

JVC

User Manual

BlackCrystal™ Series LED TV

BC50R

50" Class



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

We Are Here To Help!



**Before Returning the Product
Call Our Customer Service at**

1-855-868 1928

We can help you with

- Damaged Package
- Missing Parts
- Technical Support

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://go.jvc.com/HDTVSupport/>

We recommend that you register your JVC LED TV either at our website <http://go.jvc.com/HDTVSupport/> 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.



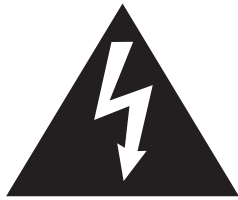
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CAUTION
RISK OF ELECTRIC SHOCK
DO NOT OPEN



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: 949-336-6633

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.

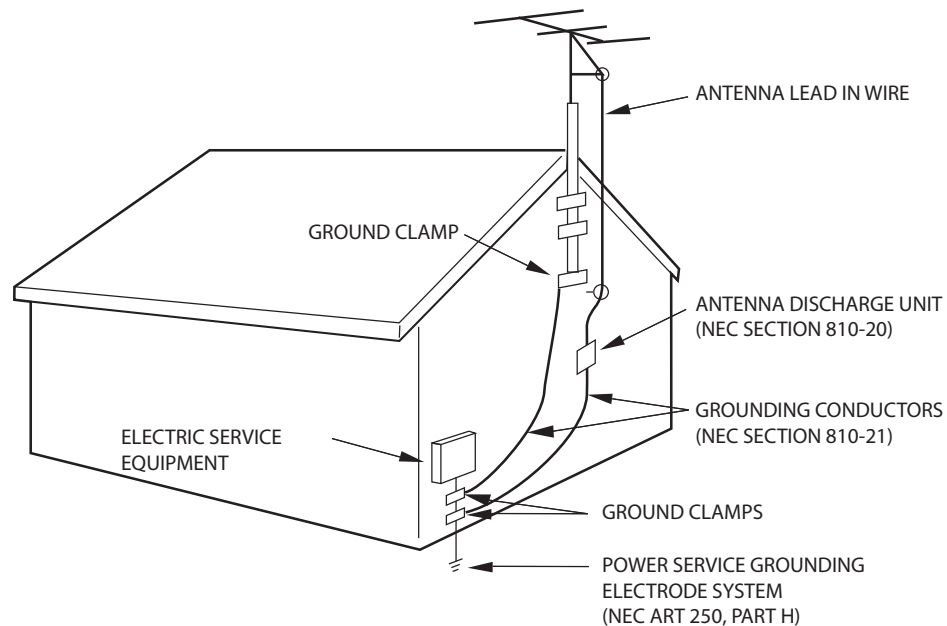
- LED Panels are manufactured using an extremely high level of precision technology, however sometimes parts of the screen may be missing picture elements or have luminous spots. This is not a sign of a malfunction.
- Do not install the TV near electronic equipment that produces electromagnetic waves. 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.

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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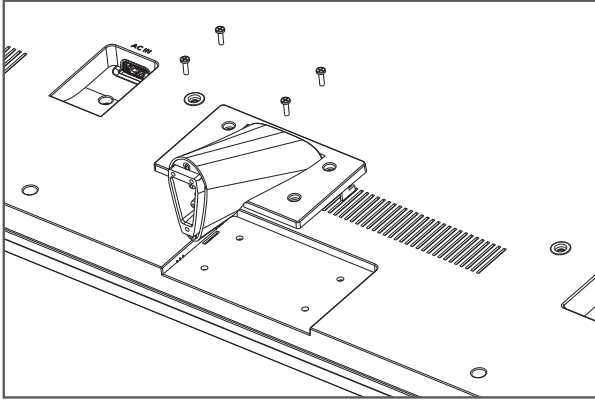
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Attaching the Stand

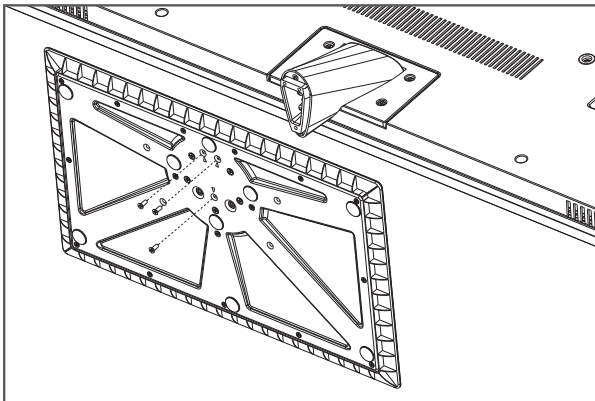
- 1 Place TV on flat surface and the protective bag. Screen face down.

Attach TV stand to rear of television with the provided four (4) pan head screw.



- 2 Mount the base to the stand with the provided three (3) flat head screws

Carefully lift TV up



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.

Package Contents

Check if the following items are included in your package.

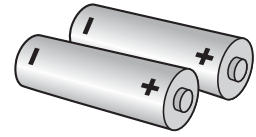
LED TV



Remote Control



Batteries



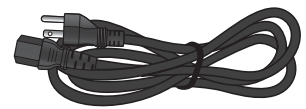
Quick Start Guide



User Manual

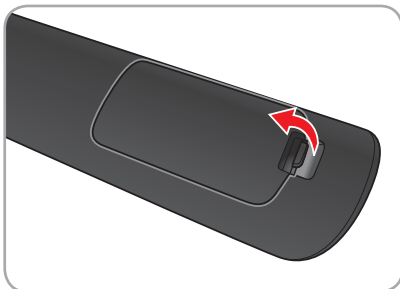


Power Cord

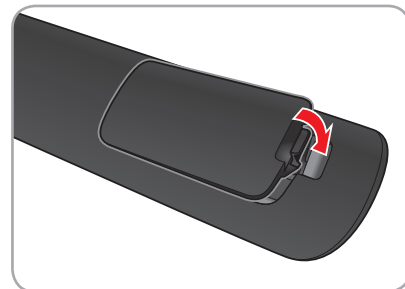


Remote Control Batteries

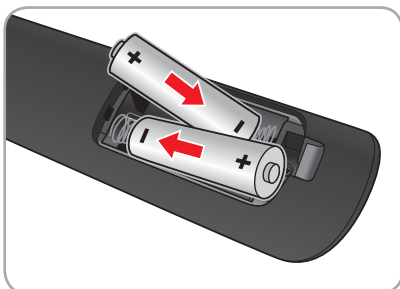
1 Push the tab, then lift to open the cover.



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

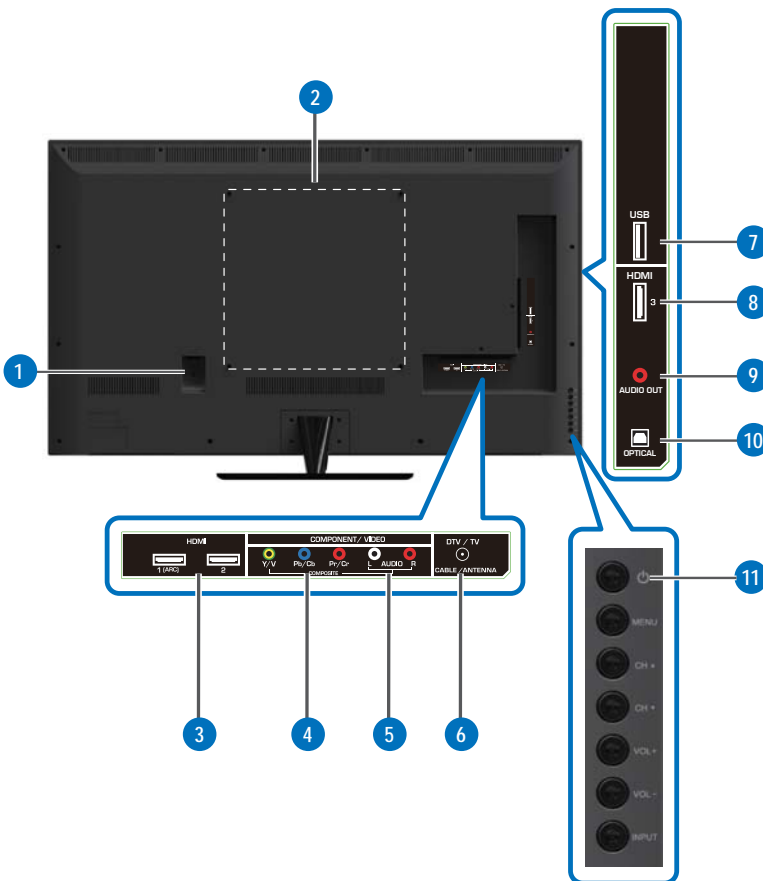
Front Views



Remote control sensor

Power indicator
 • Power ON: White

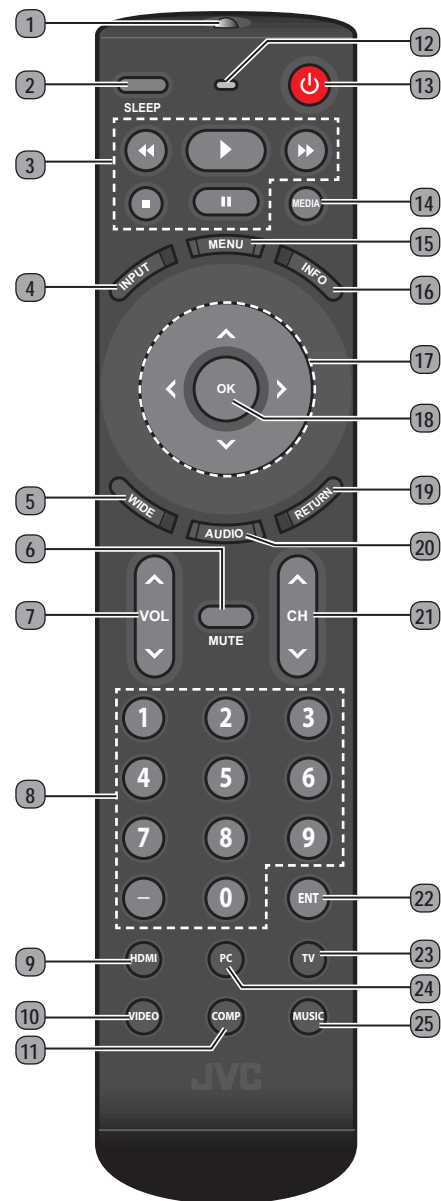
Rear View



- 1 AC power in
- 2 Wall mount holes
- 3 HDMI -1 (ARC) & HDMI-2
- 4 Component / Composite Video in
- 5 Component / Composite / Music port Audio in
- 6 Antenna in
- 7 USB port
- 8 HDMI-3
- 9 Analog audio / headphone out
- 10 Digital optical audio out
- 11 Control Panel: Power / Channel up/down / Volume up/down / Input

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 Playback controls: The buttons are used for Photo, Music, Video, and HDMI CEC function.
- 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 MEDIA button: Enter USB media mode.
- 15 MENU button: Display the MENU screen.
- 16 INFO button: Display program information (if available).
- 17 Direction buttons ▲ / ▼ / ◀ / ▶ : Navigate the menu, select options, or adjust settings value.
- 18 OK button: Enter a menu or confirm an option.
- 19 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. (function available for models with VGA input)
- 25 MUSIC button: Directly set Music as the input source signal.

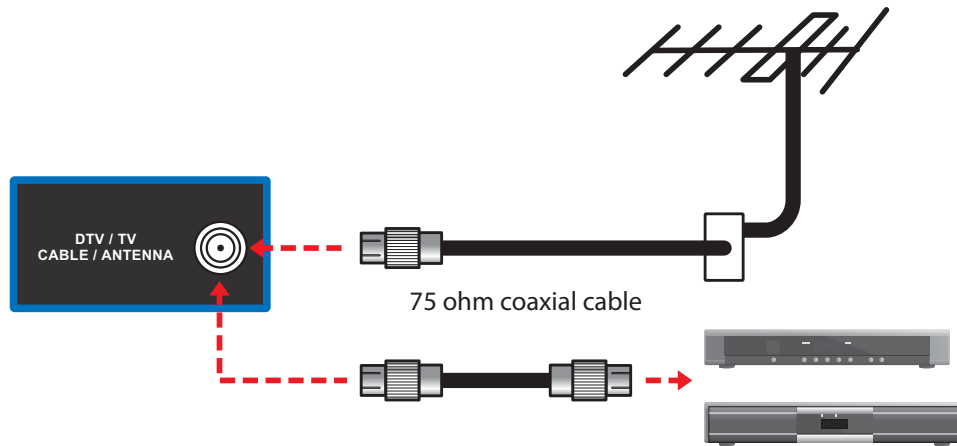


Notes:
 To obtain best results, use the remote control with a proper distance from the TV and ensure that there are no obstacles between them.
 Aim the remote control transmitter to the remote control sensor on the TV.
 Do not expose the remote control to direct sunlight. This may affect the performance 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.

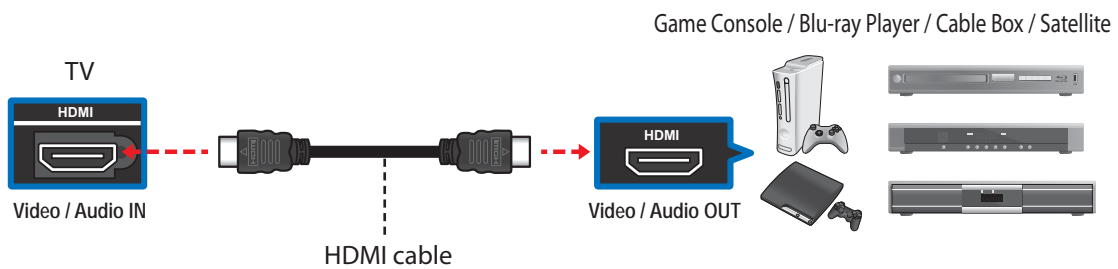


Connecting HD Devices

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

HDMI

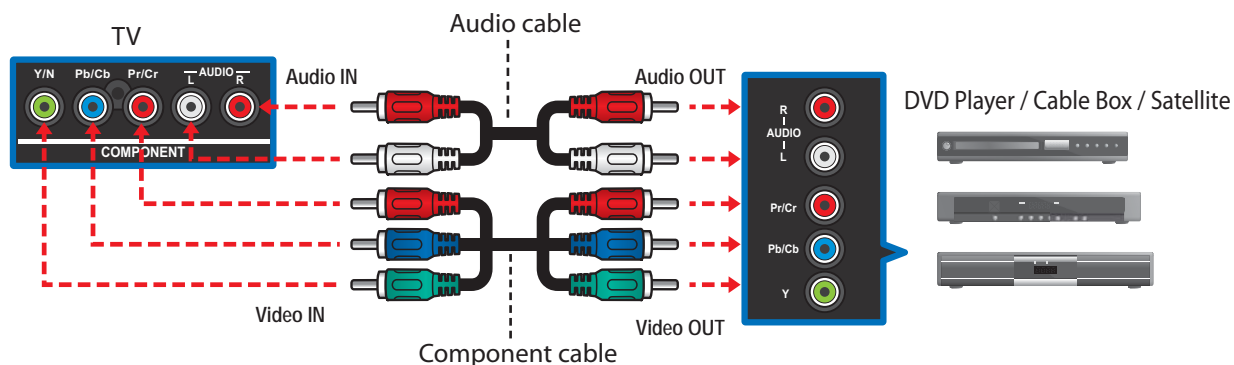
HDMI connection transmits both digital video and audio signals from an HDMI device to the TV.



Note: The HDMI cable is not included with the TV.

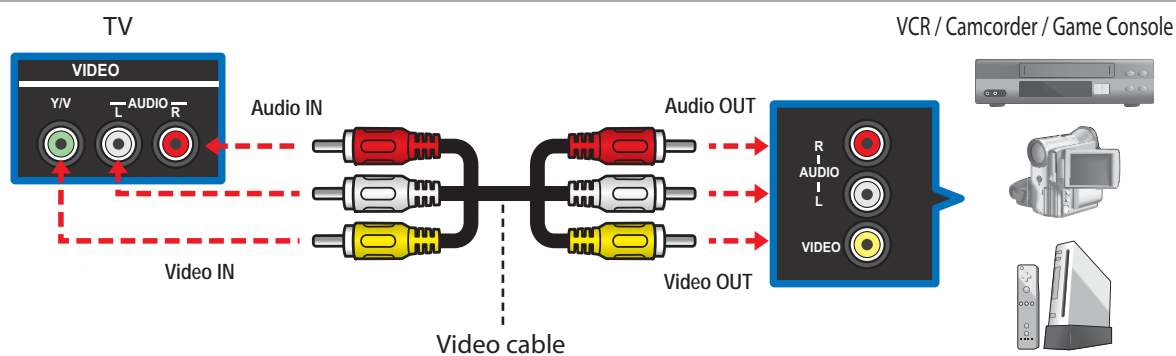
Making Connections

Component



Note: The component and audio cable are not included with the TV.

Composite



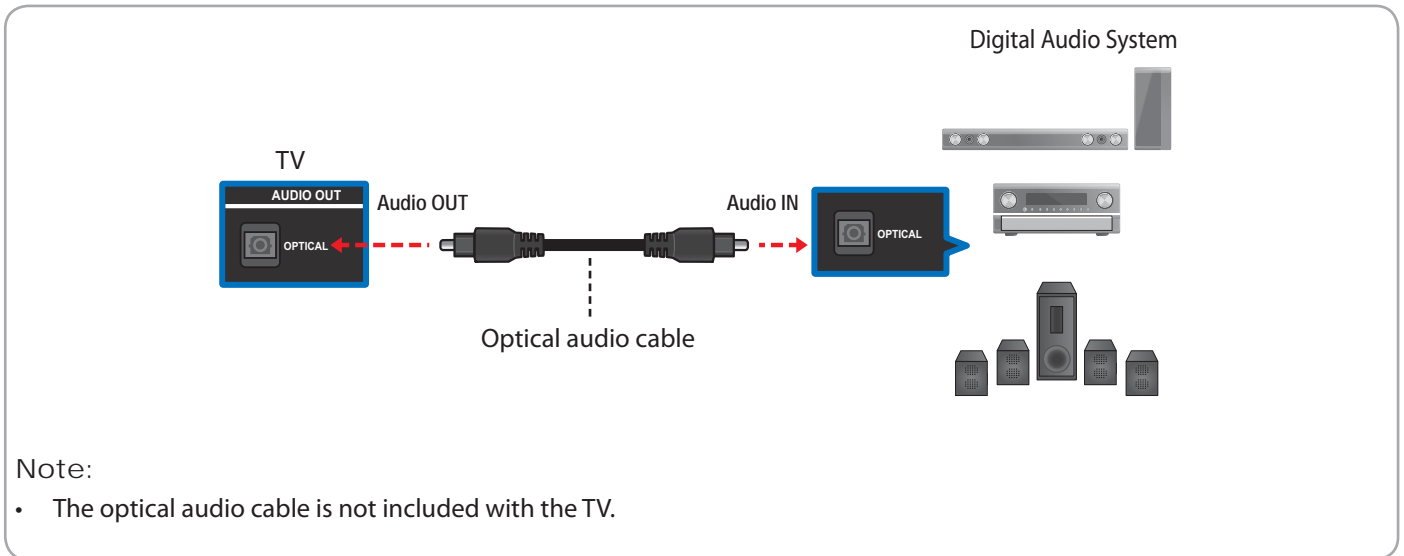
Note:

- The video and audio cable are not included with the TV.
- When connecting to devices, the Video IN color may not match with the video cable.

Connecting External Speakers / Soundbar / AV Receivers

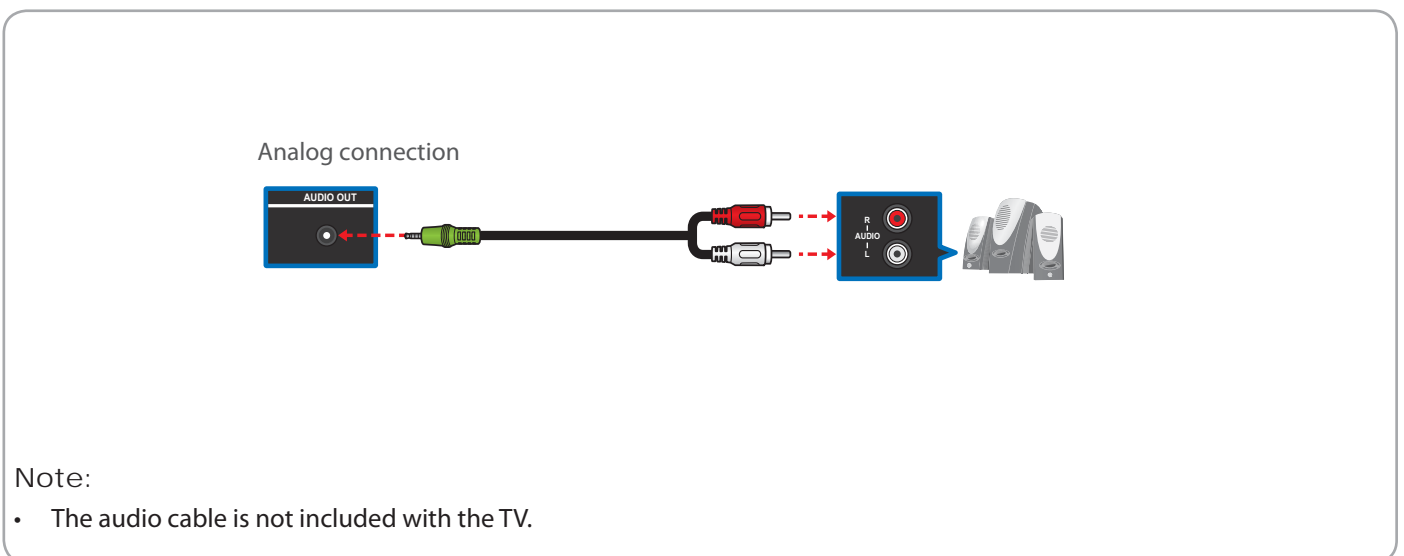
Digital Connection

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.



Analog Connection

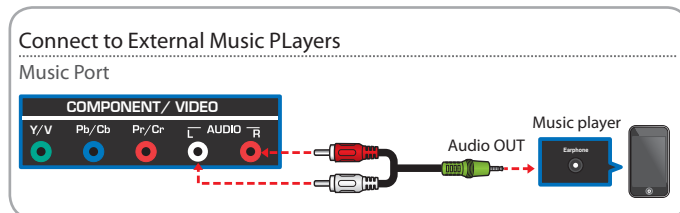
Connect the audio cable to the Audio OUT L/R port of the TV and the port of the soundbar, AV receiver, or audio system.



Connecting Music Port

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

- 1 Connect one end of an audio cable to the **Music Port (shared with component audio in)** of TV, then connect the other end to the **Audio OUT** port of the music player.



- 2 Press **MUSIC** on the remote control to change to the music port. The Music screen is displayed. Music playback from the music player is heard through the TV speakers.

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 15 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.



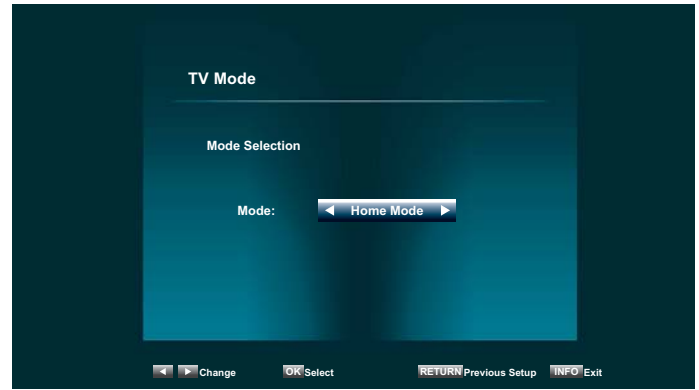
- 3 Press **<or>** to select the TV Mode, then press OK.

TV Mode options :

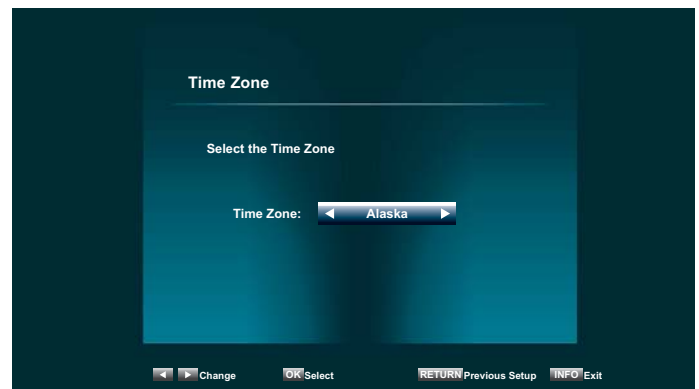
- Home Mode: Select this mode for in home use.
- Retail Mode: Select this mode for in store demo.
- High Performance Mode: Select this mode for high performance picture quality presets.

Note:

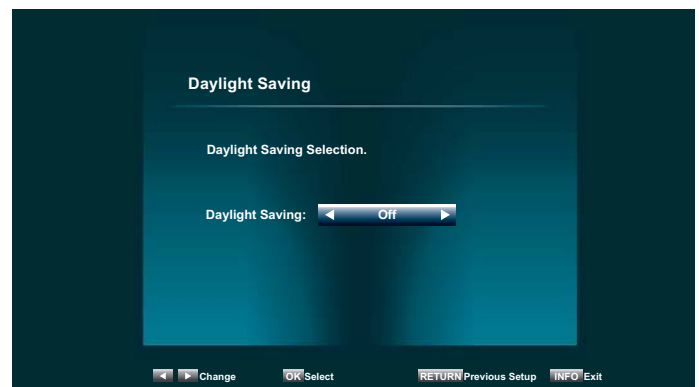
- Retail mode is for retailers only.
- To exit Retail mode, see page 19.



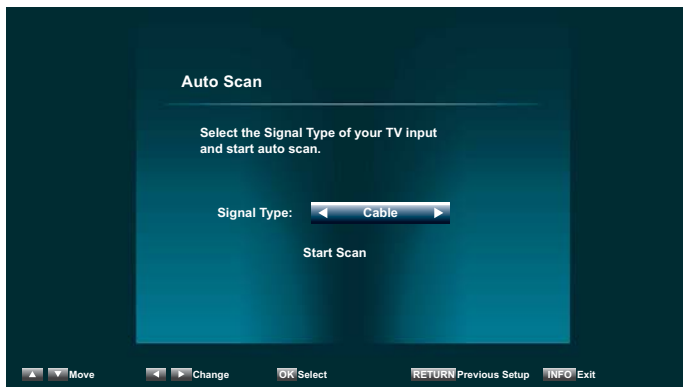
- 4 Press **<or>** to select the Time Zone, then press OK.



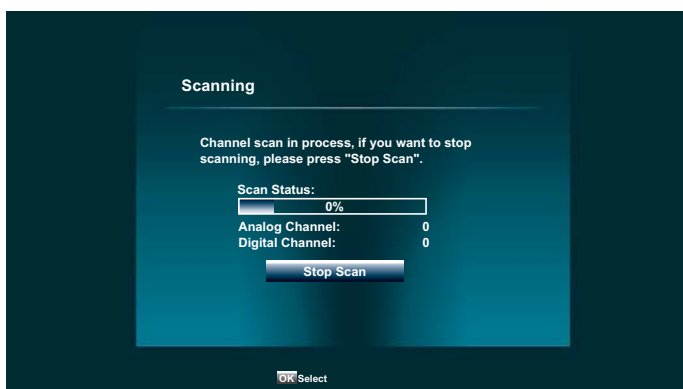
- 5 Press **<or>** to set Daylight Saving Time "ON" or "OFF", then press OK.



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



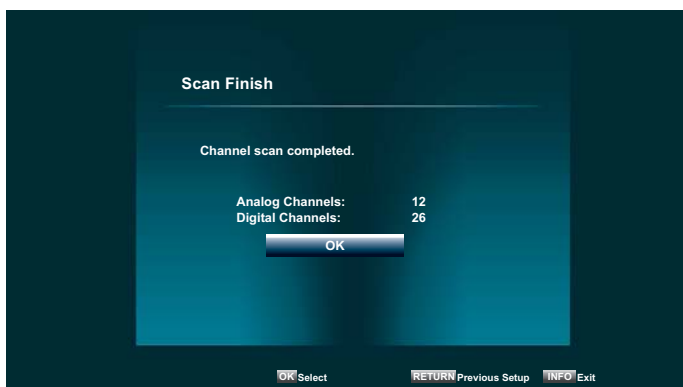
7 Press OK to start channel scan.



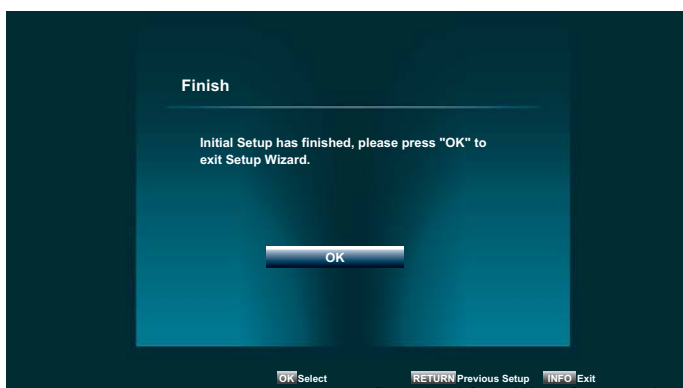
Note:

- 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.

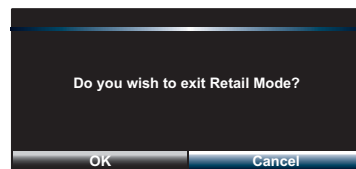


9 Press OK to complete setup.



Exit Retail Mode

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



Basic TV Operation

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 or CH ▲, CH ▼ on the TV to increase or decrease the channel.



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.

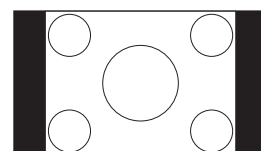
Press INFO again to hide the Info screen.

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.

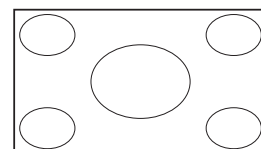
Normal

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.



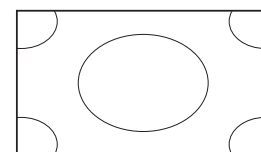
Wide

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.



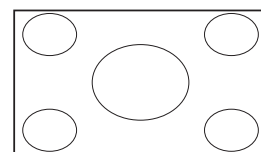
Zoom

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



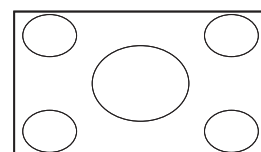
Panoramic

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.

Selecting Input Source

The TV provides various ways to select the input source:

On the TV Panel

- Press **INPUT** repeatedly to scroll through the input source options. The highlighted input source is selected after a few seconds.

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.

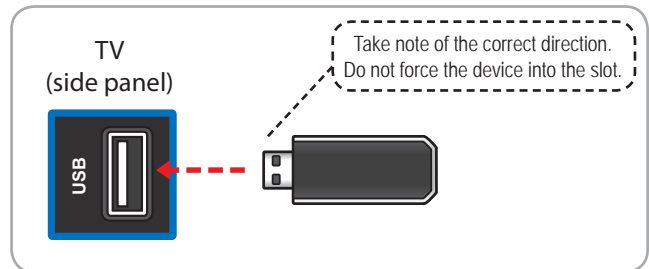


Multimedia Mode

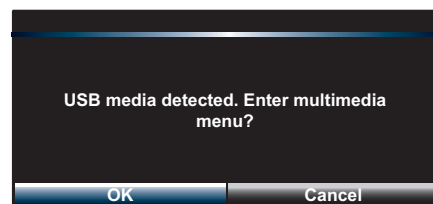
The TV allows you to play photos slide shows from a USB memory stick

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** The displayed screen varies depending on the media type you selected.
Press \blacktriangledown , \blacktriangle , \blacktriangleleft or \blacktriangleright 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.

- 7** To exit USB mode, press MEDIA. Or, to go back to a previous screen, press RETURN.

Note: To playback files in Multimedia mode at a later time, press MEDIA.

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.

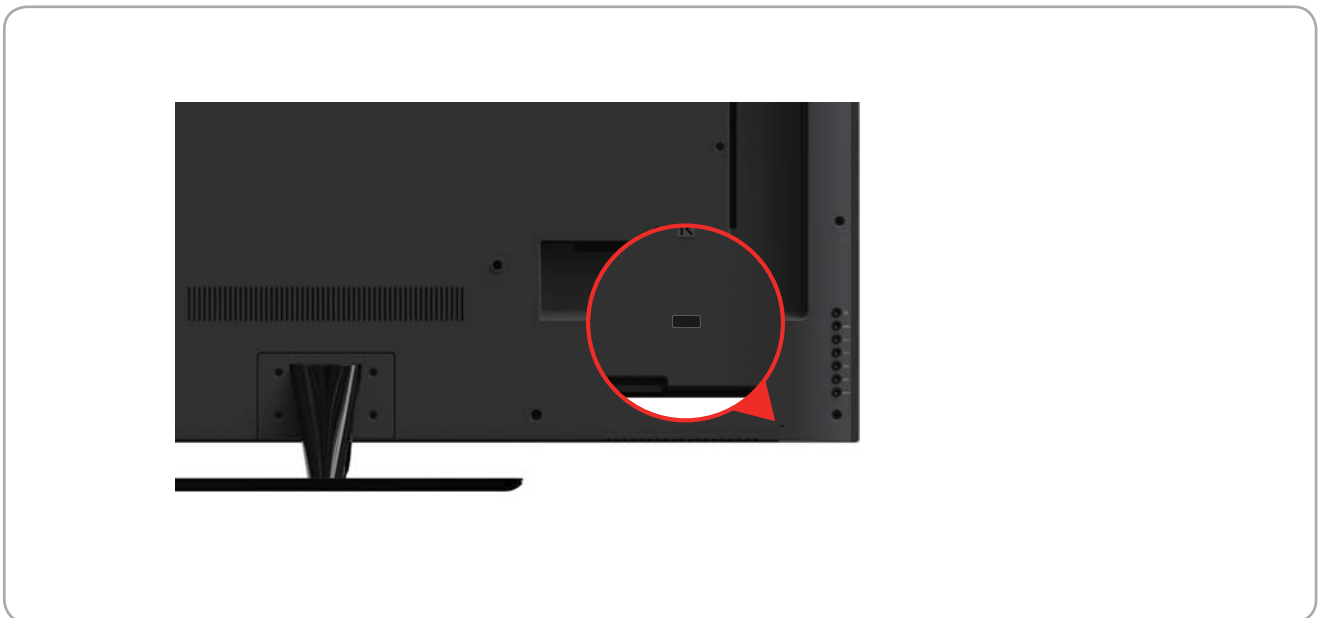
- 1** Press AUDIO to activate Audio Only mode. A message appears on the screen, then after a few seconds, the TV display turns off.
- 2** Press any button to turn on the display again and exit Audio Only mode.

Kensington Lock

Security Deterrent Kensington Lock

The TV provides you with security deterrent slot hole that are compatible to Kensington Locks. This helps securely affix the TV physically to other objects. The appearance and locking method differs depending on the manufacturer. Refer to the manual provided with the Kensington Lock for information on installation.

The location of the security deterrent slot differs depending on the TV model. Please refer to your TV model and security deterrent slot location below:



Note: The Kensington Lock is not included with the product.

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.

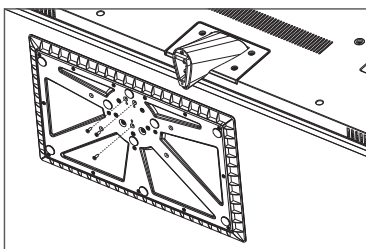


For product protection and safety reasons, JVC strongly recommends contacting a technician or professional for assistance installing the wall mount and setting up the TV. If you decide to install the wall mount and TV without the assistance of a technician or professional, JVC will not be responsible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

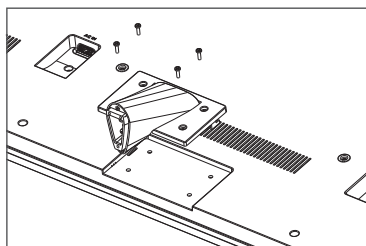


Do not install your wall mount while your TV is turned on. It can result in personal injury due to electric shock

- 1 Disconnect all cables connected to your TV.
- 2 Carefully place the TV face down on a flat and clean surface. It is recommended to place the TV cover or protection sheet between the TV and flat surface.
- 3 Remove the flat head screw on the base.



- 4 Remove the pen head screw on the back of TV.



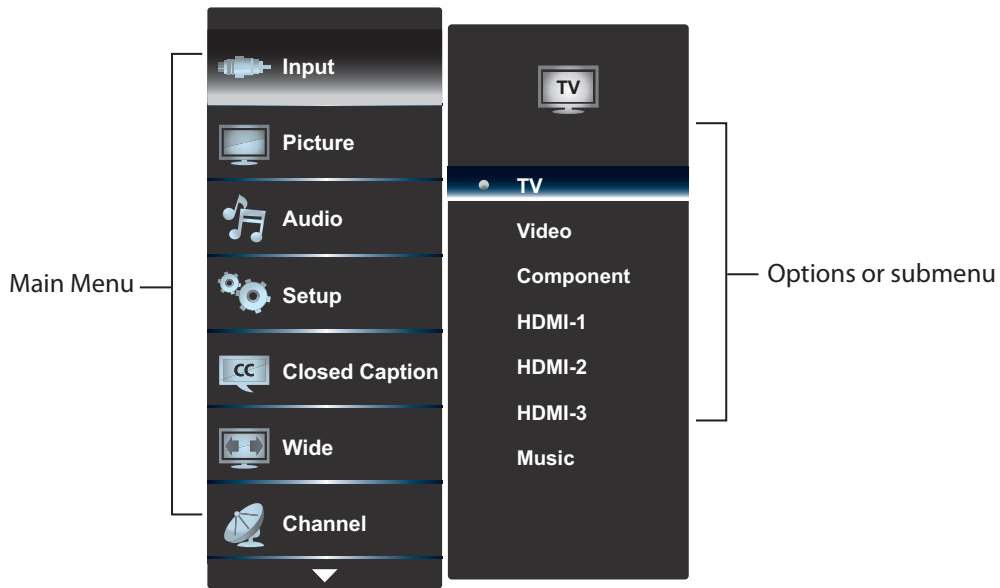
- 5 Attach your wall mount and TV to the wall, carefully following the instructions provided with the wall mount.

Wall Mount Specifications (VESA)

Product Model #	VESA hole pattern (mm)	Standard Screw	Screw Length (mm)
BC50R (50")	400 x 400	M8	16mm

Adjusting the Menu Settings

Quick Menu Operation

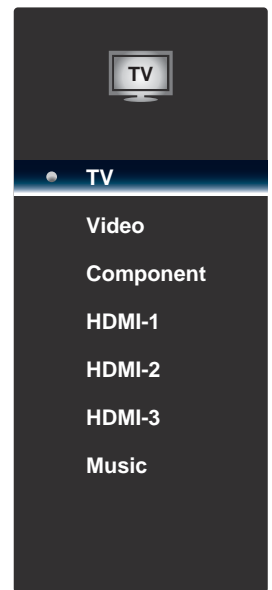


	Remote Control	TV Panel
1 Display the menu.	Press MENU.	Press MENU.
2 Select a menu option.	<ol style="list-style-type: none"> 1. Press ▼ or ▲ to select a menu or option. 2. Press OK or ▶ to enter a menu or confirm an option. 	<ol style="list-style-type: none"> 1. Press CH ▼ or CH ▲ to select a menu or option. 2. Press INPUT 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. 	<ol style="list-style-type: none"> 1. Press CH ▼ or CH ▲ to select an option. Or, press VOL - or VOL + to adjust a setting, such as Brightness. 2. Press INPUT 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 ◀ .	Press MENU .

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 (ARC):** To use devices connected via HDMI connection, or AV receiver support HDMI ARC (audio return channel).
- **HDMI 2,3:** To use devices connected via HDMI connection.
- **Music:** To play music from a music player connected via music port.



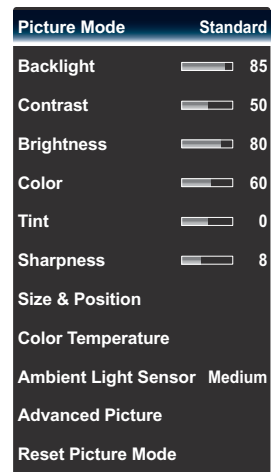
Picture Menu

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)

Adjusting the Menu Settings

Tint

Adjust the picture hue. (-50 ~ 50)

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.

Ambient Light Sensor

Select the sensitivity of the ambient light sensor to automatically adjust to light changes in the room. (Off / Low / Medium / High)

Advanced Picture

CrystalColor™	CrystalColor™ produces more vivid and crisp color pictures. (Off / Normal / Rich)
Dynamic Contrast	Dynamic contrast automatically enhances the image for greater picture details.
Local Dimming	Enable or disable local area backlight dimming (ON / OFF)
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.

Crystal Color™	Off
Dynamic Contrast	Off
Local Dimming	Off
Noise Reduction	Off
Digital NR	Off
Film Mode	Off

Reset Picture Mode

Reset the picture mode settings to default.

Audio Menu

XinemaSound™ 3D

Expansive & immersive, multi-dimensional surround sound experience.

Note:

- When XinemaSound™ 3D is on, Equalizer Settings menu is not available.

XinemaSound™ Leveler

Delivering smooth, steady volume levels from the quietest sound to the loudest volume with exceptional audio clarity.

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)

Analog Audio Out

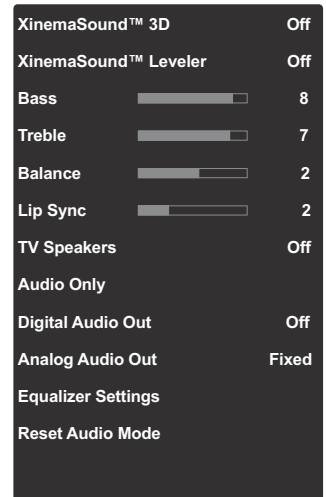
Select the type of analog audio output. (Fixed / Variable)

Equalizer Settings

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

Reset Audio Mode

Reset the audio mode settings to default settings.



Adjusting the Menu Settings

Setup Menu

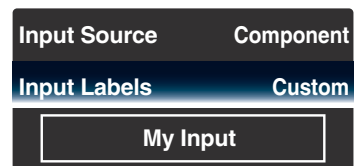
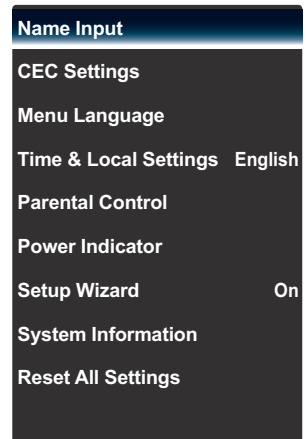
Name Input

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.



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 though 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.

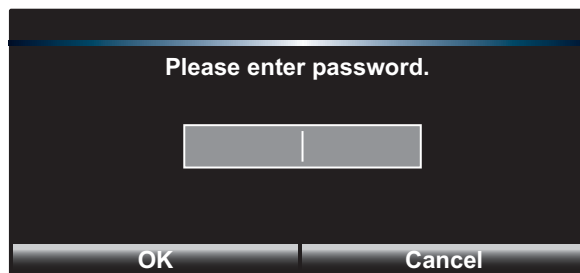
Parental Control

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.



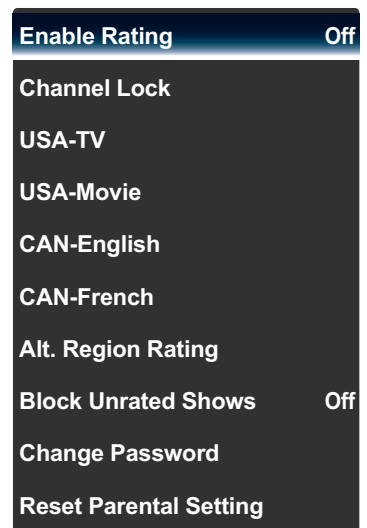
Note: The default password is "0000".

- 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.

Adjusting the Menu Settings

- "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.

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.

Analog Closed Caption	Off
Digital Closed Caption	Off
Digital CC Options	

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.

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.

TV Mode	Cable
Auto Channel Scan	
Partial Channel Scan	
Find Channel	
Channel Management	
Digital MTS	English

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 15.

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

- 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.

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. See page 21.

Appendix

Supported Resolution

Supported Video Timing (NTSC, Composite)	480i
Supported Video Timing (ATSC, Component, HDMI)	480i, 480p, 720p, 1080i, 1080 24p/60p

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 VOL + button on the TV. • 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

Model Name	BC50R	
Size Class (Diagonal)	50" (50.5" diagonal)	
Resolution/Aspect	1920 x 1080 / 16:9	
Backlit	Edge LED	
Frame Rate	120Hz CrystalMotion™	
Contrast Ratio	20M:1 (Dynamic)	
Viewing Angle	178/178	
Display Color	16.7M	
TV Features		
Color Enhancement	Yes, CrystalColor™	
Built-in NTSC/ ATSC/ Clear QAM tuner	Yes	
Local Dimming	Yes	
Close Caption	Yes	
Parental Control	Yes, V-Chip 2.0	
Audio Technology	XinemaSound™ 3D Dolby Digital Decode	
MTS Decode	Yes	
Speaker Output Power	20W (10Wx2)	
Ambient Sensor	Yes	
Audio Only Mode	Yes	
HDMI-ARC	Yes, HDMI – 1	
HDMI-CEC	Yes	
USB Multimedia	Picture	
Energy Star	Yes	
Input / Output		
Input	Antenna in	1
	HDMI	3
	Component / Composite (RCA)	1 (shared)
	Music port	1 (shared with Component Audio In)
	USB	1
Output	Optical Digital Audio Out	1
	Stereo Audio Out	1 (headphone)
Mechanical		
Wall Mount Pattern	VESA (400x400mm), M8 screws	
Without Stand (approx.)	44.3" x 26.2" x 2", 34.87 lbs	
With Stand (approx.)	44.3" x 28.4" x 11", 40.7 lbs	
Carton (approx.)	51.7" x 30.4" x 5", 47.08 lbs	
Input Voltage	120V AC	
Max Power Consumption	Max: 125W Standby: <1W	

Note : CrystalMotion™ is a set of motion enhancement technologies including Motion-Estimation/Motion-Compensation or Backlight Scanning or both.

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: go.jvc.com/HDTVSupport/
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 recommend that you always clear all personal information from the unit before it is serviced, regardless of the servicer.

AmTRAN Video Corporation, PO Box 50427 Irvine, CA 92619

Please do not send products or other correspondence to this address.

PLACE
STAMP
HERE



Attn: Product Registration

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

Online Registration: GO.JVC.COM/HDTVSupport

PRODUCT REGISTRATION

First Name:	_____	Date of Purchase:	_____
Last Name:	_____	Model Number:	_____
Address	_____	Serial Number:	_____
Apt. #	_____	Purchase Price:	_____
City	_____	Dealer:	_____
State:	_____		
Zip Code:	_____		
Phone Number:	_____		
E-Mail Address:	_____		

- | | | | |
|----|--|-----|----|
| 1) | Would you like to receive the JVC Community e-mail newsletter? | Yes | No |
| 2) | Would you like to receive special offers from JVC? | Yes | No |

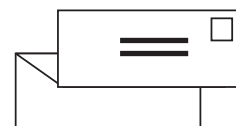
Comments:

THANK YOU FOR PURCHASING THIS JVC PRODUCT

Registering your product will allow us to contact you in the unlikely event a product safety notification is required.

Instruction: Fold at crease and tape open edge in the middle

This form is for Product Registration purposes only. Failure to return this form does not diminish your rights during the warranty period.



We Are Here To Help!



**Before Returning the Product
Call Our Customer Service at**

1-855-868 1928

We can help you with

- Damaged Package
- Missing Parts
- Technical Support

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