



## Black Crystal 3002 Series LCD TV

**JLC32BC3002** 32" Class

**JLC37BC3002** 37" Class

**JLC42BC3002** 42" Class

**JLC47BC3002** 47" Class



Before operating your LCD 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

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Welcome to the JVC family of customers. We hope that you will have many years of enjoyment from your new JVC LCD TV. To get the most out of your JVC LCD 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 LCD 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 LCD 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.

The lamp in this product contains mercury. Disposal of these materials may be regulated due to environmental considerations. For disposal or recycling information, please contact your local authorities or the Electronic Industries Alliance (<http://www.eiae.org>).

# 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

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- 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 LCD PANEL**

- Do not press hard or jolt the LCD panel. It may cause the LCD panel glass to break and injury may occur.
- If the LCD panel is broken, make absolutely sure that you do not touch the liquid in the panel. This may cause skin inflammation.
- If the liquid gets in your mouth, immediately gargle and consult with your doctor. Also, if the liquid gets in your eyes or touches your skin, consult with your doctor after rinsing for at least 15 minutes or longer in clean water.

## **Possible Adverse Effects on LCD Panel:**

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

- LCD Panels are manufactured using an extremely high level of precision technology, however sometimes parts of the screen may be missing picture elements or have luminous spots. 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

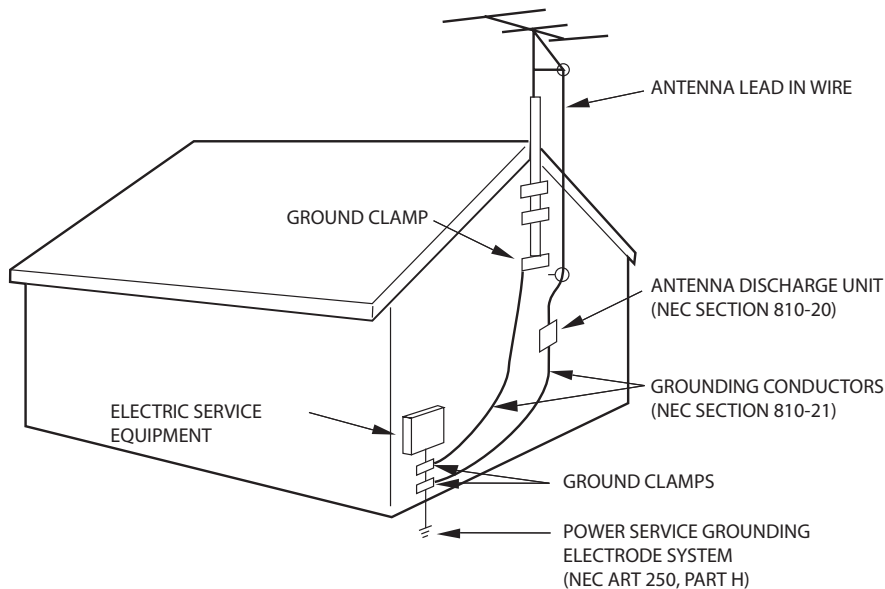
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## Television Antenna Connection Protection

### 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](http://www.dtv.gov).

FCC's Consumer Center

Email: [dtvinfo@fcc.gov](mailto: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

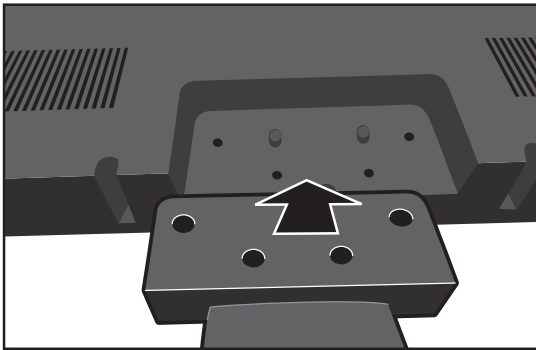
The stand installation varies depending on model. Perform the installation according to the instructions of your TV model.

## Unpacking the TV

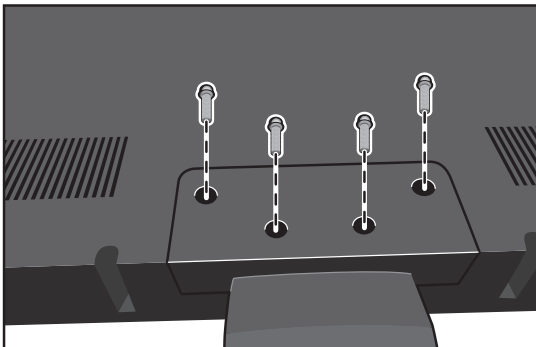
- 1** Remove the remote control, power cord, and other accessories from the foam end caps.
- 2** Remove the top foam caps.
- 3** Remove the stand.
- 4** Remove the TV from the box.
- 5** Place the TV face down on a flat and clean surface.
- 6** Attach the stand according to the instructions of your TV model.

### JLC32BC3002

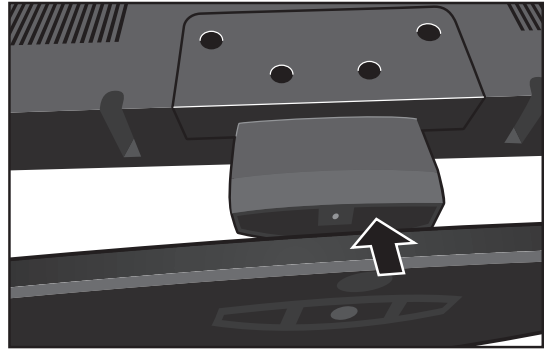
- 1** Align the rear-side screw holes with the stand.



- 2** Secure the stand with four screws.



- 3** Connect the base to the stand.

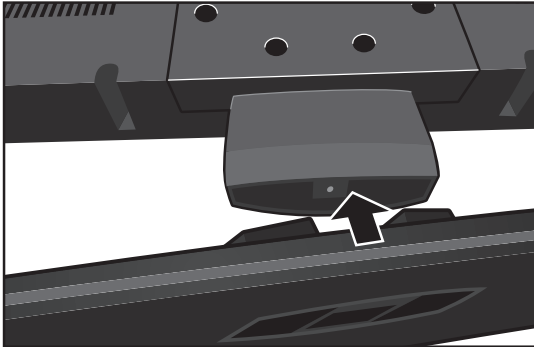


- 4** Secure the base to the stand with a thumbscrew.

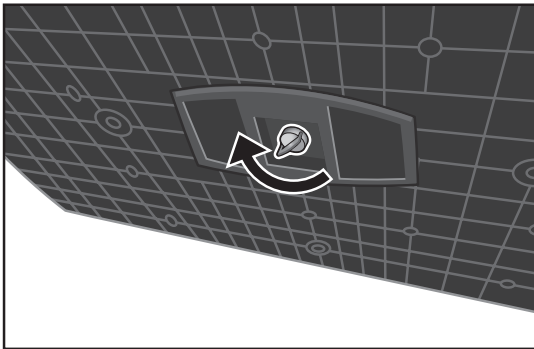


## JLC37BC3002 & JLC42BC3002

- 1 Connect the base to the stand.

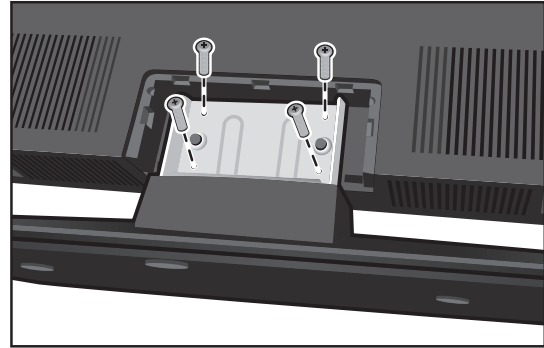


- 2 Secure the base with the thumbscrew.

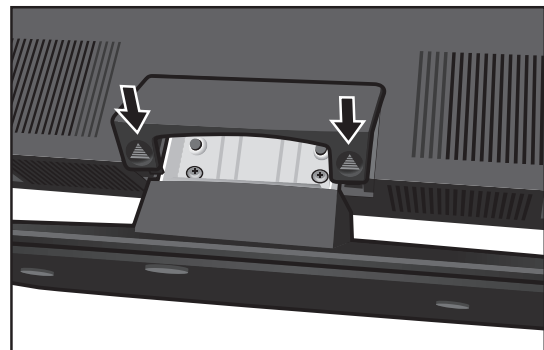


## JLC47BC3002

- 1 Align the bottom four screw holes with the neck and stand, and secure with the provided four screws and screwdriver.



- 2 Attach the neck cover firmly until it locks into place.



## 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.

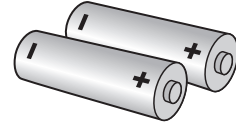
LCD TV



Remote Control



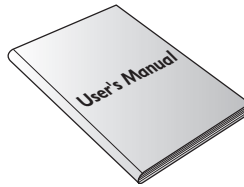
Batteries



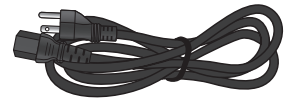
Quick Start Guide



User Manual

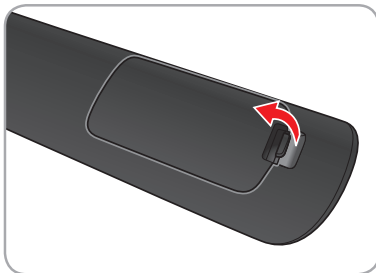


Power Cord

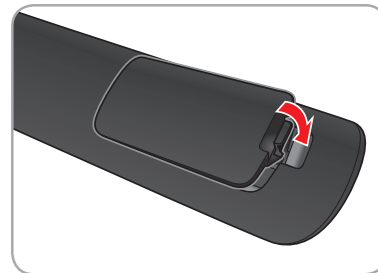


## Remote Control Batteries

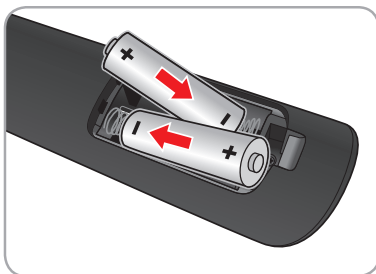
**1** Push the tab, then lift to open the cover.



**3** Close the battery cover.



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



### Battery Precautions:

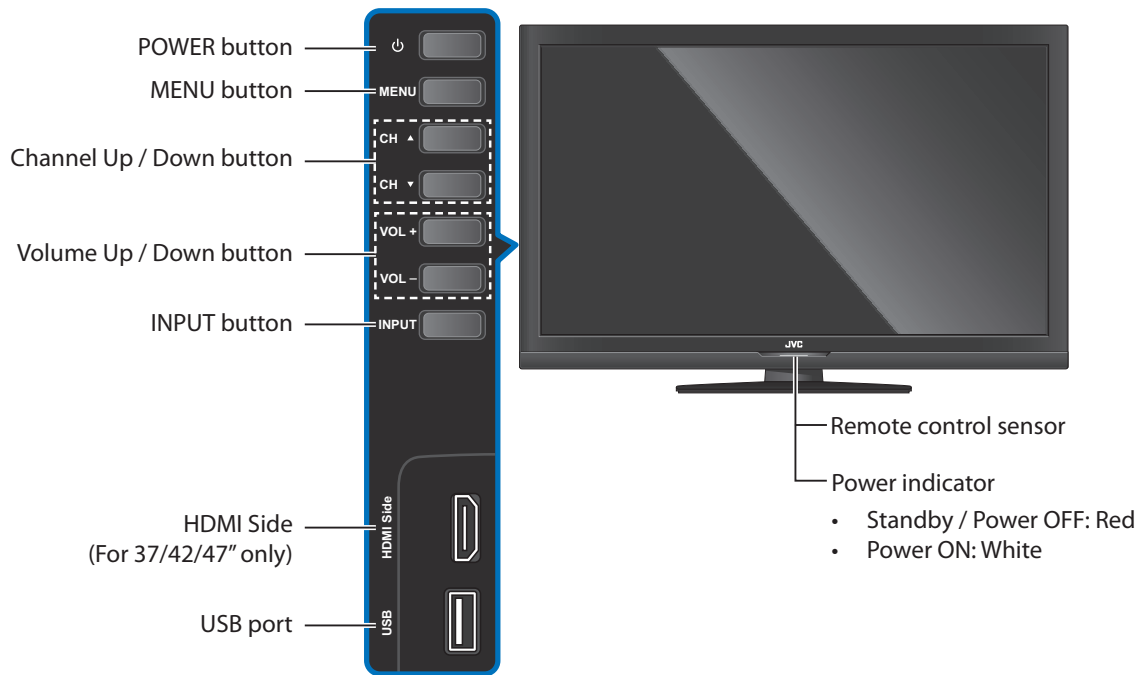
Be sure to follow the correct polarity. Incorrect installation may cause battery leakage or damage the remote control. Always replace batteries in pair. Do not combine a used battery with a new one.

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

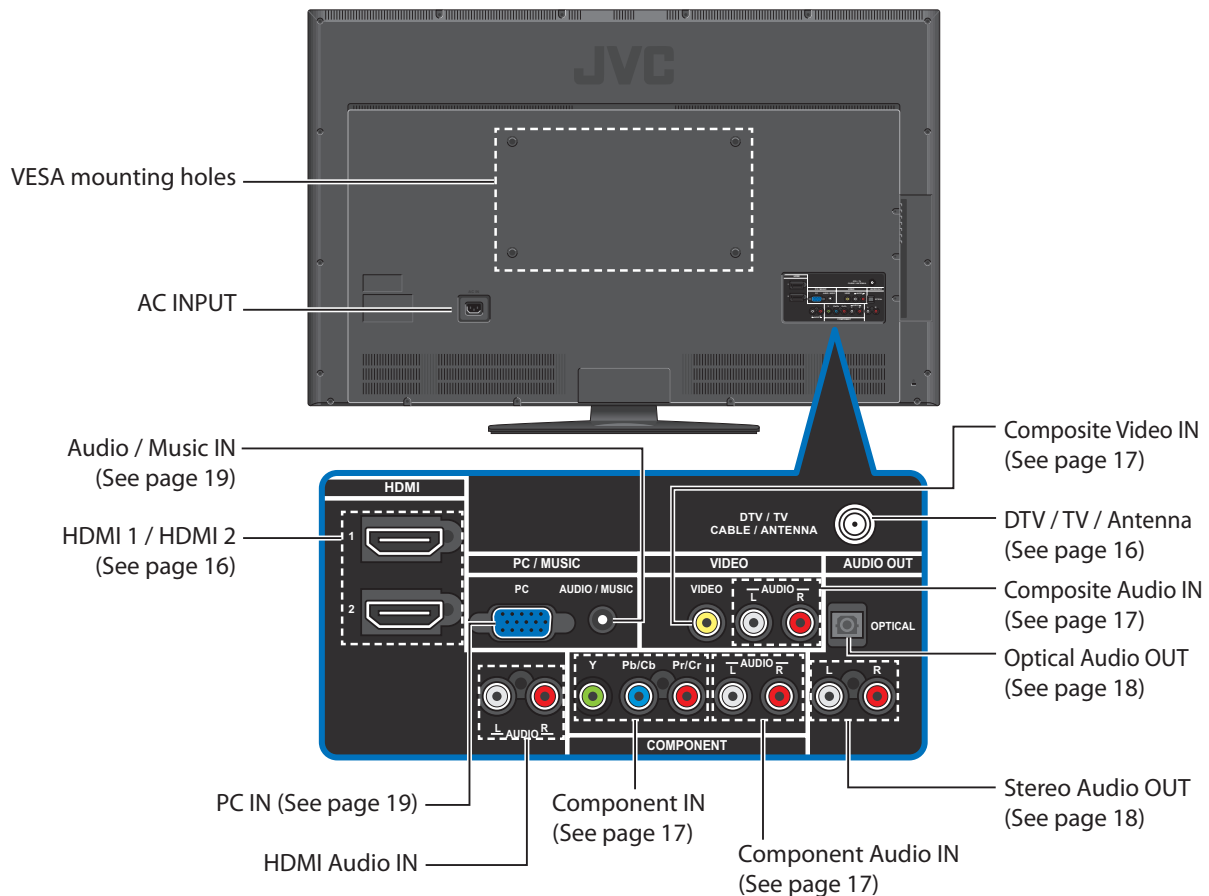
If the remote control is not to be used for a long period of time, remove the batteries to prevent battery leakage.

# Parts and Functions

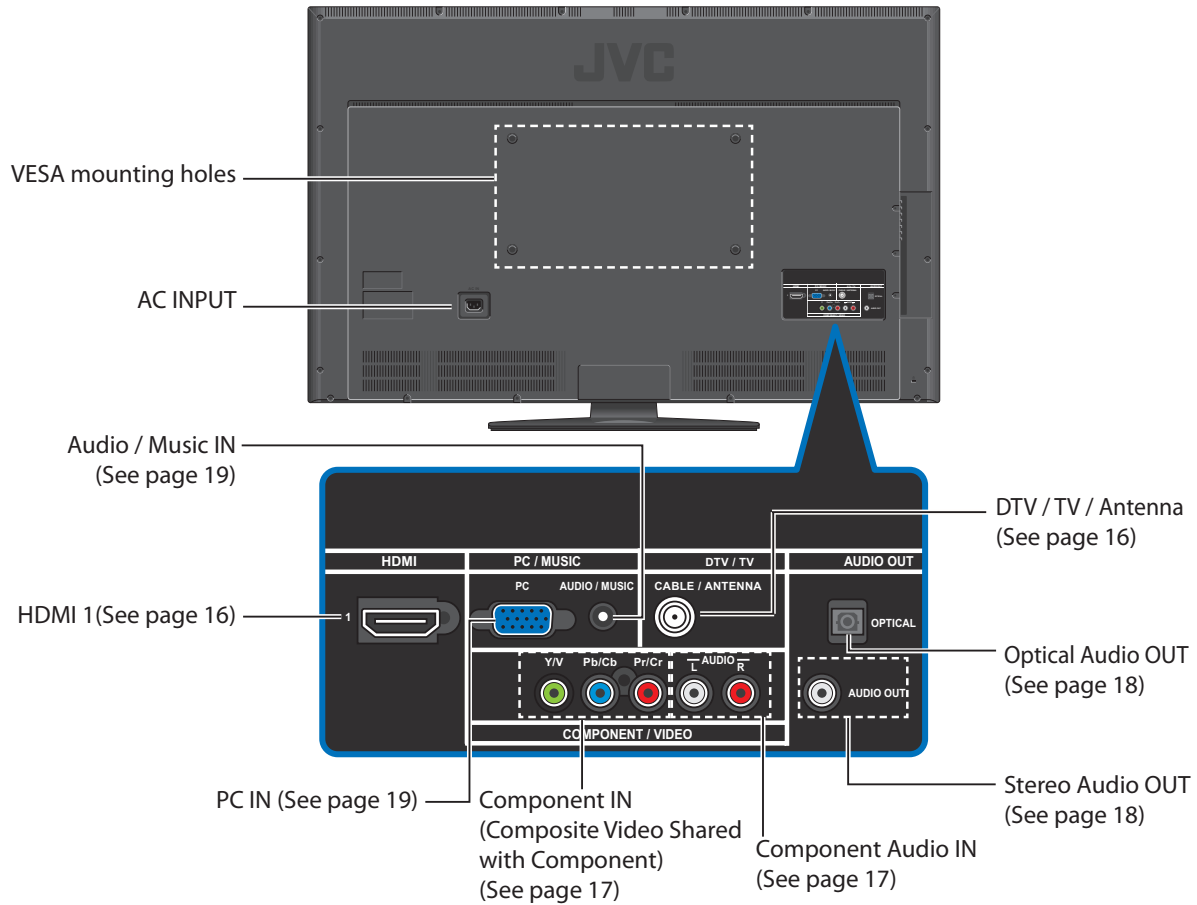
## Front and Side Views



## Rear View (JLC32BC3002)



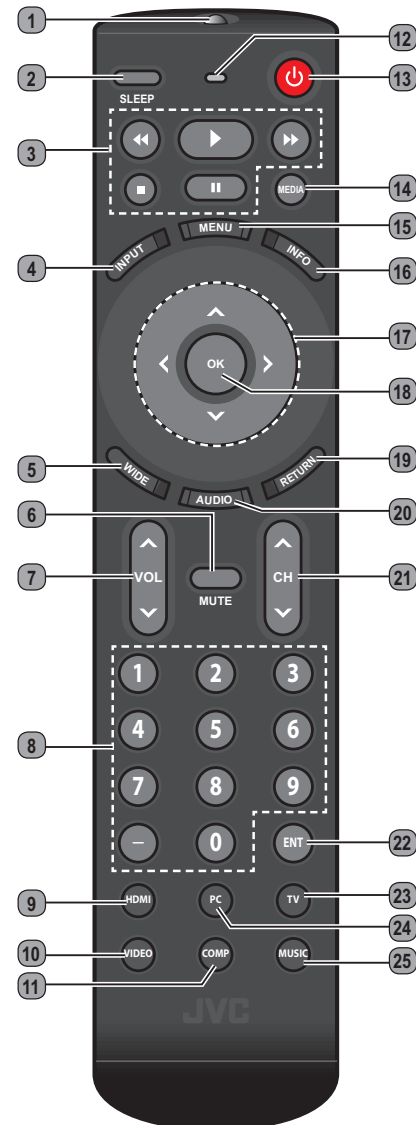
# Rear View (JLC37/42/47BC3002)





## 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 device.
- 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 v** 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 ^ / v / </>:** 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 25.
- 21 CH (Channel) buttons:** Use **CH ^** to increase the channel number or **CH v** 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.
- 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.

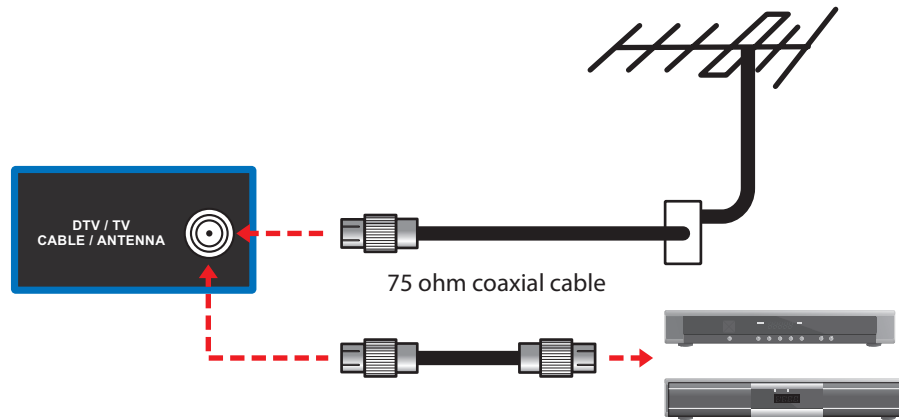
Aim the remote control transmitter to the remote control sensor on the TV.

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.

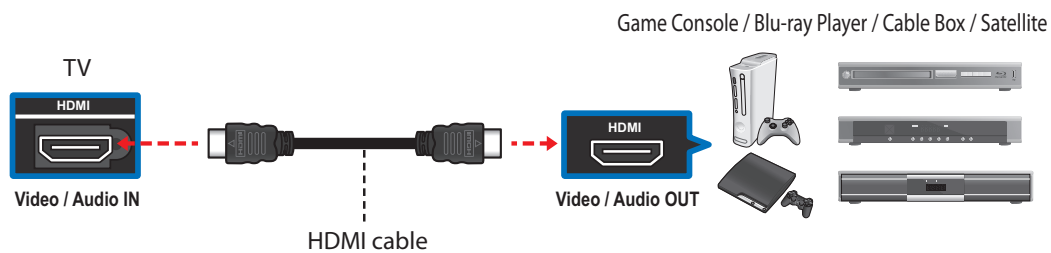


## Connecting HD Devices

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

### Via HDMI

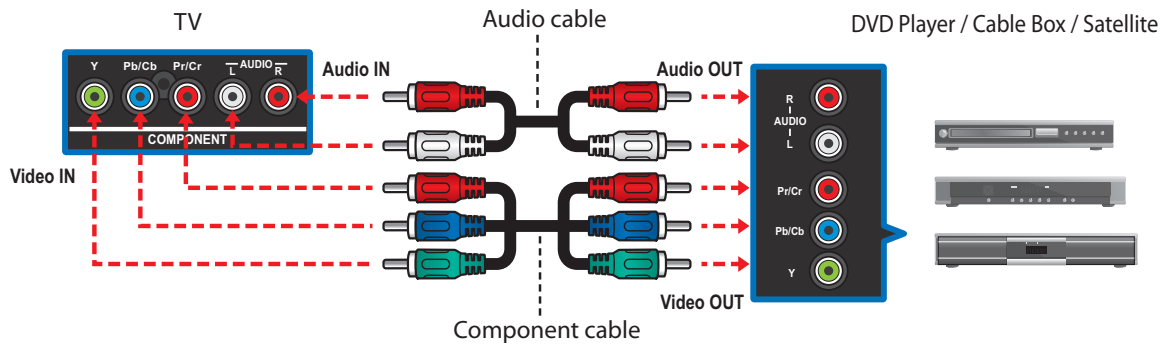
HDMI connection transmits both digital video and audio signals from an HDMI device to the TV.



**Note:** The HDMI cable is not supplied with the TV. Check your device package contents or contact your retailer to purchase one.

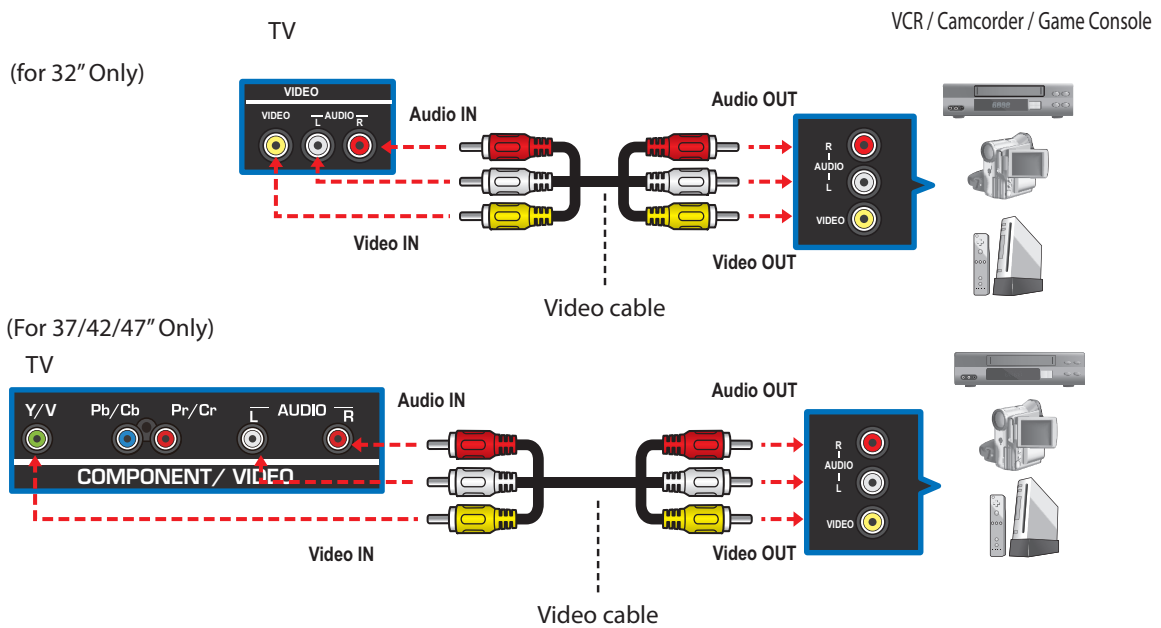
# Making Connections

## Via Component Connection



**Note:** The component cable and audio cable are not supplied with the TV. Check your device package contents or contact your retailer to purchase.

## Via Composite Connection

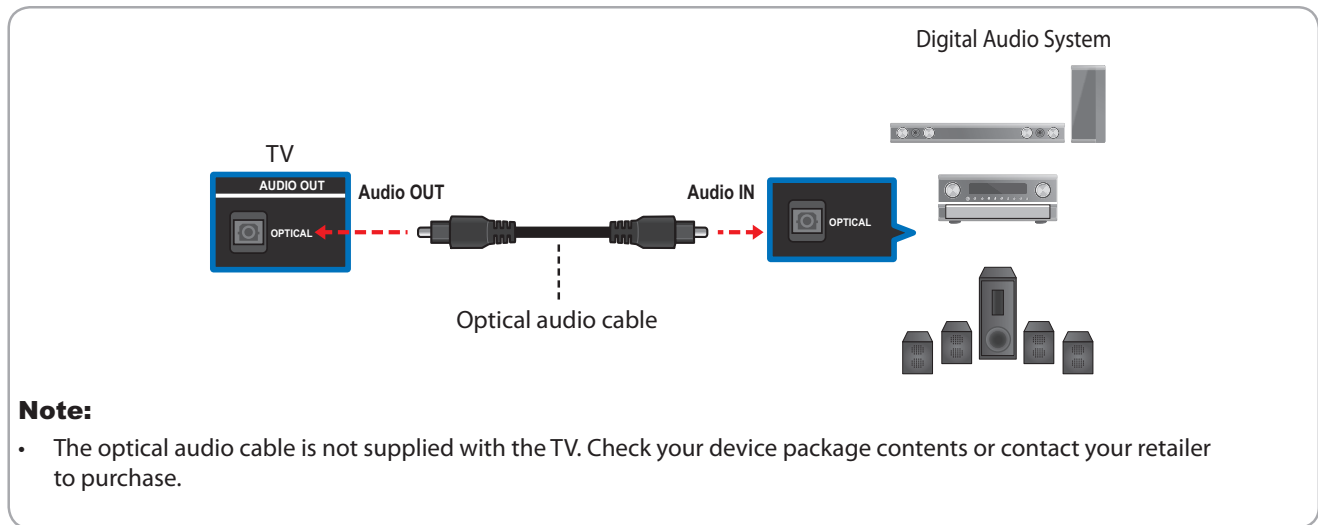


**Note:** The video cable is not supplied with the TV. Check your device package contents or contact your retailer to purchase one.

## Connecting External Speakers / Soundbar / AV Receivers

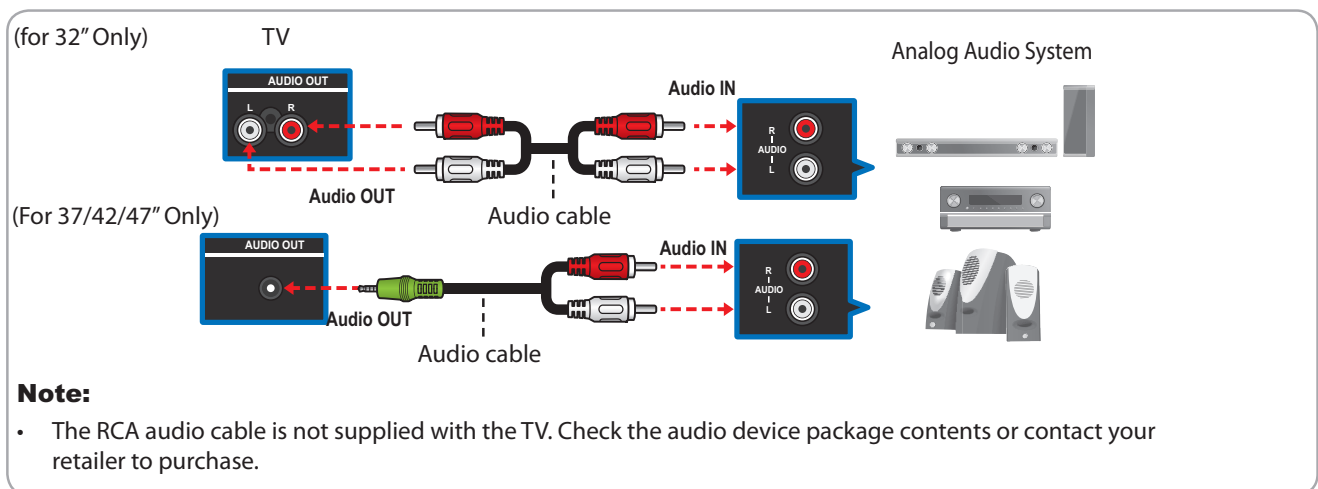
### Digital Connection

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.



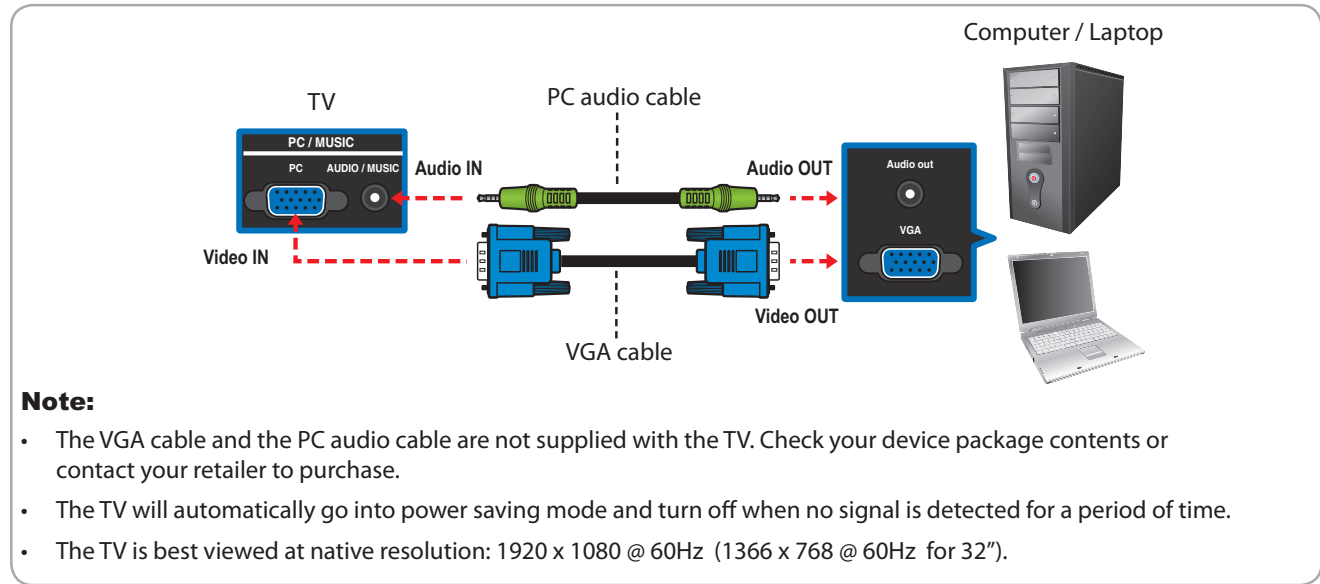
### Analog Connection

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



## Connecting Computers and Laptops

- 1 Connect one end of a VGA cable to the PC port of the TV.
- 2 Connect the other end of the VGA cable to the RGB port of the computer or laptop.
- 3 For PC audio, connect a 3.5mm audio cable to the PC audio port of the TV and audio out port of the computer or laptop.



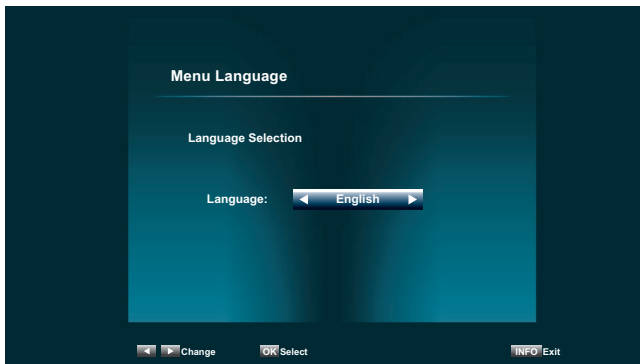
# Basic Operations

## Setup Wizard

When the TV is turned on for the first time, the Setup Wizard appears to assist you in setting up your TV.

Note: Make sure that the antenna or cable TV system is connected before proceeding.

- 1 Turn on the TV. The Setup Wizard screen appears.
- 2 Press **<or>** to select the menu language, then press **OK**.



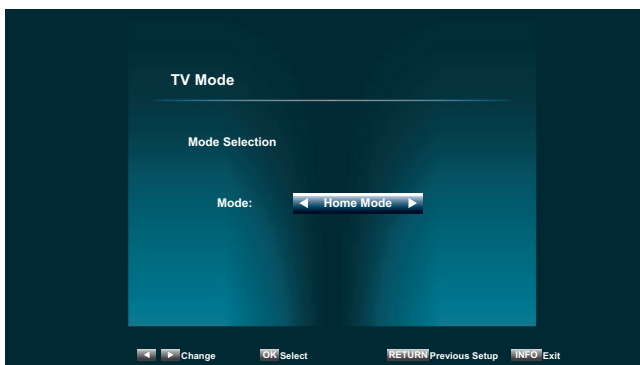
- 3 Press **<or>** to select the TV Mode, then press **OK**.

TV Mode options are:

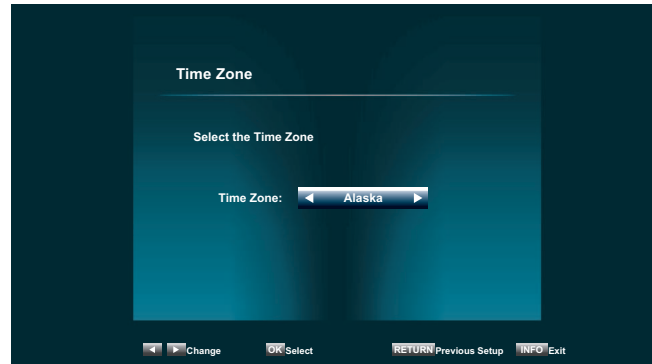
- **Home Mode:** Select this mode for in home use.
- **Retail Mode:** Select this mode for in store demo.

### Note:

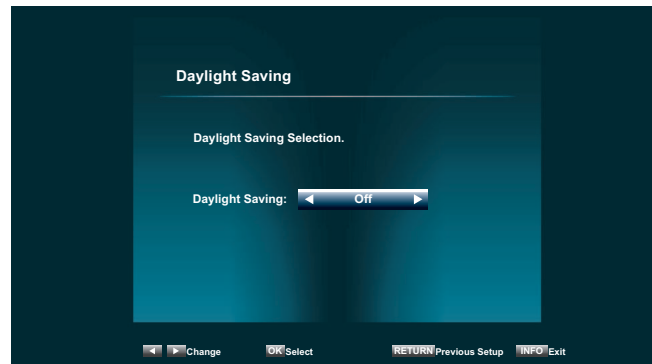
- Retail mode is for retailers only.
- To exit Retail mode, see page 21.



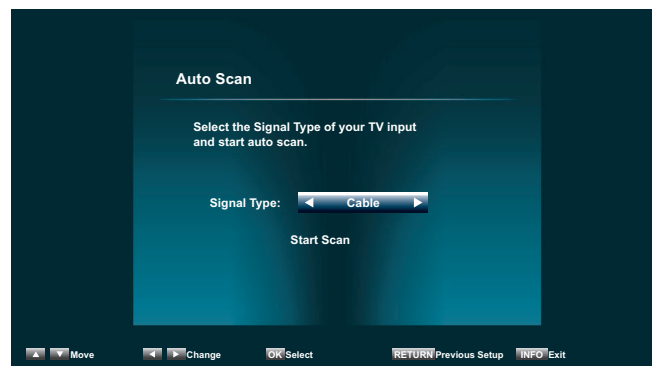
- 4 Press **<or>** to select the Time Zone, then press **OK**.



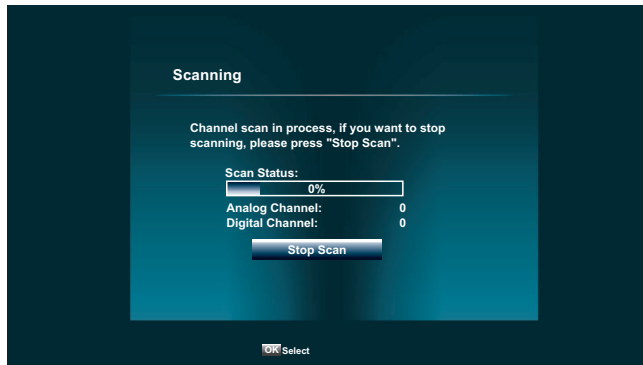
- 5 Press **<or>** to set Daylight Saving Time "ON" or "OFF", then press **OK**.



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



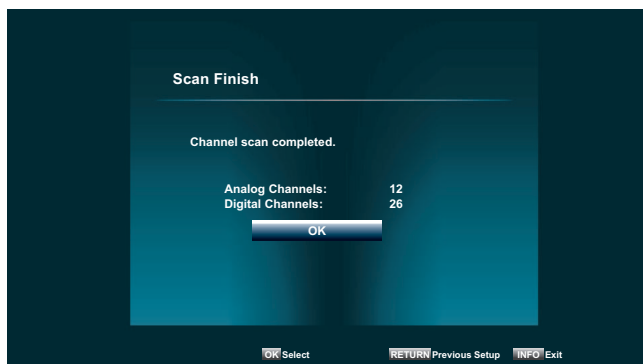
- 7 Press **OK** to start channel scan.



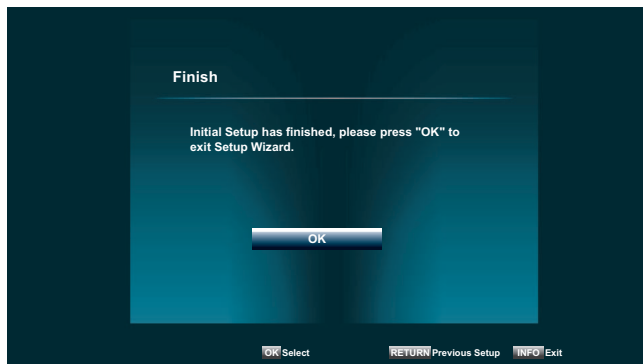
**Note:**

- 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.

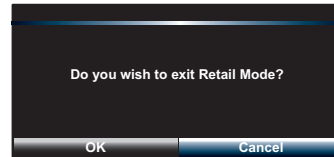


**9** Press **OK** to complete setup.



## 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 with network signal 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 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.

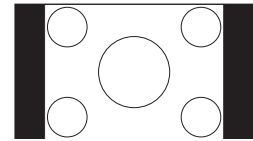
Press **INFO** again to hide the Info screen.

## 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**.

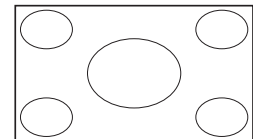
### Normal

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.



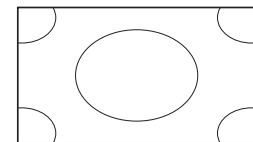
### Wide

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.



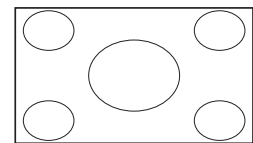
### Zoom

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



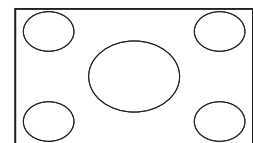
### Panoramic

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 in 16:9 contents.

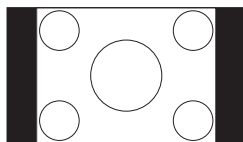


## Basic Operations

With VGA input, only 2 modes are available:  
Normal and Stretch.

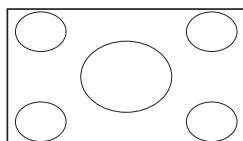
### Normal

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 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

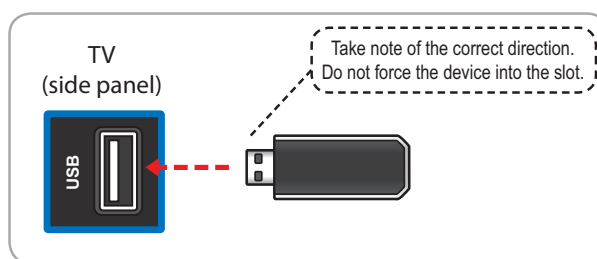
Depending on your TV model, the TV allows you to play slide shows from a USB memory stick.

### Note:

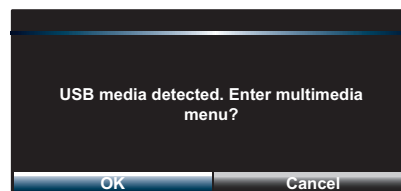
- Only support slide shows of image file.

## Playing Multimedia Files

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



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



- 3 Press **OK**.
- 4 Press **▼** or **▲** to select the USB source, then press **OK**.

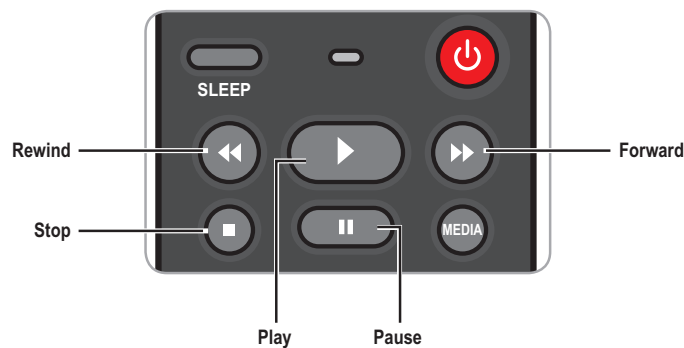
- 5** The displayed screen varies depending on the media type you selected. Press **▼**, **▲**, **◀** or **▶** to select a file or function, then press **OK**.

## 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.

- 6** During media playback, press the playback controls on the remote control to perform its function.



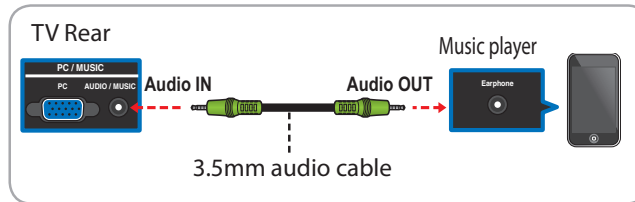
- 7** To exit USB mode, press **MEDIA**. Or, to go back to a previous screen, press **RETURN**.

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

## 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/PC Audio IN port of the 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.

## Audio Only Mode

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

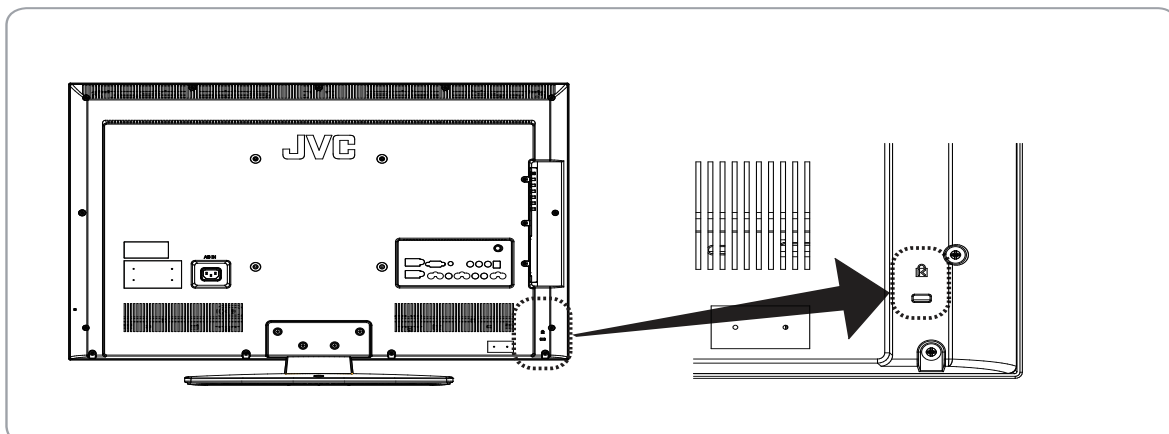
- 1 Press **AUDIO** to activate Audio Only mode. A message appears on the screen, then after a few seconds, the TV display turns off.
- 2 Press any button to turn on the display again and exit Audio Only mode.

## Kensington Lock

### Security Deterrent Kensington Lock

The JVC 3002 Series 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:



# 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.

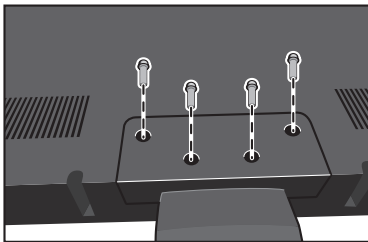


For product protection and safety reasons, JVC strongly recommends contacting a technician or professional for assistance installing the wall mount and setting up the TV. If you decide to install the wall mount and TV without the assistance of a technician or professional, JVC will not be responsible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

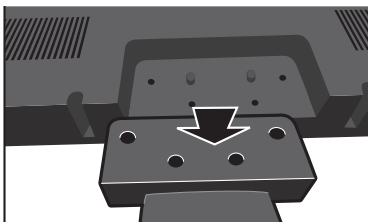


Do not install your wall mount while your TV is turned on. It can result in personal injury due to electric shock

- 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 Using a philips-head screwdriver, remove the screws on the neck of the TV.



- 4 Remove the neck and stand from the TV.



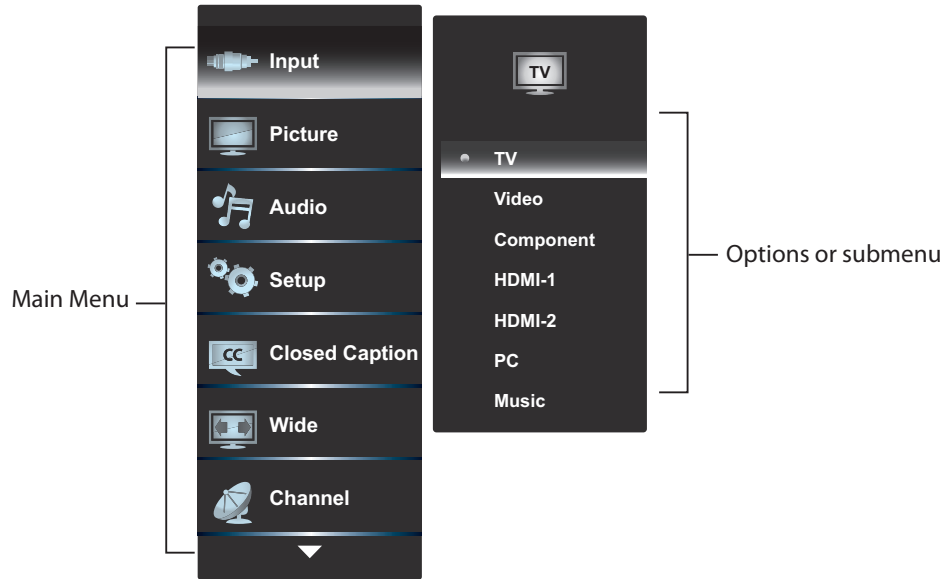
- 5 Attach your wall mount and TV to the wall, carefully following the instructions provided with the wall mount.

## Wall Mount Specifications (VESA)

Product Model #	VESA hole pattern (mm)	Standard Screw	Screw Length (mm)
JLC32BC3002 (32")	200 x 200	M4	10mm
JLC37BC3002 (37")	200 x 200	M4	10mm
JLC42BC3002 (42")	200 x 200	M6	16mm
JLC47BC3002 (47")	400 x 200	M6	16mm

# Adjusting the Menu Settings

## Quick Menu Operation

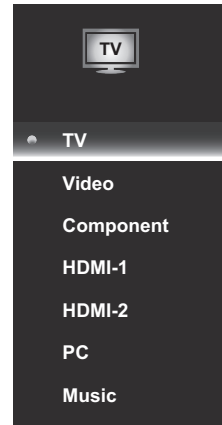


	Remote Control	TV Panel
<b>1</b> Display the menu.	Press <b>MENU</b> .	Press <b>MENU</b> .
<b>2</b> Select a menu option.	<ol style="list-style-type: none"> <li>1. Press <b>▼</b> or <b>▲</b> to select a menu or option.</li> <li>2. Press <b>OK</b> or <b>▶</b> to enter a menu or confirm an option.</li>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

## 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 / 2:** To use devices connected via HDMI connection. (HDMI 2 for JLC32BC3002 only)
- **HDMI Side** (For JLC37/42/47BC3002 only): To use devices connected via HDMI connection.
- **PC:** To use the TV as a monitor when a computer or laptop is connected via the PC IN jack.
- **Music:** To play music from a music player connected via music port.



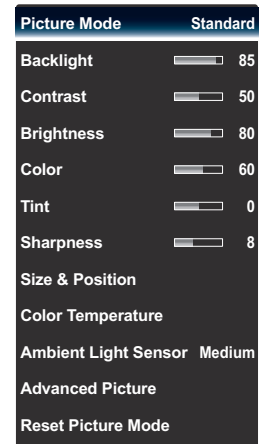
## Picture Menu

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

Auto Adjust	Automatically adjust the picture size and 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

Crystal Color™	Crystal Color™ 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 from video players connected via HDMI.

Crystal Color™	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

### 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 25.

### Digital Audio Out

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

### Analog Audio Out

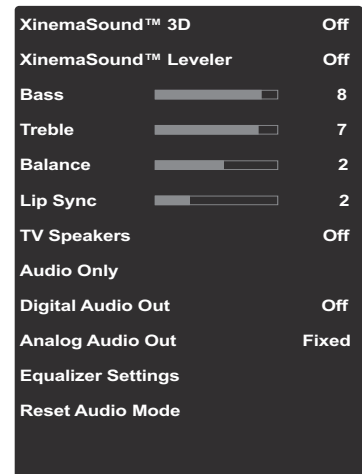
Select the type of analog audio output. (Fixed / Variable)

### 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**.

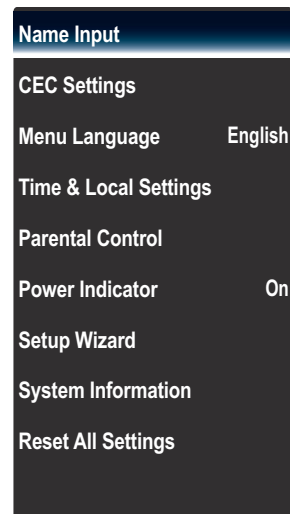
To select a custom label:

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**.

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



ENGLISH



### 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.

### 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 children from viewing or hearing violent scenes 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.



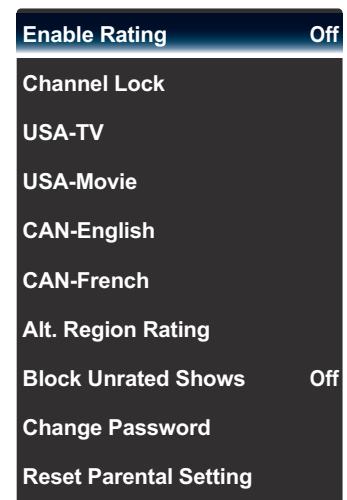
**Note:** The default password is "0000".

- 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.

### Power Indicator

Enable or disable the power indicator on the front of the TV when the TV is turned on or off.

### 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.

## Closed Caption

Closed Caption decodes and displays closed caption data of television programs as subtitle. This feature displays text on the screen for hearing impaired viewers 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.

# Adjusting the Menu Settings

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## Channel Menu

### Select Antenna / Cable

Select Antenna or Cable depending on which you have attached 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

The TV is equipped with a channel memory. When you run auto scan, the TV scans for channels with network signals and memorizes them into memory. It may take 15 to 30 minutes to memorize digital cable channels depending on the reception condition.

- 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 the new channels into the memory.

- 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

Select a sleep timer option where the TV automatically turns off after the preset time.  
See page 22.

# Appendix

## Supported Resolution

Model Name	JLC32BC3002	JLC37BC3002	JLC42BC3002	JLC47BC3002
Supported PC Timing (VGA & HDMI)	720 x 400 @ 70Hz	720 x 400 @ 70Hz	720 x 400 @ 70Hz	720 x 400 @ 70Hz
	640 x 480 @ 60, 75Hz	640 x 480 @ 60, 75Hz	640 x 480 @ 60, 75Hz	640 x 480 @ 60, 75Hz
	800 x 600 @ 60, 75Hz	800 x 600 @ 60, 75Hz	800 x 600 @ 60, 75Hz	800 x 600 @ 60, 75Hz
	1024 x 768 @ 60, 75Hz	1024 x 768 @ 60, 75Hz	1024 x 768 @ 60, 75Hz	1024 x 768 @ 60, 75Hz
	1280 x 1024 @ 75Hz	1280 x 1024 @ 75Hz	1280 x 1024 @ 75Hz	1280 x 1024 @ 75Hz
	1366 x 768 @ 60Hz	1920 x 1080 @ 60Hz	1920 x 1080 @ 60Hz	1920 x 1080 @ 60Hz
Supported Video Timing (NTSC, Composite)	480i	480i	480i	480i
Supported Video Timing (ATSC, Component, HDMI)	480i, 480p, 720p, 1080i, 1080 24p/60p	480i, 480p, 720p, 1080i, 1080 24p/60p	480i, 480p, 720p, 1080i, 1080 24p/60p	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.

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

# Specifications

Specifications are subject to change without prior notice.

<b>Model No.</b>	<b>JLC32BC3002</b> 32" Black Crystal 3002 Series LCD TV	<b>JLC37BC3002</b> 37" Black Crystal 3002 Series LCD TV	
Panel Type	LCD (Liquid Crystal Display) Panel	LCD (Liquid Crystal Display) Panel	
Size	32" Class	37" Class	
Resolution / Aspect	HD 1366 x 768 / 16:9	FHD 1920 x 1080 / 16:9	
Refresh Rate	60Hz	60Hz	
Audio Output Power	20W (10W x 2)	20W (10W x 2)	
Input	Antenna (NTSC/ATSC/ClearQAM)		
	2 x HDMI (1 with L/R audio input) 32" only		
	1 x Component		
	1 x Composite(Shared with Component Input)		
	1 x PC		
	1 x PC Audio / Music port		
	1 x USB (JPEG)		
Output	1 x Optical Digital Audio Out		
	1 x Stereo Audio Out		
	Multimedia: Picture		
Special Features	Ambient Light Sensor		
	Dynamic Contrast		
	CrystalColor™		
	Power Saving Mode		
	Audio Only Mode		
	Input Naming Capability		
	Parental Control		
Closed Caption			
<b>Power</b>			
Power Requirement	120 VAC @ 50/60Hz		
Power Consumption	≤ 51.3 W	≤ 65.2 W	
<b>Dimension &amp; Weight</b>			
Dimensions (W x H x D)	With Stand	31.1" x 21.9" x 7.9"	35.8" x 24.8" x 8.6"
	Without Stand	31.1" x 19.7" x 3.1"	35.8" x 22.9" x 3.3"
Net Weight	With Stand	9.0 ± 1.0 kg	11.1 ± 1.0 kg
	Without Stand	8.5 ± 1.0 kg	10.6 ± 1.0 kg
Compliance / Certifications	EnergyStar 5.3, CSA-US, FCC Class B, HDMI v1.3		



<b>Model No.</b>	<b>JLC42BC3002</b> 42" Black Crystal 3002 Series LCD TV	<b>JLC47BC3002</b> 47" Black Crystal 3002 Series LCD TV	
Panel Type	LCD (Liquid Crystal Display) Panel	LCD (Liquid Crystal Display) Panel	
Size	42" Class	47" Class	
Resolution / Aspect	FHD 1920 x 1080 / 16:9	FHD 1920 x 1080 / 16:9	
Refresh Rate	60Hz	60Hz	
Audio Output Power	20W (10W x 2)	20W (10W x 2)	
Input	Antenna (NTSC/ATSC/ClearQAM)		
	2 x HDMI		
	1 x Component		
	1 x Composite(Shared with Component Input)		
	1 x PC		
	1 x PC Audio / Music port		
	1 x USB (JPEG)		
Output	1 x Optical Digital Audio Out		
	1 x Stereo Audio Out		
	Multimedia: Picture		
Special Features	Ambient Light Sensor		
	Dynamic Contrast		
	Power Saving Mode		
	Audio Only Mode		
	Input Naming Capability		
	Parental Control		
	Closed Caption		
<b>Power</b>			
Power Requirement	120 VAC @ 50/60Hz		
Power Consumption	≤ 81.4 W	≤ 97.1 W	
<b>Dimension &amp; Weight</b>			
Dimensions (W x H x D)	With Stand	40.2" x 27.5" x 9.9"	44.6" x 29.9" x 9.9"
	Without Stand	40.2" x 25.6" x 3.3"	44.6" x 28.1" x 3.3"
Net Weight	With Stand	14.6 ± 1.0 kg	20.2 ± 1.0 kg
	Without Stand	14 ± 1.0 kg	18.0 ± 1.0 kg
Compliance / Certifications	EnergyStar 5.3, CSA-US, FCC Class B, HDMI v1.4		

# Limited Warranty

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## 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/](http://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.

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Last Name:	_____	Model Number:	_____
Address	_____	Serial Number:	_____
Apt. #	_____	Purchase Price:	_____
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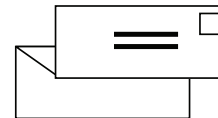
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