect the antenna or cable system.

Power Lines

Do not locate the antenna near overhead light or power circuits, or where it could fall into such power lines or circuits.

DTV Transition Advisory

As of June 12, 2009, all U.S. television stations have switched to digital broadcasting. As a result, owners of analog television sets must connect a digital-to-analog converter box to the television set or subscribe to cable or satellite TV to receive over-the-air TV. Analog-only TVs continue to work as before to receive low power, Class A or translator television stations and with cable and satellite TV services, gaming consoles, VCRs, DVD players, and similar products.

For more information about the DTV transition, visit www.dtv.gov.

FCC's Consumer Center

Email: dtvinfo@fcc.gov

Phone: 1-888-CALL-FCC (1-888-225-5322)

Fax: 1-866-418-0232; or writing to:

Mail: Federal Communications Commission

Consumer and Governmental Affairs Bureau

Consumer Inquiries and Complaints Division

445 12th Street, SW

Washington, DC 20554

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Attaching the Stand

The stand installation varies depending on model. Perform the installation according to the instructions of your TV model.

Unpacking the TV

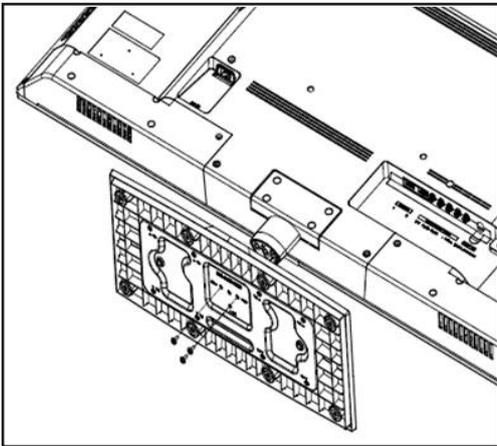
- 1 Remove TV accessories and protective foam.
- 2 Remove TV from the box and place it on a flat and clean surface with TV screen facing down.
- 3 Attach the stand to TV using the provided screw.

Removing the Stand

When the TV needs to be transported, remove the stand and pack the TV back in the carton. To remove the stand, perform the assemble steps in reverse order according to your TV model.

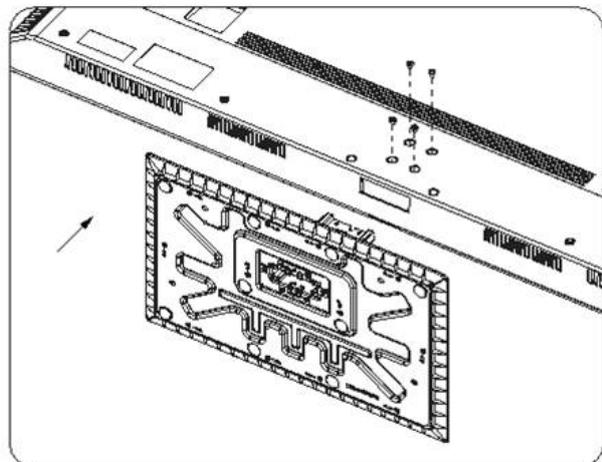
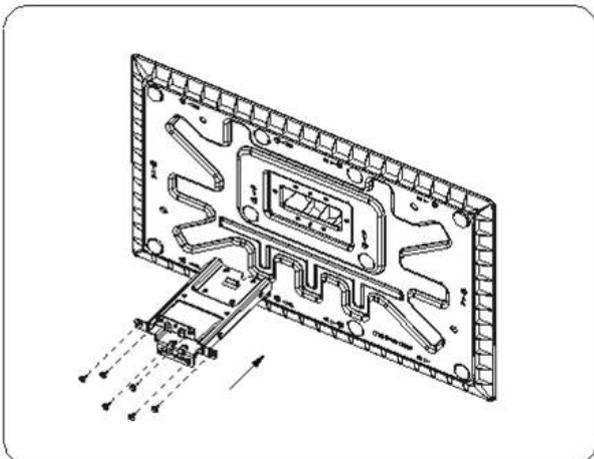
EM42FTR

EM48FTR



EM55FTR

EM65FTR



Package Contents

Check if the following items are included in your package.

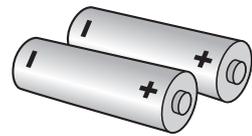
LED TV



Remote Control



Batteries



Quick Start Guide



Power Cord



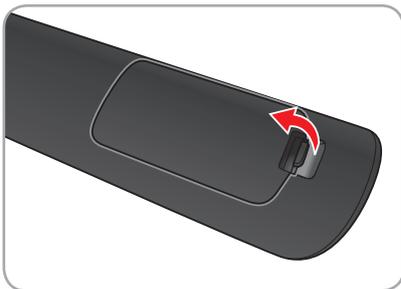
Roku Streaming Stick™



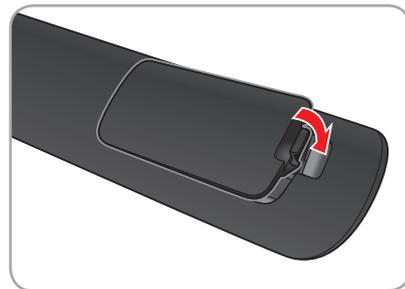
DOWNLOAD FULL VERSION USER MANUAL
<http://jvc-tv.com/support>

Remote Control Batteries

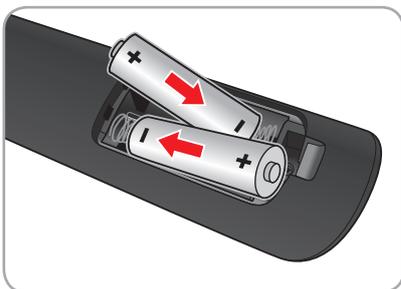
1 Push the tab, then lift to open the cover.



3 Close the battery cover.



2 Insert the batteries, making sure the [+] and [-] polarities are correct.



Battery Precautions:

Be sure to follow the correct polarity. Incorrect installation may cause battery leakage or damage the remote control. Always replace batteries in pair. Do not combine a used battery with a new one.

Do not use different battery types together (e.g. "Alkaline" and "Carbon-zinc").

If the remote control is not to be used for a long period of time, remove the batteries to prevent battery leakage.

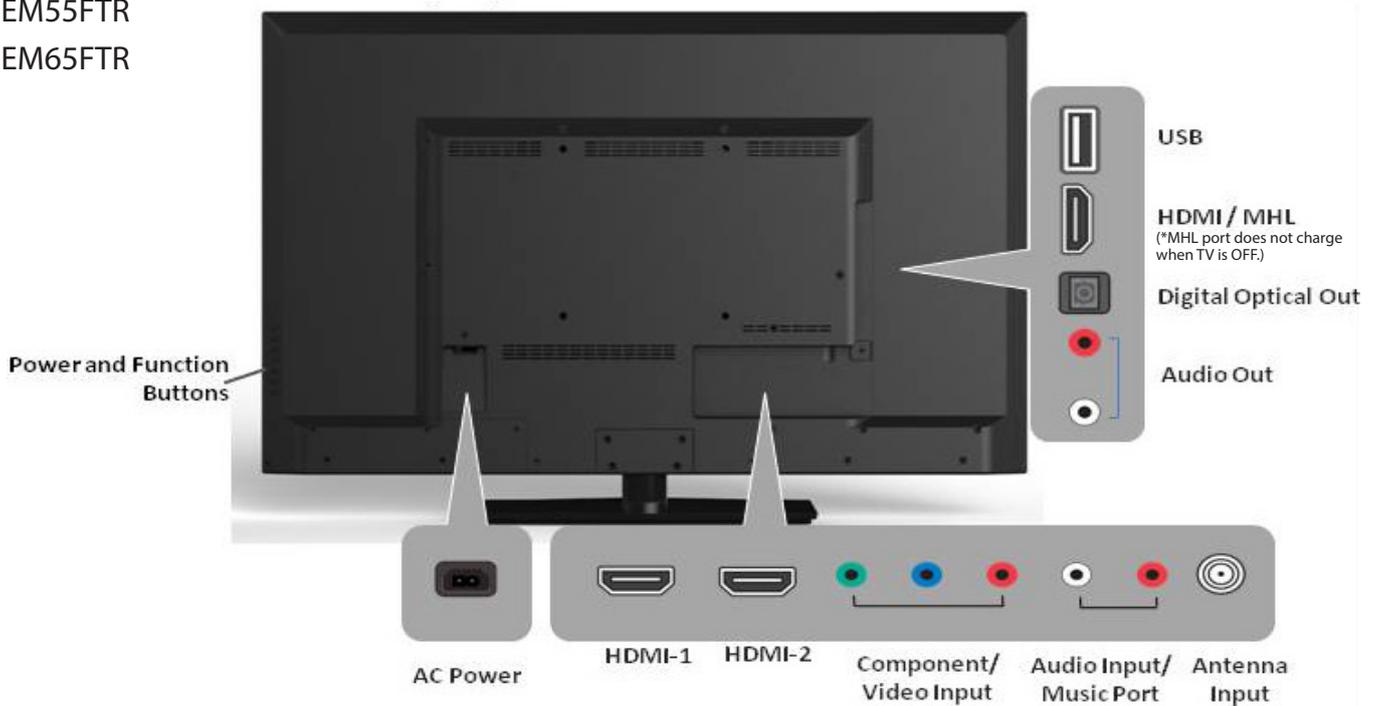
Parts and Functions

Front View



Rear View

EM42FTR
EM48FTR
EM55FTR
EM65FTR

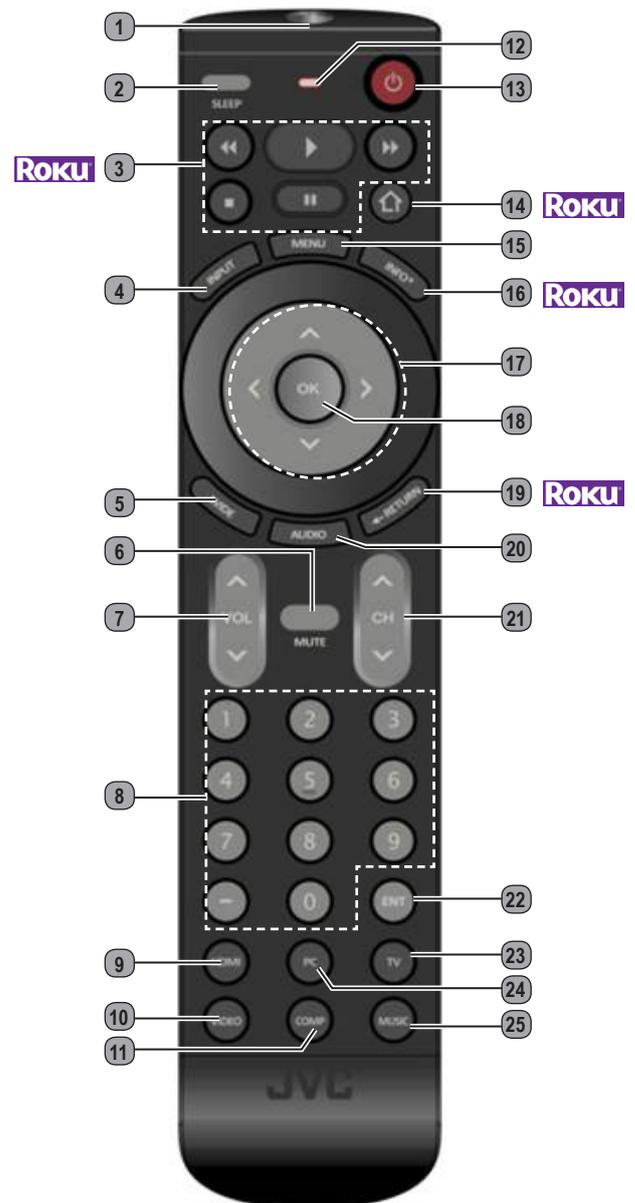


Parts and Functions

Remote Control

- 1 IR Transmitter:** Sends remote control signal to the TV.
- 2 SLEEP button:** Select a sleep mode timer (Off, 30 minutes, 60 minutes, 90 minutes, 120 minutes, 180 minutes).
- 3 Roku Playback controls:** The buttons are used for Photo, Music, Video, HDMI CEC enabled devices and HDMI MHL enabled devices.
- 4 INPUT button:** Change the input source.
- 5 WIDE button:** Change the display mode (Normal, Wide, Zoom Panoramic).
- 6 MUTE button:** Turn the TV audio off or on.
- 7 VOL (Volume) buttons:** Press **VOL ▲** to increase volume or **VOL ▼** to decrease volume.
- 8 Number pad (0~9, -):** Use the number keys to directly change channel.
- 9 HDMI button:** Press to directly set HDMI as the input source signal.
- 10 VIDEO button:** Press to directly set Composite VIDEO as the input source signal.
- 11 COMP button:** Press to directly set Component as the input source signal.
- 12 Remote Control LED:** Lights red when a button is pressed.
- 13 POWER button:** Turn the TV on or off.
- 14 Roku HOME button:** Press to display ROKU home screen while ROKU streaming stick is in use.
- 15 MENU button:** Display the MENU screen.
- 16 Roku *INFO button:** Press to obtain more information or access special options on Roku.
- 17 Direction buttons ▲ / ▼ / ◀ / ▶ :** Navigate the menu, select options, or adjust settings value.
- 18 OK button:** Enter a menu or confirm an option.
- 19 Roku ←RETURN button:** Return to a previous menu or screen.
- 20 AUDIO button:** Enter Audio Only mode and turn the screen off. See page 24.
- 21 CH (Channel) buttons:** Use **CH ▲** to increase the channel number or **CH ▼** to decrease the channel number.
- 22 ENT (Enter) button:** Access the entered channel number or display the Channel list screen.
- 23 TV button:** Directly set TV as the input source signal.

- 24 PC button:** Directly set PC as the input source signal (This function is only available to models with VGA input)
- 25 MUSIC button:** Directly set Music as the input source signal.



Notes:

To obtain best results, use the remote control with a proper distance from the TV and ensure that there are no obstacles between them.

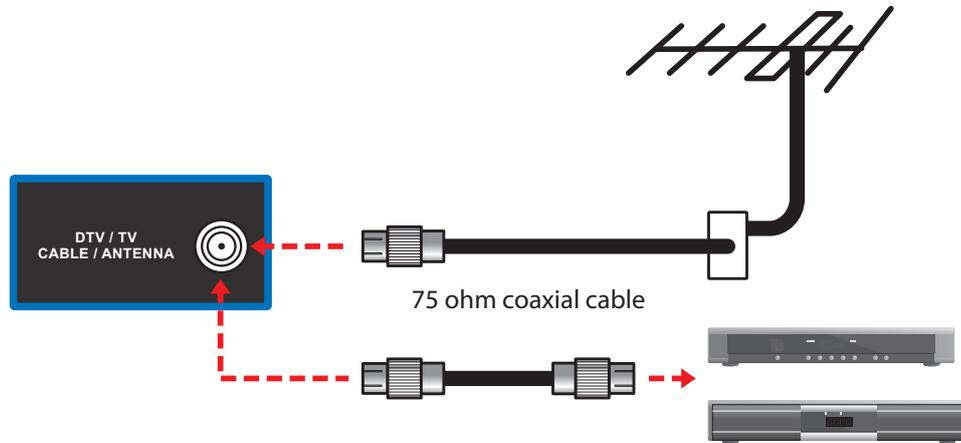
Aim the remote control transmitter to the remote control sensor on the TV.

Do not expose the remote control to direct sunlight. This may affect the performance of the remote control.

Making Connections

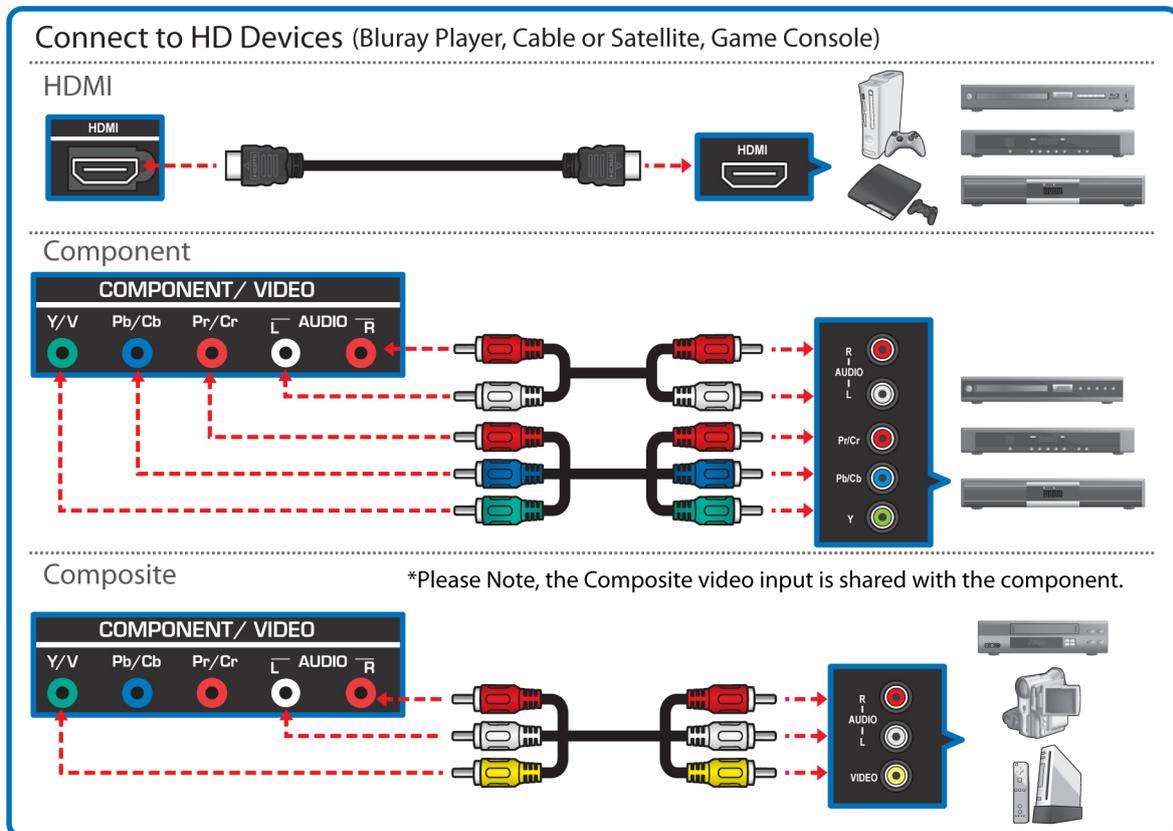
Connecting Antenna / Cable

Connect the 75 ohm coaxial cable directly to the DTV/TV Cable/Antenna jack of the TV.



Connecting HD Devices

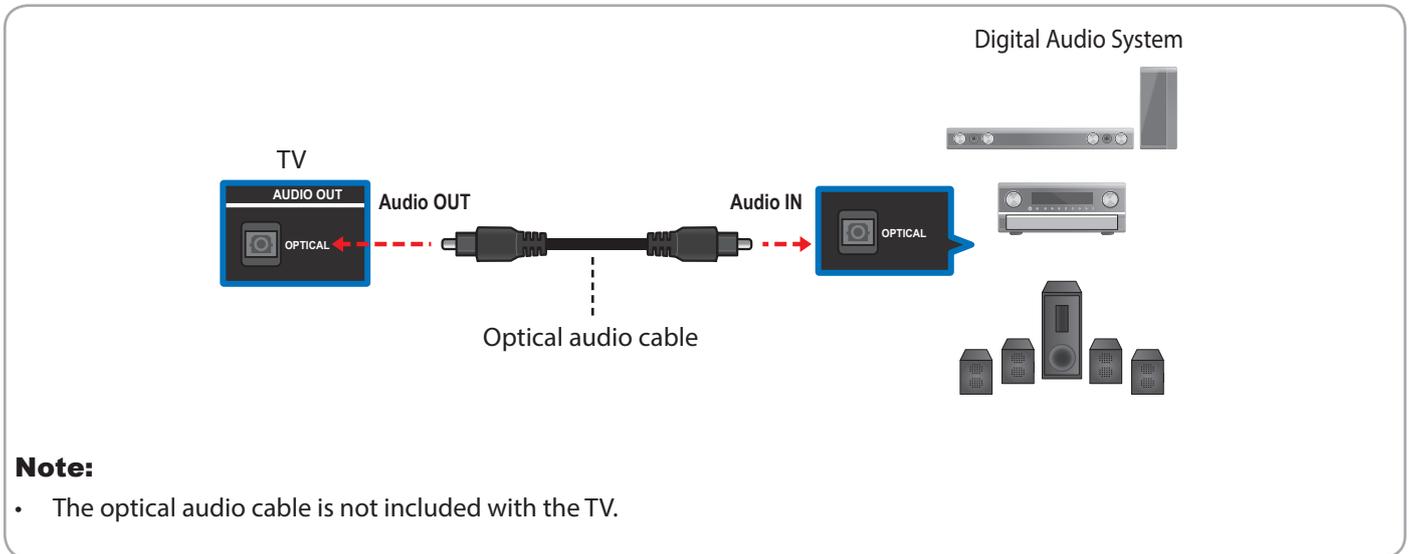
You can connect different devices to the TV using HDMI, Composite, or Component connections. Check the type of connection available on your device.



Connecting External Speakers / Soundbar / AV Receivers

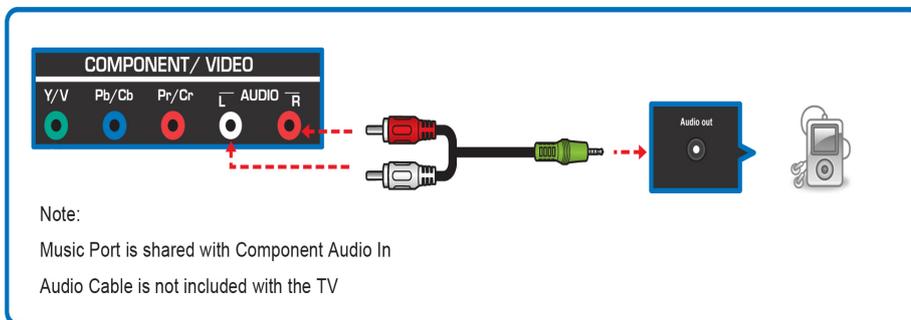
Digital Connection

Connect the SPDIF/Optical audio cable to the Audio OUT optical port of the TV and the optical port of the soundbar, AV receiver, or audio system.



Connecting Music Port

The TV supports music playback from portable music players, such as an MP3 player or iPod™.



Basic Operations

Setup Wizard

The Setup Wizard will assist you with setting up your TV for the first time. Please follow the instruction carefully.

Note: If you would like to setup over-the-air or cable programming, make sure the antenna or cable TV system is connected. See page 14 for setup.

- 1 When you turn on the TV for the first time, the Setup Wizard screen will appear.
- 2 Press **<or>** to select the menu language, then press **OK**.



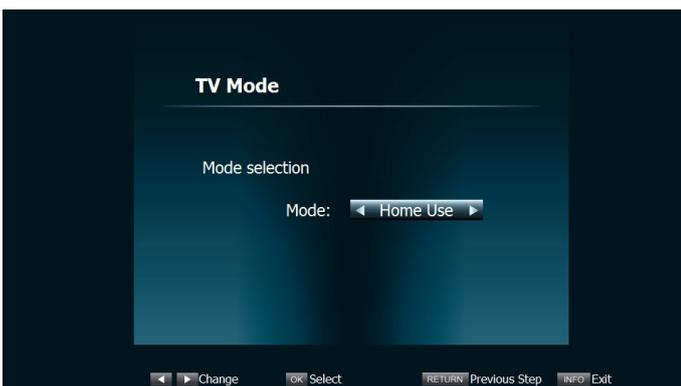
- 3 Press **<or>** to select the TV Mode, then press **OK**.

TV Mode options :

- **Home Use:** Select this mode for in home use.
- **Store Demo:** Select this mode for in store demo.

Note:

- Store Demo is for retailers only.
- To exit Store Demo, see page 18.



- 4 Press **<or>** to select the Time Zone, then press **OK**.



- 5 Press **<or>** to set Daylight Saving Time "**ON**" or "**OFF**", then press **OK**.



- 6 Press **<or>** to select the TV service, then press **OK**.



Basic Operations

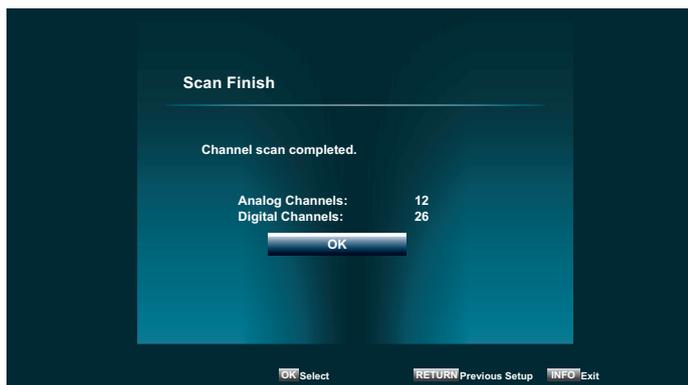
7 Press **OK** to start channel scan.



Note:

- Scanning may take some time to complete.
- Select Stop Scan to cancel the auto scan at anytime.

8 When auto scan is complete, press **OK** to continue.

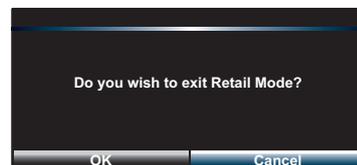


9 Press **OK** to complete setup.



Exit Store Demo

- 1 Press RETURN.
- 2 Press **<** or **>** to select "**OK**", then press **OK** to confirm.



Basic Operations

Changing Channel

Press the number buttons to directly select channels.

Note: After pressing the number buttons, there will be a few seconds delay before the TV changes channel. To change to the channel right away, press ENT after pressing the number buttons.

To Browse Channel

Press the Channel up/down buttons on the remote control.



To Select Analog Channels

- 1~9 Press 1~9 as needed. Example, to select channel 2, press **2**, then press **ENT**.
- 10~99 Press the 2 digits in order. Example, to select channel 15, press **1, 5**, then **ENT**.
- 100~135: Press the 3 digits in order, Example, to select channel 130, press **1, 3, 0**, then press **ENT**.

To Select Digital Channels

Press the first 3 digits, then press **⊖**, followed by the remaining number. Example, to select channel 15-1, press **1**, **5**, **⊖**, **1**, then press **ENT**.

To Select by Channel List

All channels found from channel scan are listed on the Channel List screen. You can select channels from this screen.

- 1 Press **ENT** to display the Channel List screen.
- 2 Press **▼** or **▲** to select a channel number, then press **ENT**.
- 3 Press **RETURN** to close the Channel List screen.

Mute Volume

Press **MUTE** to turn the sound off. To turn the sound back on, press **MUTE** again or any of the **VOL** buttons.

Set Sleep Timer

Sleep timer sets the TV to automatically turn off after a preset amount of time. After setting a preset amount of time, the TV will automatically turn off after the timer has expired.

- 1 Press **SLEEP** to display the Sleep screen.
- 2 Press **SLEEP** repeatedly or press **▼** or **▲** to scroll through the options, then press **OK**.

To cancel sleep, set the timer to Off.

Display Info

Press **INFO** to display the channel or input information on the screen.

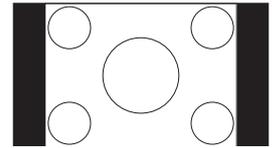
Press **INFO** again to hide the Info screen.

Set Aspect Ratio

- 1 Press **WIDE** to display the Wide menu.
- 2 Press **WIDE** repeatedly or press **▼** or **▲** to scroll through the options, then press **OK**.

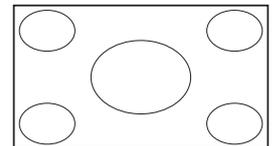
Normal

When watching a 4:3 content, the TV displays a standard picture with black side bars. When viewing a 16:9 content, it displays a full picture.



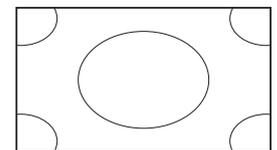
Wide

When displaying a 4:3 content, the picture is stretched horizontally to fill the width of the screen. When watching a 16:9 content, the image is slightly overscan.



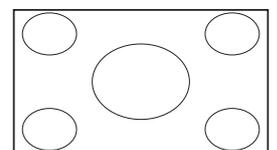
Zoom

The entire picture is uniformly enlarged to retain its original proportion. However, some parts of the picture may be hidden.



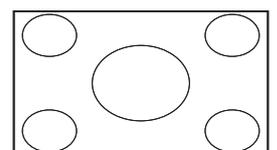
Panoramic

The picture is stretched horizontally on the left and right sides to fill the width of the screen. The center of the picture is not stretched.



Stretch

The picture is stretched horizontally on the left and right sides.



Note:

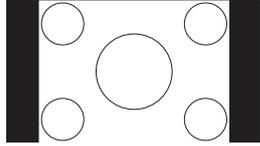
- Panoramic mode is only available on 4:3 contents.
- Stretch is only available on 16:9 contents.

Basic Operations

Aspect Ratio options in PC mode.

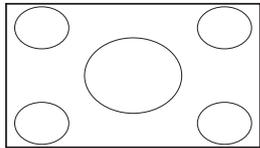
Normal

When watching a 4:3 content, the TV displays a standard picture with black side bars. When viewing a 16:9 content, it displays the full picture, pixel to pixel.



Stretch

When watching a 4:3 content, the picture is stretched horizontally to fill the width of the screen. When watching a 16:9 content, the picture is stretched horizontally on the left and right sides.



Selecting Input Source

The TV provides various ways to select the input source:

On the Remote Control

- Press **INPUT** repeatedly to scroll through the input source options, then press **OK** to select the input.
- To directly select an input source, press the direct input button located at the bottom of the remote control.



Multimedia Mode

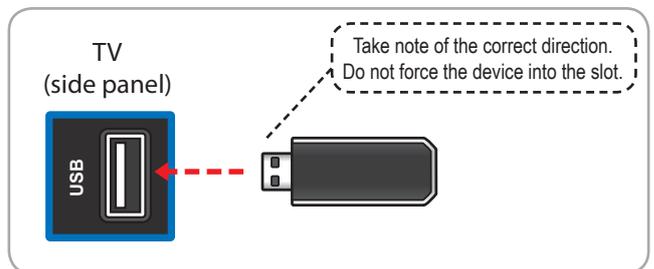
The TV Allows you to play image slide shows from a USB memory stick.

Note:

- Only supported multimedia files can be played back.

Playing Multimedia Files

- 1 Insert the USB memory stick into the USB slot of the TV.



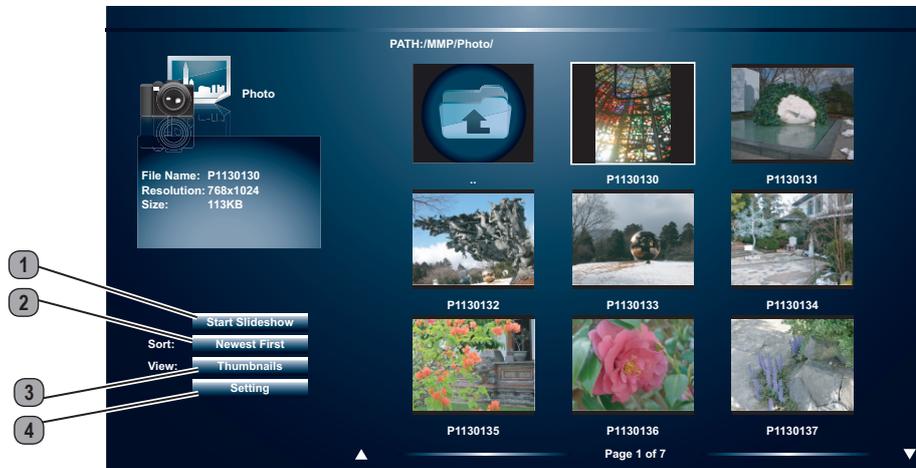
- 2 A message box will appear on the screen. Press **<** or **>** to select **OK**.



- 3 Press **OK** to select your option.
- 4 Press **▼** or **▲** to select the USB source, then press **OK**.
- 5 If prompted, press **▼** or **▲** to select Photo player, then press **OK**.

- 6 The displayed screen varies depending on the media type you selected.
Press **▼**, **▲**, **◀** or **▶** to select a file or function, then press **OK**.

Multimedia: Photo



- 1 Start Slideshow button:** Play slide show.
2 Sort button: Change sorting order. The label on this button varies depending on the current sorting order. (Name A-Z, Name Z-A, Newest First, Oldest First)
3 View button: Change view mode. The button label varies depending on the current view. (Folders, Thumbnails)
4 Setting button: Change slide show settings.

Audio Only Mode

While watching TV or playing music, you can set the TV to Audio Only mode to turn off the TV display and save power.

- 1 Press **AUDIO** to activate Audio Only mode. A message appears on the screen, then after a few seconds, the TV display turns off.
- 2 Press any button to turn on the display again and exit Audio Only mode.

Basic Operations

Wall Mount

Installing Wall Mount

The wall mount kit allows you to mount the TV on the wall. For detailed information on installing the wall mount, see the instructions provided with the wall mount kit.

Note: The wall mount kit is not included with the product.



For product protection and safety reasons, JVC strongly recommends contacting a technician or professional for assistance installing the wall mount and setting up the TV. If you decide to install the wall mount and TV without the assistance of a technician or professional, JVC will not be responsible for any damage to the product or injury to yourself or others.



Do not install your wall mount while your TV is turned on. It can result in personal injury due to electric shock

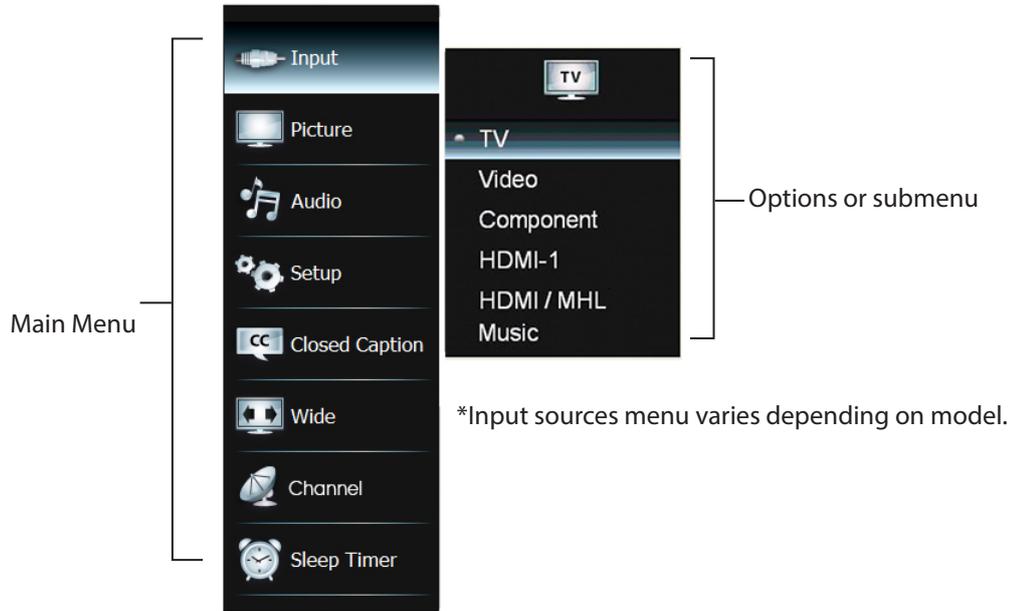
- 1 Disconnect all cables connected to the TV.
- 2 Carefully place the TV on a flat and clean surface with screen facing down. It is recommended to place the TV cover or protection sheet between the TV and flat surface.
- 3 Remove the screw attaching the stand and TV.
- 4 Remove and store the stand for future use.

Wall Mount Specifications (VESA)

Product Model #	VESA hole pattern (mm)	Standard Screw
EM42FTR (42")	200 x 200	M4
EM48FTR (48")	200 x 200	M4
EM55FTR(55")	400 x 400	M8
EM65FTR (65")	400 x 400	M8

Adjusting the Menu Settings

Menu Operation

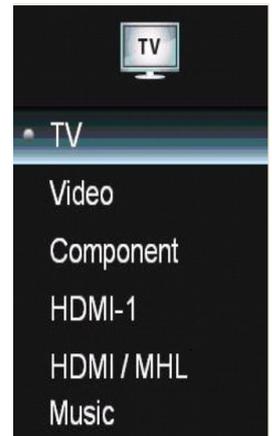


Remote Control	
1 Display the menu.	Press MENU .
2 Select a menu option.	<ol style="list-style-type: none"> 1. Press ▼ or ▲ to select a menu or option. 2. Press OK or ▶ to enter a menu or confirm an option.
3 Adjust or select the setting.	<ol style="list-style-type: none"> 1. Press ▼ or ▲ to select an option. Or, press ◀ or ▶ to adjust a setting, such as Brightness. 2. Press OK to apply the settings.
4 Exit the menu.	To exit the menu, press RETURN . Or, to return to a previous screen one at a time, press MENU or ◀ .

Input Menu

Select the input source signal.

- **TV:** To watch analog or digital TV channels.
- **Video:** To use VCRs, camcorders, or game consoles connected via composite connection.
- **Component:** To use VCRs, camcorders, or game consoles connected via component connection.
- **HDMI-1 :** To connect HD devices via HDMI Connection.
- **HDMI/MHL:** To connect MHL devices via HDMI/MHL Connection.
- **Music:** To play music from a music player connected via music port.



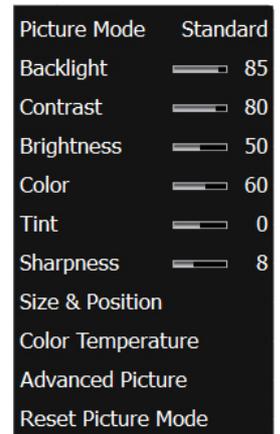
Picture Menu

Adjust picture options such as Brightness, contrast, and advanced picture settings.

Picture Mode

Select the picture mode.

Custom	For custom picture settings.
Standard	For standard picture settings.
Movie	For moving pictures such as movies.
Game	For fast and dynamic pictures suitable with playing games.
Vivid	For bright and vivid picture settings.
Sport	Suggested settings for sporting events.



Backlight

Adjust the backlight that affects the overall brilliance of the picture. (0 ~100)

Contrast

Adjust the white level in the picture. Low contrast makes pictures look dark, high contrast makes pictures washed out. (0 ~100)

Brightness

Adjust the brightness setting. (0 ~100)

Color

Adjust the amount of color level in the picture. (0 ~100)

Tint

Adjust the picture hue. (-50 ~ 50)

Adjusting the Menu Settings

Sharpness

Adjust the sharpness of the edges of elements in the picture.

Size & Position

Horiz. Position / Vertical Position	Adjust the horizontal / vertical position of the picture.
Horizontal Size / Vertical Size	Adjust the horizontal / vertical size of the picture.

Color Temperature

Color Temperature	Apply a preset color temperature setting. (Custom / Cool / Natural / Warm)
Red / Green / Blue Gain	Adjust the red / green / blue gain settings according to your preference.
Red / Green / Blue Offset	Adjust the red / green / blue offset settings according to your preference.
Reset Color Temperature	Reset the color temperature to default settings.

Advanced Picture(*May be unavailable on certain models.)

CrystalColor	CrystalColor produces more vivid and crisp color pictures. (Off / Normal / Rich)
Dynamic Contrast	Dynamic contrast automatically enhances the image for greater picture details.
Adaptive Backlight	Enable or disable adaptive backlight. (Off / On)
Noise Reduction	Reduce the noise level. (Off / Low / Medium / High)
Digital NR	Reduce noise level of digital signals. (Off / Low / Medium / High)
Film Mode	Produce smoother motion picture when viewing movies .

CrystalColor	Off
Dynamic Contrast	Off
Adaptive Backlight	Off
Noise Reduction	Off
Digital NR	Off
Film Mode	Off

Reset Picture Mode

Reset the picture mode settings to default.

Audio Menu

Bass

Adjust the bass level to your preference. (-12 ~ 12)

Treble

Adjust the treble level to your preference. (-12 ~ 12)

Balance

Adjust the audio level of the L/R channels of the speakers to your preference. (-10 ~ 10)

Lip Sync

Adjust to match the movements and the lips of the person talking on the screen. (0 ~ 5)

TV Speakers

Turn the internal speakers on or off.

Audio Only

Output audio from the TV speakers but turn off the TV display. See page 24.

Digital Audio Out

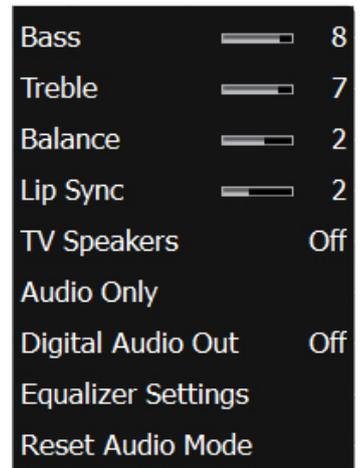
Select the type of digital audio output. (Off / Dolby Digital / PCM)

Equalizer Settings

Adjust the equalizer settings. (120Hz / 500Hz / 1.5KHz / 5KHz / 10KHz)

Reset Audio Mode

Reset the audio mode settings to default settings.



Setup Menu

Name Input

The Name Input feature of the TV allows you to add a label name on an input source.

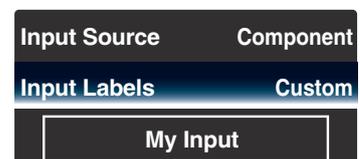
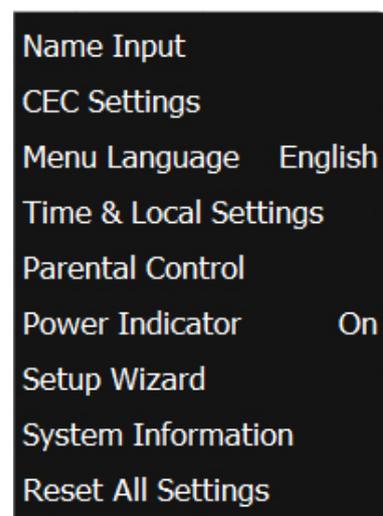
To label an input source , perform the following steps:

- 1 Press **MENU**.
- 2 Press **▼** or **▲** to select "Setup", then press **▶** or **OK**.
- 3 Press **▼** or **▲** to select "Name Input", then press **▶** or **OK**.
- 4 Press **▼** or **▲** to select "Input Source", then press **▶** or **OK**.
- 5 Press **▼** or **▲** to select the input source that you want to add a label name to, then press **OK**.
- 6 To select a custom label:
 1. Press **▼** or **▲** to select "Input Labels", then press **▶** or **OK**.
 2. Press **▼** or **▲** to select "Custom" and press **OK**.

To enter desired label:

1. Press **▼** or **▲** to select the text box, then press **OK**.
2. Press **▼**, **▲**, **◀** or **▶** to select a character, then press **OK**.
3. Press **▼**, **▲**, **◀** or **▶** to select "**OK**", then press **OK**.

Press **RETURN** to close the menu screen.



Adjusting the Menu Settings

CEC Settings

CEC allows you to control devices using your TV remote control when the CEC devices are connected via HDMI.

CEC Function	Enable or disable CEC function.
Device Search	If CEC Function is enabled, select to search for CEC devices.
System Audio Control	Connect to your device through Audio Return Channel-enabled HDMI Port (HDMI 1)

Menu Language

Select the on-screen menu language.

Time & Local Settings

Time Zone	Select a location to apply the time zone.
Daylight Saving	Enable or disable daylight saving time.

Parental Control

The Parental Control feature allows you to control and restrict TV programs by Channel Lock , TV Rating, or Movie Rating.

Access Parental Control Menu

The Parental Control menu requires you to enter the password to access its submenu.

- 1 Press **MENU**.
- 2 Press **▼** or **▲** to select "Setup", then press **▶** or **OK**.
- 3 Press **▼** or **▲** to select "Parental Control", then press **▶** or **OK**.
- 4 Enter the 4-digit password. Press **▼**, **◀** or **▶** to select "**OK**", then press **OK** to access the submenu options.



Note: The default password is "0000".

- 5 Press **▼** or **▲** to select the submenu options, then press **▶** or **OK** to enter the submenu.

Restrict By Channel

Use the Channel Lock feature to restrict viewing a specified channel. Once locked channel is selected, the TV displays a blank screen.

- 1 In the "Parental Control" menu, press **▼** or **▲** to select "Channel Lock", then press **▶** or **OK**.
- 2 Press **▼** or **▲** to highlight a channel that you want to lock.

- 3 Press **OK** to mark and lock the channel.
- 4 Press **←** to return to the previous screen or press **RETURN** to close the menu screen.

Restrict By TV/Movie Rating

You can select which TV/Movie rating to lock for viewing.

- 1 In the "Parental Control" menu, press **▼** or **▲** to select a rating submenu, then press **▶** or **OK**.
 - "Enable Rating": Select "On" to enable rating.
 - "USA-TV": Set the rating by age level and genre.
 - "USA-Movie": Set by USA movie rating standards.
 - "CAN-English": Set by Canadian English movie rating standards.
 - "CAN-French": Set by Canadian French movie rating standards.
 - "Block Unrated Shows": Select "On" to block unrated shows.
- 2 Press **▼** or **▲**, then press **OK** to select the rating.
- 3 Press **←** to return to the previous screen or press **RETURN** to close the menu screen.

Change Password

- 1 In the "Parental Control" menu, press **▼** or **▲** to select "Change Password", then press **▶** or **OK**.
- 2 Enter a new password, then press **OK**.
- 3 Re-enter the new password, then press **OK** to complete.

Power Indicator

To turn on/off the LED power indicator while TV is on.

Setup Wizard

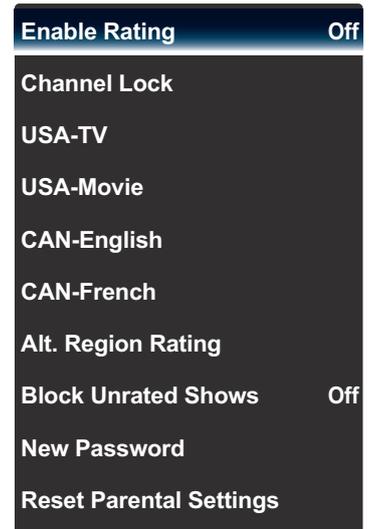
Run the guided setup.

System Information

Display the system information of the TV.

Reset All Settings

Reset all TV settings to default settings.

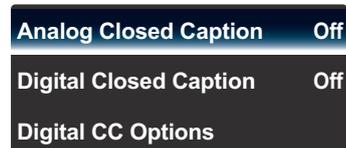


Adjusting the Menu Settings

Closed Caption

Closed Caption decodes and displays closed caption data of television programs as subtitle. This feature displays text on the screen or it translates and displays text in another language.

- 1 Press **MENU**.
- 2 Press **▼** or **▲** to select "Closed Caption", then press **▶** or **OK**.
- 3 Press **▼** or **▲** to select "Analog Closed Caption" or "Digital Closed Caption, then press **▶** or **OK**.



Note: Either "Analog Closed Caption" or "Digital Closed Caption" is available depending on your TV service.

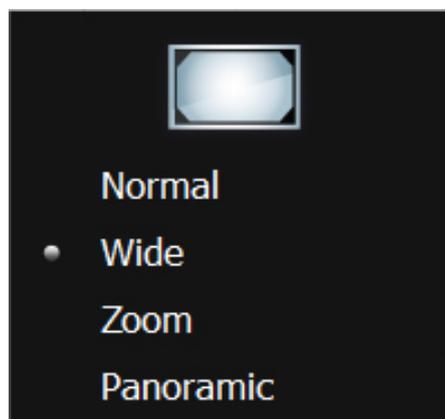
- 4 Press **▼** or **▲** to select a closed caption type or select "Off" to disable this feature, then press **OK**.
For digital closed caption, you can select closed caption options, such as text size and text color. Press **▼** or **▲** to select "Digital CC Options", then press **OK**. Select desired options.
- 5 Press **RETURN** to close the menu screen.

Wide

Select WIDE to change TV viewing aspect ratio.

- 1 Press **MENU**.
- 2 Press **▼** or **▲** to select "Wide", then press **▶** or **OK**.
- 3 Press **▼** or **▲** to select "Normal" or "Wide", "Zoom", "Panoramic"

Note: refer to Basic Operation section for details.



Channel Menu

Select Antenna / Cable

Select Antenna or Cable for the service connected to your TV.

- 1 Press **MENU**.
- 2 Press **▼** or **▲** to select "Channel", then press **▶** or **OK**.
- 3 Press **▼** or **▲** to select "TV Mode", then press **▶** or **OK**.
- 4 Press **▼** or **▲** to select "Antenna" or "Cable", then press **OK**.



Scan Channels

Auto Scan Channels

When you run auto scan, the TV scans for all available channels. Make sure the antenna/cable is connected properly. See page 14.

- 1 Press **MENU**.
- 2 Press **▼** or **▲** to select "Auto Channel Scan", then press **▶** or **OK**.
- 3 Press **▼** or **▲** to select "Start Scan", then press **OK**.
Scanning progress is displayed on the menu screen. To stop scanning, select "Stop Scan" and press **OK**.

Note: Auto scan may take 15 to 30 minutes to find available channels.

Partial Scan Channels

You can partially scan for network signal within a specified range of channels.

- 1 Press **MENU**.
- 2 Press **▼** or **▲** to select "Partial Channel Scan", then press **▶** or **OK**.
- 3 Press **▼** or **▲** to select "Scan Mode", then press **▶** or **OK**.
- 4 Press **▼** or **▲** to select an option, then press **OK**.
 - "Analog/Digital": scan for both analog and digital channels
 - "Analog": scan for analog channels
 - "Digital": scan for digital channels
- 5 Press **▼** or **▲** to select "From Channel", then enter a starting channel range.
- 6 Press **▼** or **▲** to select "To Channel", then enter an ending channel range.
- 7 Press **▼** or **▲** to select "Start Scan", then press **OK**.

Scanning progress is displayed on the menu screen. To stop scan, select "Stop Scan" and press **OK**.

Add Channel

New channels may be added to your area periodically. Use the Add Channel function to add new channels.

- 1 Press **MENU**.
- 2 Press **▼** or **▲** to select "Channel", then press **▶** or **OK**.
- 3 Press **▼** or **▲** to select "Find Channel", then press **▶** or **OK**.
- 4 Press **▼** or **▲** to select "Enter Channel", then enter a channel.
- 5 Press **▼** to select "Add Channel", then press **OK**.

Added channels are listed on the Channel List screen.

Delete Channel

To remove a channel from the Channel List screen.

- 1 Press **MENU**.
- 2 Press **▼** or **▲** to select "Channel", then press **▶** or **OK**.
- 3 Press **▼** or **▲** to select "Channel Management", then press **▶** or **OK**.
- 4 Press **▼** or **▲**, then press **OK** to mark the channels that you want to remove from the Channel List.
- 5 Press **RETURN** to close the menu screen.

Sleep Timer

Sleep timer sets the TV to automatically turn off after a preset amount of time.

Appendix

Supported Resolution

Model Name	EM42FTR / EM48FTR / EM55FTR / EM65FTR
Supported PC Timing (HDMI)	720 x 400 @ 70Hz
	640 x 480 @ 60, 75Hz
	800 x 600 @ 60, 75Hz
	1024 x 768 @ 60, 75Hz
	1920 x 1080 @ 60Hz
Supported Video Timing (NTSC, Composite)	480i
Supported Video Timing (ATSC, Composite, HDMI)	480i, 480p, 720p, 1080i, 1080p

Troubleshooting

If your TV fails to work properly, check the following guidelines for possible causes and solutions. Consult your local dealer or service outlet if problems persist.

Problem	Solution
No power.	<ul style="list-style-type: none"> • Make sure the power cord is plugged in. • The power is off, press the Power button to turn on the TV. • Try another outlet. • Unplug the unit for an hour, then plug it back in.
Poor sound or no sound.	<ul style="list-style-type: none"> • Press the VOL ▲ button on the remote control or the Power/Multi Function button on the TV to adjust volume . • Press MUTE on the remote control to ensure that mute is not on. • The channel or cable TV is experiencing problems, tune to another channel. • Check the TV audio settings. • Check for possible sources of interference.
Poor picture or no picture.	<ul style="list-style-type: none"> • The channel or cable TV is experiencing problems, tune to another channel. • Make sure that channels are set into memory. • Check the antenna or cable TV connections. • Check for possible sources of interference.
Poor reception on some channels.	<ul style="list-style-type: none"> • The channel or cable TV is experiencing problems, tune to another channel. • Make sure that channels are set into memory. • The network signal is weak, adjust the antenna to receive better reception. • Check for possible sources of interference.
The remote control does not work.	<ul style="list-style-type: none"> • Batteries may be weak, dead, or inserted incorrectly. • Point the remote control directly at the remote sensor on the TV with an angle of 35°. • Remove any obstacles between the remote control and the TV. • Remote control is out of range, move closer to the TV.
TV shuts off.	<ul style="list-style-type: none"> • Sleep timer is set. • Power is interrupted.
No CATV reception.	<ul style="list-style-type: none"> • Check all cable TV connections. • Set the TV Mode in Channel menu.
Closed caption is not activated.	<ul style="list-style-type: none"> • The program tuned is not closed captioned. Try another channel. • Enable Closed Caption in the menu.

Specifications

Specifications are subject to change without prior notice.

	EM42FTR	EM48FTR
Display Specification:		
Size Class (Diagonal):	42" (actual viewable size: 42")	48" (actual viewable size: 47.6")
Resolution / Aspect:	1920 x 1080 / 16:9	1920 x 1080 / 16:9
Backlit:	DLED	DLED
Refresh Rate / Frame Rate:	CM120Hz	CM120Hz
Contrast Ration:	1200:1	1200:1
TV Features		
Color Enhancement:	Yes	Yes
Built-in NTSC / ATSC / Clear QAM Tuner:	Yes	Yes
PIP / POP:	No	No
Close Caption:	Yes	Yes
Parental Control:	Yes	Yes
Electronic Programming Guide (EPG):	No	No
Picture Modes:	Yes	Yes
Audio		
Audio Technology:	MTS Stereo Decoder, Dolby Digital Decoder (5.1 Ch Pass Through)	MTS Stereo Decoder, Dolby Digital Decoder (5.1 Ch Pass Through)
Graphic Equalizer:	Yes	Yes
Speaker Output Power:	10 Watts x 2	10 Watts x 2
Convenience Features		
Ambient Sensor:	No	No
Interactive Setup Guide:	Yes	Yes
Input Port Naming:	Yes	Yes
Audio Only Mode:	Yes	Yes
HDMI-ARC:	Yes	Yes
HDMI-CEC:	Yes	Yes
USB Multimedia:	Yes	Yes
Remote:	Yes	Yes
Energy Saving Features		
Auto Power OFF (DPMS):	Yes	Yes
Energy Star:	Yes, Energy Star 6.0	Yes, Energy Star 6.0
Input / Output		
Input:		
Antenna In:	1	1
HDMI:	3 (one port for MHL)	3 (one port for MHL)
Component:	1	1
Composite (RCA):	1 (shared with component)	1 (shared with component)
VGA / RGB:	0	0
Music Port:	1	1
USB:	1	1
Output:		
Optical Digital Audio Out:	1	1
Stereo Audio Out:	1	1
Mechanical		
Wall Mount Pattern:	200mm x 200mm	200mm x 200mm
Without Stand (WxHxD) and Weight (Approx.):	37.7" x 22.1" x 2.5" / 15.9 lbs	43.2"x 27.0" x 2.0" / 36.5 lbs
With Stand (WxHxE) and Weight (Approx.):	37.7" x 24.2" x 7.7" / 17.6 lbs	43.2" x 29.1" x 9.5" / 38.1 lbs

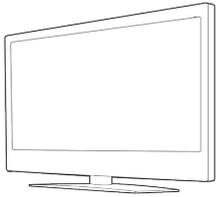
	EM55FTR	EM65FTR
Display Specification:		
Size Class (Diagonal):	55" (actual viewable size: 54.6")	65" (actual viewable size: 65")
Resolution / Aspect:	1920 x 1080 / 16:9	1920 x 1080 / 16:9
Backlit:	DLED	DLED
Refresh Rate / Frame Rate:	CM120Hz	CM120Hz
Contrast Ration:	1200:1	4000:1
TV Features		
Color Enhancement:	Yes	Yes
Built-in NTSC / ATSC / Clear QAM Tuner:	Yes	Yes
PIP / POP:	No	No
Close Caption:	Yes	Yes
Parental Control:	Yes	Yes
Electronic Programming Guide (EPG):	No	No
Picture Modes:	Yes	Yes
Audio		
Audio Technology:	MTS Stereo Decoder, Dolby Digital Decoder (5.1 Ch Pass Through)	MTS Stereo Decoder, Dolby Digital Decoder (5.1 Ch Pass Through)
Graphic Equalizer:	Yes	Yes
Speaker Output Power:	15 Watts x 2	15 Watts x 2
Convenience Features		
Ambient Sensor:	No	No
Interactive Setup Guide:	Yes	Yes
Input Port Naming:	Yes	Yes
Audio Only Mode:	Yes	Yes
HDMI-ARC:	Yes	Yes
HDMI-CEC:	Yes	Yes
USB Multimedia:	Yes	Yes
Remote:	Yes	Yes
Energy Saving Features		
Auto Power OFF (DPMS):	Yes	Yes
Energy Star:	Yes, Energy Star 6.0	Yes, Energy Star 6.0
Input / Output		
Input:		
Antenna In:	1	1
HDMI:	3 (one port for MHL)	3 (one port for MHL)
Component:	1	1
Composite (RCA):	1 (shared with component)	1 (shared with component)
VGA / RGB:	0	0
Music Port:	1	1
USB:	1	1
Output:		
Optical Digital Audio Out:	1	1
Stereo Audio Out:	1	1
Mechanical		
Wall Mount Pattern:	400mm x 400mm	400mm x 400mm
Without Stand (WxHxD) and Weight (Approx.):	48.6" x 28.5" x 2.8" / 38.6 lbs	60" x 38.5" x 2.25" / 91.6 lbs
With Stand (WxHxE) and Weight (Approx.):	48.6" x 30.2" x 11" / 43.9 lbs	60" x 41" x 15.4" / 103.5 lbs

What's in the **box**

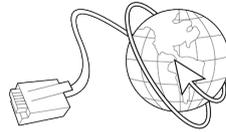


Roku Streaming Stick™

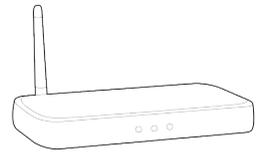
What you **need**



Roku Ready™ TV
(or other device)

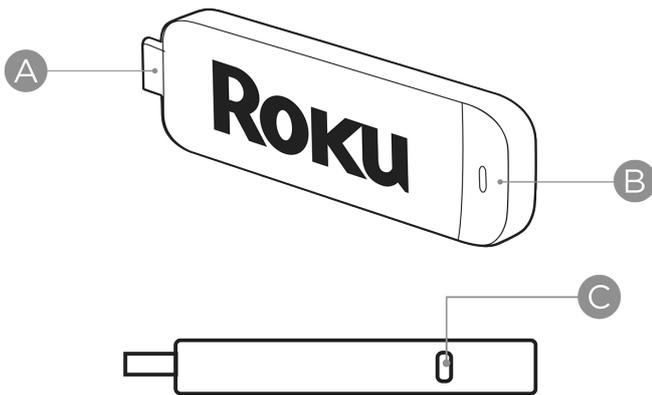


High speed
Internet



Wireless Router

Know your **Streaming Stick**



A **[MHL CONNECTOR]** Plugs into the MHL port on the back of your TV.

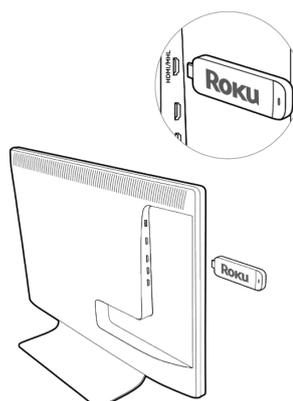
B **[STATUS LIGHT]** Signifies it is on when lit, or activity when flashing.

C **[RESET BUTTON]** Used to reset your Streaming Stick (you probably won't ever have to use this).

What to do

Plug it in

Plug your Roku Streaming Stick into the MHL port of your TV or other Roku Ready device. Simple as that!



Connect to network

Connect to network Now you can grab your remote and jump right into guided setup. Have your network name and password ready and do the following:

- Select your network from the list of available networks.
- Enter your network password, if you use one. Remember, network passwords are case sensitive.

Complete guided setup

It's the final stretch and hooray—it's a breeze! Continue following the on-screen instructions and you'll:

- Get the latest software.
- Link the Roku Streaming Stick to your Roku account on your computer.

Your Roku account:

During setup, you'll be prompted to create your Roku account online at roku.com/link. Your Roku Streaming Stick will generate a unique code that links your player to your new account. Roku accounts are free and secure.

And while a valid credit card number is required to create your account, rest assured you will only be charged if you authorize purchases of apps and games from the RokuChannel Store.

Troubleshooting

Having trouble completing setup? Don't worry: it's usually an easy fix.

If you cannot see a picture on your TV:

- Make sure your TV is turned on. (This tip could save you some embarrassment.)
- Make sure the video input on your TV or home theater receiver is set to match the output (usually HDMI or MHL) used with the Roku Streaming Stick.
Most TVs have an Input button on the remote control to change video inputs.

If you cannot connect to your wireless home network during guided setup:

- If you are not getting 3 or more signal-strength bars above your wireless network, adjust the location of your Roku Streaming Stick and/or wireless router.
Make sure there are no obstructions, like cement walls, between your Roku Streaming Stick and your wireless router.
- Make sure you select the correct wireless router name on the "Wireless" screen.
- Make sure you enter the correct password, if your network is security-enabled (password is case sensitive).
- If you have turned off SSID broadcasting on your wireless router, you can add your network by selecting "My network is not shown" from the "Wireless" screen.

If you cannot hear sound:

- Make sure the connectors on the cables between your TV and home theater receiver are pushed in all the way.
- Make sure the volume on your TV or home theater receiver is turned up and isn't on mute.
- Make sure the input on your TV or home theater receiver matches the output (HDMI or MHL) used with your Roku Streaming Stick.

Need more help?

roku.com/support

Get the most out of your Roku Streaming Stick.

Check out our FAQs, instructional videos and user forums.

ROKU®

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Limited Warranty

ON PARTS AND LABOR

This Limited Warranty covers units that are purchased as new and in the United States Only. This Product is manufactured, distributed, and warranted by AmTRAN Video Corporation (hereinafter known as "Warrantor") under brand license by JVC KENWOOD Corporation. The Warrantor provides a warranty to the original purchaser of a new Product against defects in materials and workmanship for a period of one (1) year of non-commercial usage and ninety (90) days of commercial use. If a Product covered by this warranty is determined to be defective within the warranty period, the Warrantor will either repair or replace the Product at its sole option and discretion.

To obtain warranty service, contact our Technical Support:

Visit the Web Site: <http://jvc-tv.com/support>

Or call our Customer Support and Service Center

1-855-868-1928

PRE-AUTHORIZATION MUST BE OBTAINED BEFORE SENDING ANY PRODUCT TO A DESIGNATED SERVICE CENTER.

Proof of purchase in the form of a purchase receipt or copy thereof is required to show that a Product is within the warranty period.

Parts and Labor

There will be no charge for parts or labor during the warranty period. Replacement parts and Products may be new or recertified at the Warrantor's option and sole discretion. Replacement parts and Products are warranted for the remaining portion of the original warranty or for ninety (90) days from warranty service or replacement, whichever is longer.

Type of Service

Defective Products must be sent to the designated service center to obtain warranty service. The Warrantor is not responsible for the transportation costs to the service center, but will cover the costs for return shipping to the customer. PRE-AUTHORIZATION IS REQUIRED BEFORE SENDING ANY PRODUCT TO A DESIGNATED SERVICE CENTER FOR WARRANTY SERVICE.

Product returned to designated service centers must utilize either the original carton box and shipping material or packaging that affords an equal degree of protection. Technical Support will provide instructions for packing and shipping the covered Product to the designated service center.

Limitations and Exclusions

The Warrantor's one-year limited warranty only covers defects in materials and workmanship. This warranty does not cover product issues caused by any other reason, including but not limited to cosmetic damage, normal wear and tear, improper operation, improper voltage supply or power surges, signal issues, damages from shipping, acts of God, any type of customer misuse, modifications or adjustments, as well as installation and set-up issues or any repairs attempted by anyone other than by an authorized service center. Products with unreadable or removed serial numbers, or requiring routine maintenance are not covered. This one year limited warranty does not cover Products that are sold "AS IS", "Open Box", "FACTORY RECERTIFIED", or by a non-authorized reseller.

THERE ARE NO EXPRESS WARRANTIES OTHER THAN THOSE LISTED OR DESCRIBED ABOVE. ANY IMPLIED WARRANTIES, INCLUDING ANY IMPLIED WARRANTY OF MERCHANTABILITY

AND FITNESS FOR A PARTICULAR PURPOSE, SHALL BE LIMITED IN DURATION TO THE PERIOD OF TIME SET FORTH ABOVE. THE WARRANTOR'S TOTAL LIABILITY FOR ANY AND ALL LOSSES AND DAMAGES RESULTING FROM ANY CAUSE WHATSOEVER INCLUDING WARRANTOR'S NEGLIGENCE, ALLEGED DAMAGE, OR DEFECTIVE GOODS, WHETHER SUCH DEFECTS ARE DISCOVERABLE OR LATENT, SHALL IN NO EVENT EXCEED THE PURCHASE PRICE OF THE PRODUCT. THE WARRANTOR SHALL NOT BE RESPONSIBLE FOR LOSS OF USE, LOSS OF INFORMATION OR DATA, COMMERCIAL LOSS, LOST REVENUE OR LOST PROFITS, OR OTHER INCIDENTAL OR CONSEQUENTIAL DAMAGES. SOME STATES DO NOT ALLOW LIMITATIONS ON HOW LONG AN IMPLIED WARRANTY LASTS OR THE EXCLUSION OF INCIDENTAL OR CONSEQUENTIAL DAMAGES, SO THE ABOVE LIMITATIONS OR EXCLUSIONS MAY NOT APPLY TO YOU. THIS WARRANTY GIVES YOU SPECIFIC LEGAL RIGHTS, AND YOU MAY ALSO HAVE OTHER RIGHTS, WHICH VARY FROM STATE TO STATE. THIS WARRANTY IS SUBJECT TO CHANGE WITHOUT NOTICE. CHECK TV.JVC.COM FOR THE MOST CURRENT VERSION.

Personal Data

If your Product is capable of storing personal data and other information, all contents and information will be deleted in the course of some in-home and all ship-in warranty service. If this occurs, your product will be restored to you configured as originally purchased. You will be responsible for restoring all applicable data and passwords. Recovery and reinstallation of user data is not covered under this Limited Warranty. In order to protect your personal information, we recommends that you always clear all personal information from the unit before it is serviced, regardless of the servicer.

Important Open Source Software Notice

Some JVC device may contain free software which is based on the license granted under the GNU General Public License and Lesser General Public License (hereinafter "GPL/LGPL") that are subject to the GPL2.0/LGPL2.1 You may use, modify, or distribute only if you agree to all of the terms and conditions of the GPL/LGPL. For more details on the list of JVC devices with open source software, please visit <http://jvc-tv.com/support>

Please note that any software component developed or created independently by AmTRAN Video Corporation shall not be subject to "GPL/LGPL" requirement for provision of the source code. Users are urged to read the details for the relevant license carefully before using the software component covered by "GPL/LGPL."

You can obtain a copy of the GPL/LGPL license from <http://www.gnu.org/licenses/gpl> and <http://www.gnu.org/licenses/lgpl>.

For details of any open source software on your JVC device, please visit the following web site: <http://jvc-tv.com/support>

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Roku Streaming Stick™

Important Product Information

The License Agreement

The Roku and third-party software license terms can be found at: www.roku.com/license. Use of the Roku Streaming Stick (“Streaming Stick”) constitutes acceptance of as well as agreement to those license terms.

One (1) Year Limited Hardware Warranty

Subject to the additional terms and conditions set forth below, Roku provides this Limited Warranty:

- Only to the person or entity that originally purchased the Streaming Stick from Roku or from one of its authorized re-sellers or distributors; and
- Only for Streaming Sticks purchased and delivered to the end user within the United States and Canada.

Limited Warranty

Roku warrants the Streaming Stick hardware against defects in materials and workmanship under normal use for a period of one (1) year from the date of purchase (“Warranty Period”). If Roku determines that the Streaming Stick’s hardware is defective, Roku will either repair the unit or replace the unit with either a new or rebuilt Streaming Stick, at its option. If the Warranty Period has expired or is otherwise not applicable (see Scope and Limitation on Warranty below), we will return the Streaming Stick to you. More information about this warranty can be found at www.roku.com/support. THE FOREGOING SETS FORTH ROKU’S SOLE OBLIGATION AND YOUR EXCLUSIVE REMEDY IN THE EVENT OF ANY BREACH OF THIS LIMITED WARRANTY. Return and Warranty Service Process Please access and review the online help resources at www.roku.com/support before seeking warranty service. To return or obtain warranty service for a Streaming Stick, you must first obtain a Return Merchandise Authorization (RMA) number from a Customer Support Representative (CSR) at Roku. Customer Support contact information can be found by visiting www.roku.com/support. RMA numbers expire thirty days from issuance. Roku may attempt to troubleshoot a warranty-related problem prior to issuing a RMA number. Please be prepared to provide additional information upon request. Once a RMA number is obtained, you must ship your Streaming Stick, freight prepaid, together with proof of purchase and all accessories, in either the original packaging or packaging affording an equal degree of protection, to the Roku authorized distribution facility identified by the CSR. Failure to return any of the accessories could result in a delay and/or result in an invoice to you or credit to Roku for the missing accessories. Important: When emailing for a RMA number, please provide the following information with your request: (a) model number, (b) serial number, (c) problem description, (d) software version (located in the System Configuration menu), (e) date of purchase, (f) place of purchase (reseller or online place of purchase), and (g) return shipping address (P.O. boxes are not accepted). Scope of and Limitation on Warranty The warranty on the Streaming Stick is limited to the repair or replacement of defective units as described in the Limited Warranty section above. This warranty does not cover customer training or education, installation, set up adjustments, or signal reception problems. This warranty also does not cover any issue related to the service provided by your Service Provider, including but not limited to service disruption, changes in service terms, changes in offerings, changes in format, or technical problems. This warranty does not cover damage due to acts of God, accident, misuse, abuse, negligence, commercial use or modification of, or to any part of, your Streaming Stick.

This warranty does not cover damage due to improper operation or maintenance, connection to improper voltage supply or attempted repair by anyone other than a facility authorized by Roku to service your Streaming Stick. This warranty does not cover consumables (such as fuses and batteries).

Legal Notices

Federal Communication Commission Interference Statement

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 of the following measures:

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

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.

FCC Caution: Any changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate this equipment. IEEE 802.11b or 802.11g operation of this product in the U.S.A. is firmware limited to channels 1 through 11. Wireless Radio Use: This device is restricted to indoor use when operating in the 5.15 to 5.25 GHz frequency band.

IMPORTANT NOTE:

FCC Radiation Exposure Statement: This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with minimum distance 20cm between the radiator and your body. This transmitter must not be collocated or operating in conjunction with any other antenna or transmitter.

Note to US model owner:

To comply with US FCC regulation, the country selection function has been completely removed from all US models. The availability of some specific channels and/or operational frequency bands are country dependent and are firmware programmed at the factory to match the intended destination. The firmware setting is not accessible by the end user.

Industry Canada statement

This device complies with RSS-210 of the Industry Canada 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.

French translation:

Ce dispositif est conforme à la norme CNR-210 d'Industrie Canada applicable aux appareils radio exempts de licence. Son fonctionnement est sujet aux deux conditions suivantes: (1) le dispositif ne doit pas produire de brouillage préjudiciable, et (2) ce dispositif doit accepter tout brouillage reçu, y compris un brouillage susceptible de provoquer un fonctionnement indésirable.

Safety Precautions

The Streaming Stick has been designed with the highest concern for safety. However, any electrical device, if used improperly, has the potential for causing fire, electrical shock or personal injury. To help ensure accident-free operation, follow these guidelines:

- Observe all warnings, precautions and instructions.
- Stop use, unplug the device that the Streaming Stick is inserted into from the electrical outlet and disconnect any other cables immediately if the Streaming Stick or the device functions in an abnormal manner, produces unusual sounds or smells or becomes too hot to touch.
- For more information on product safety and troubleshooting, please go to www.roku.com/support.

Use and Handling

- When playing video games, use in a well-lit area and stand or sit as far away from the screen as possible.
- Take a 10-15 minute break every hour if playing video games and avoid prolonged use of the remote.
- Stop playing video games if you begin to feel tired or if you experience discomfort or pain in your hands or arms while operating the remote if the condition persists, consult a doctor.
- If you experience any of the following health problems, discontinue use of the Streaming Stick immediately:
 - Dizziness, nausea, fatigue or symptoms similar to motion sickness.
 - Discomfort or pain in a part of the body, such as eyes, ears, hands, or arms. If symptoms persist, consult your physician.
- Keep the Streaming Stick and any accessories, including the remote, out of the reach of small children.
- Do not touch the Streaming Stick during an electrical storm.
- Do not allow liquid, small particles or other foreign objects to get into the Streaming Stick or accessories.
- Do not expose the Streaming Stick to smoke or steam.
- Do not expose the Streaming Stick or accessories to high, temperatures, high humidity or direct sunlight.

www.roku.com

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JVC

Do not send product or other
correspondence to this address

Place
Stamp
Here

JVC

Attn: Product Registration

**P.O. BOX 50427
IRVINE, CA 92619**

Register Online: <http://jvc-tv.com/support>

First Name	
Last Name	
Address	
Apt. #	
City	
State	
Zip Code	
Phone Number	
E-mail Address	

Model Number	
Serial Number	
Dealer Name	
Purchase Price	
Date of Purchase	
Comments	

I would like to receive the JVC Community e-mail newsletter

WE ARE HERE TO HELP!



FOR HELP WITH TELEVISION SUPPORT:

1-855-868-1928

WE CAN HELP YOU WITH:

DAMAGED PACKAGE • MISSING PARTS • TECHNICAL SUPPORT

FOR HELP WITH ROKU STREAMING STICK™:

CALL ROKU CUSTOMER SUPPORT : 1-888-600-7658 (ROKU)

WWW.ROKU.COM/SUPPORT

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