JVC

USER MANUAL

Emerald Series LED HDTV

EM40NF5 40" Class
EM43NF5 43" Class
EM50NF5 50" Class
EM55NF5 55" Class

EM40RF5 40" Class
EM43RF5 43" Class
EM50RF5 50" Class
EM55RF5 55" Class

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

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

Rev. 1/15

WE ARE HERE TO HELP!

STOP

FOR HELP WITH TELEVISION SUPPORT:
1-855-868-1928
WE CAN HELP YOU WITH:
DAMAGED PACKAGE • MISSING PARTS • TECHNICAL SUPPORT

JVC

Contents

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

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

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

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

Serial Number: _____

Model Number: _____

MHL, Mobile High-Definition Link and the MHL Logo are trademarks or registered trademarks of the MHL, LLC.

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.

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

Manufactured under license from Dolby Laboratories. Dolby and the double-D symbol are trademarks of Dolby Laboratories.

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Copyrights © 2015 AmTRAN Video Corporation. ALL RIGHTS RESERVED.
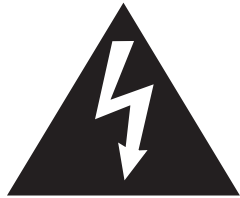
CAUTION
RISK OF ELECTRIC SHOCK
DO NOT OPEN

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

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

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

WARNING: TO PREVENT FIRE OR SHOCK HAZARD, DO NOT EXPOSE THIS APPLIANCE TO RAIN OR MOISTURE. TO PREVENT THE SPREAD OF FIRE, KEEP CANDLES OR OPEN FLAMES AWAY FROM THIS PRODUCT AT TIMES.

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

WARNING: This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) this device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation. Note: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one of the following measures: - Reorient or relocate the receiving antenna. - Increase the separation between the equipment and receiver. - Connect the equipment into an outlet on a circuit different from that to which the receiver is connected. - Consult the dealer or an experienced radio/TV technician for help. FCC Caution: To assure continued compliance, (example – use only shielded interface cables when connecting to computer or peripheral devices). Any changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate this equipment.

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

CAUTION: Changes or modifications not expressly approved by the party responsible for compliance with the FCC Rules could void the user's authority to operate this equipment.

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

4

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.

5

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 ingrained 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 website.
- Special Formats that do not use the entire screen. For example, viewing letterbox style (16:9) media on a normal (4:3) display (black bars at top and bottom of screen); or viewing normal style (4:3) media on a widescreen (16:9) display (black bars on left and right sides of screen).

The following symptoms are not signs of malfunction but technical limitation.

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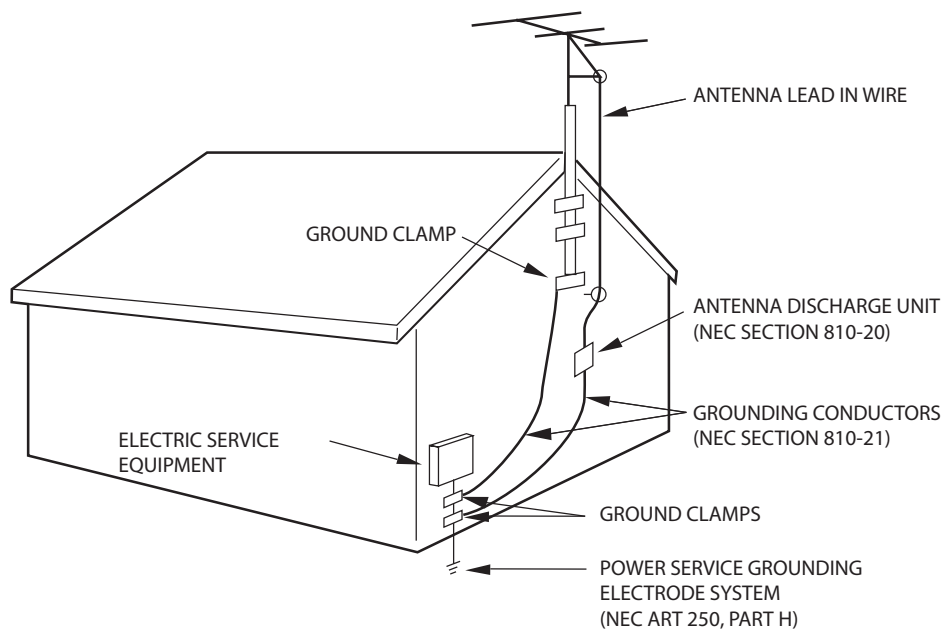
Important Safety Instructions

Television Antenna Connection Protection

External Television Antenna Grounding

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

Article 810 of the National Electrical Code, ANSI/NFPSA 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.

ANTENNA LEAD IN WIRE

GROUND CLAMP

ANTENNA DISCHARGE UNIT
(NEC SECTION 810-20)

GROUNDING CONDUCTORS
(NEC SECTION 810-21)

ELECTRIC SERVICE
EQUIPMENT

GROUND CLAMPS

POWER SERVICE GROUNDING
ELECTRODE SYSTEM
(NEC ART 250, PART H)

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 mount the antenna near overhead light or power circuits, or where it could fall into such power lines or circuits.

8

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

Attaching the Stand

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

Unpacking the TV

1 Remove TV accessories and protective foam.

2 Remove TV from the box and place it on a flat and clean surface with TV screen facing down.

3 Attach the stand to TV using the provided screw.

EM40NF5
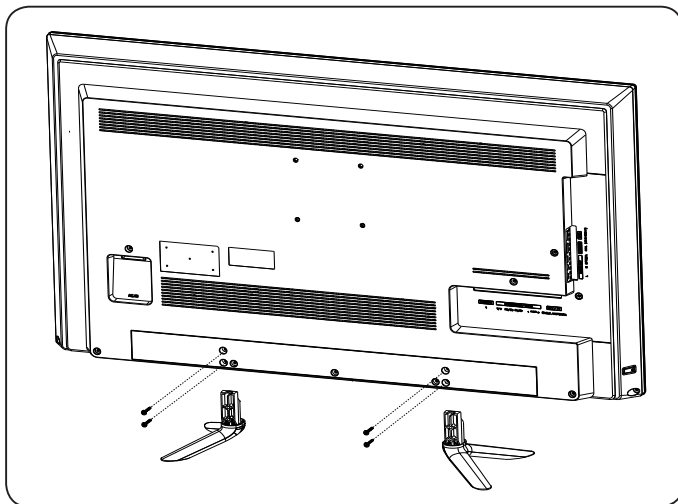**EM40RF5**
EM43NF5
EM43RF5
EM50NF5
EM50RF5
EM55NF5
EM55RF5

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.

10

Package Contents

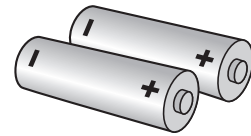Check if the following items are included in your package.

LED TV

Remote Control

Batteries

Quick Start Guide

Power Cord

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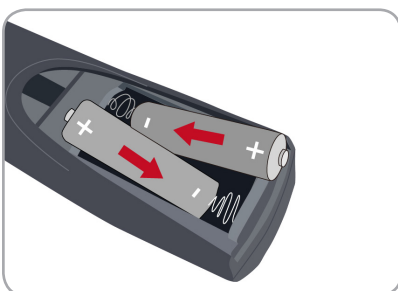

Remote Control Batteries

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

3 Close the battery cover.

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

Battery Precautions:

Be sure to follow the correct polarity. Incorrect installation may cause battery leakage or damage the remote control.

Always replace batteries in pair. Do not combine a used battery with a new one.

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

If the remote control is not to be used for a long period of time, remove the batteries to prevent battery leakage.
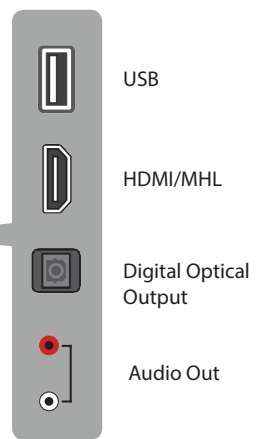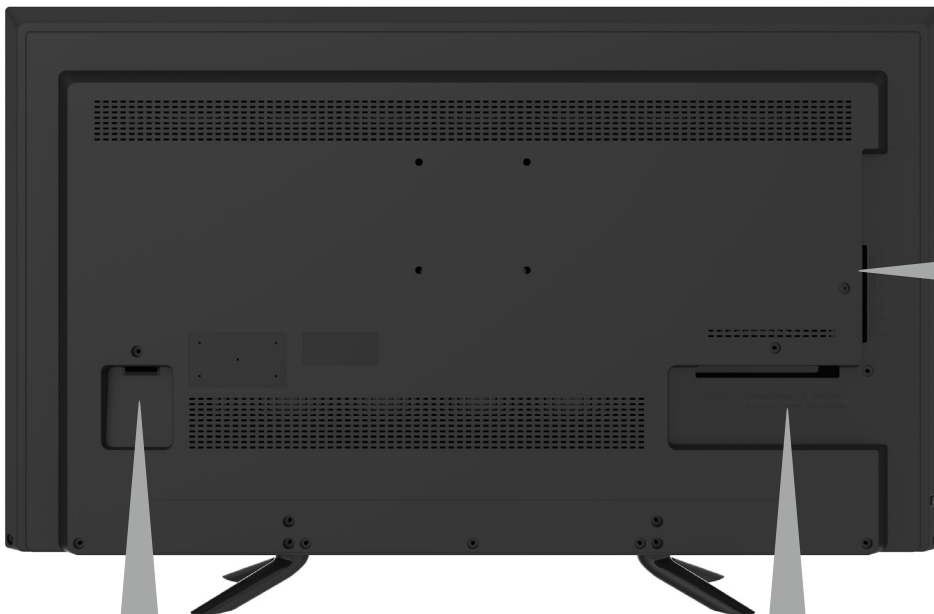
11

Parts and Functions

EM40NF5
EM40RF5

Front View

Power indicator
Remote control IR receiver

EM40NF5
EM40RF5

Rear View

USB

HDMI/MHL

Digital Optical
Output

Audio Out

Power Button

AC Power

HDMI-1/
ARC

Component/
Video Input

Audio Input/
Music Port

Antenna
Input

12

Parts and Functions

Front View

EM43NF5
EM43RF5

Power indicator
Remote control IR receiver

Rear View

EM43NF5
EM43RF5

USB

HDMI/MHL

Digital Optical
Output

Audio Out

Power and
Function Buttons

AC Power

HDMI-1/
ARC

HDMI-2

Component/
Video Input

Audio Input/
Music Port

Antenna
Input

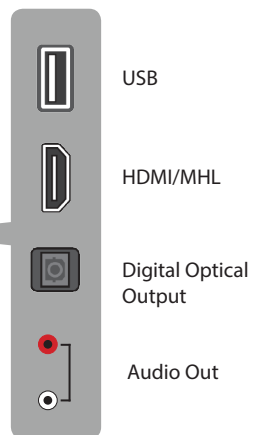# Parts and Functions

EM50NF5
EM50RF5

Front View

Power indicator
Remote control IR receiver

EM50NF5
EM50RF5

Rear View
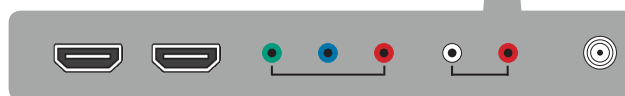
USB

HDMI/MHL

Digital Optical
Output

Audio Out

Power and
Function Buttons

AC Power

HDMI-1/
ARC

HDMI-1

HDMI-2

Component/
Video Input

Audio Input/
Music Port

Antenna
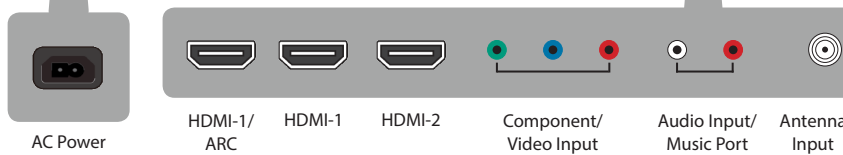Input

14
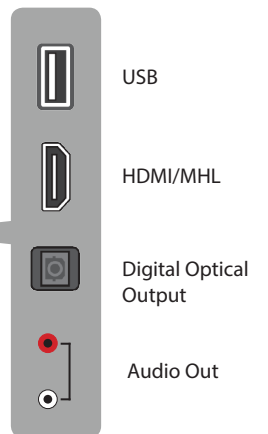
Parts and Functions

EM55NF5
EM55RF5

Front View

Power indicator
Remote control IR receiver

EM55NF5
EM55RF5

Rear View
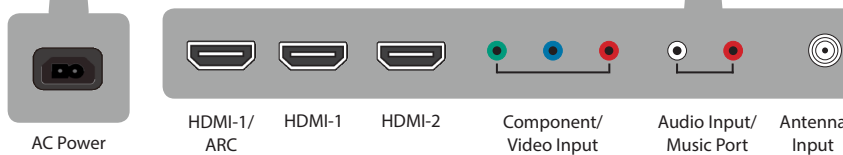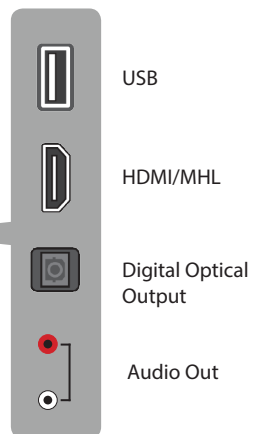
USB

HDMI/MHL

Digital Optical
Output

Audio Out

Power and
Function Buttons

AC Power

HDMI-1/
ARC

HDMI-1

HDMI-2

Component/
Video Input

Audio Input/
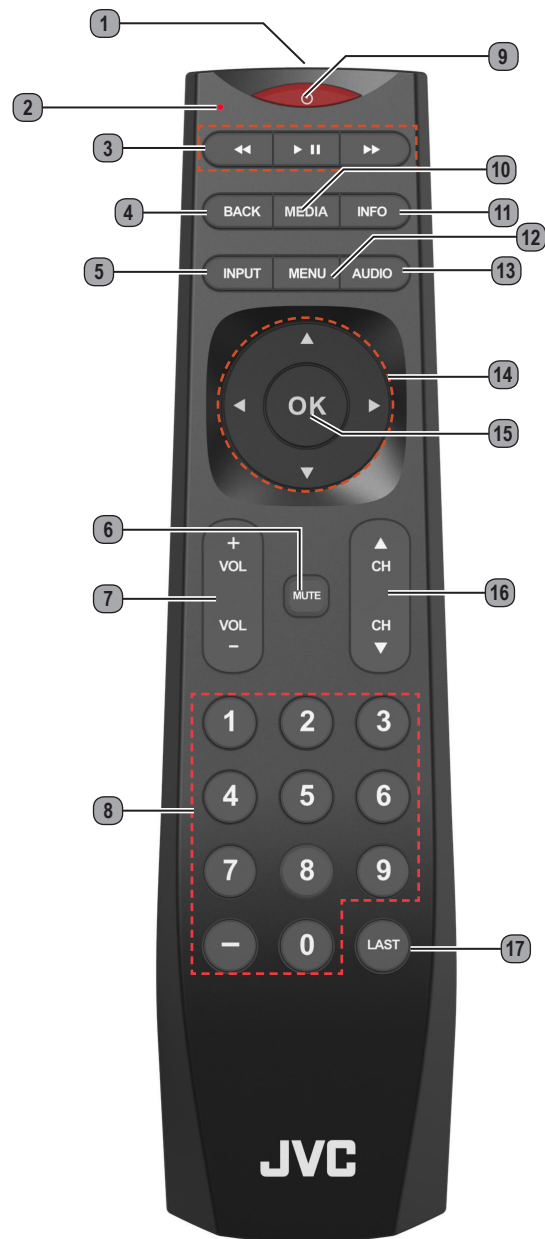Music Port

Antenna
Input

15

Remote Control (EMxxNF5 Models)

1 IR Transmitter: Sends remote control signal to the TV.

2 Remote Control LED: Lights red when a button is pressed.

3 Playback controls: The buttons are used for Photo, Music, Video, HDMI CEC function.

4 BACK: Go back to previous selection.

5 INPUT button: Changes the input source.

6 MUTE button: Turns 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 POWER button: Turns the TV on or off.

10 MEDIA button: Enters USB media mode.

11 INFO button: Displays program information (if available).

12 MENU button: Displays the MENU screen.

13 AUDIO button: Enters Audio Only mode and turns the screen off.

14 Directional buttons ∧ / ∨ / ‹ / ›: Navigates the menu, selects options, or adjusts setting values.

15 OK button: Enters a menu or confirms an option.

16 CH (Channel) buttons: Use **CH ∧** to increase the channel number or **CH ∨** to decrease the channel number.

17 LAST button: Return to previous channel.

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.

16

Remote Control (EMxxRF5 Models)

1 IR Transmitter: Sends remote control signal to the TV.

2 Remote Control LED: Lights red when a button is pressed.

3 **Playback controls: The buttons are used for Photo, Music, Video, HDMI CEC function.

4 ** ⟵ : Go back to previous selection.

5 INPUT button: Changes the input source.

6 MUTE button: Turns 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 POWER button: Turns the TV on or off.

10 **ROKU home button: Enter Roku home page.

11 **INFO* button: Enter Roku special options.

12 MENU button: Displays the MENU screen.

13 AUDIO button: Enters Audio Only mode and turns the screen off.

14 Directional buttons ⋀ / ⋁ / ⟨ / ⟩ : Navigates the menu, selects options, or adjusts setting values.

15 OK button: Enters a menu or confirms an option.

16 CH (Channel) buttons: Use **CH ⋀** to increase the channel number or **CH ⋁** to decrease the channel number.

17 ** ↩ button: Return to previous channel.

**Compatible with Roku® Streaming Stick™

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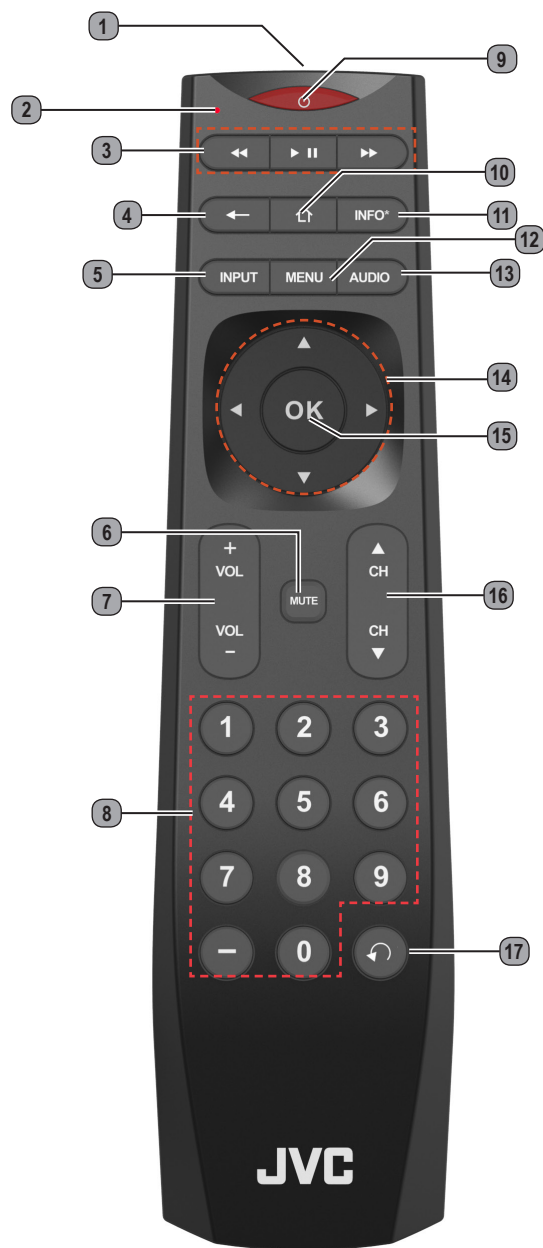
Aim the remote control transmitter to the remote control sensor on the TV.

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

17

Making Connections

Connecting Antenna / Cable

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

DTV / TV
CABLE / ANTENNA

75 ohm coaxial cable
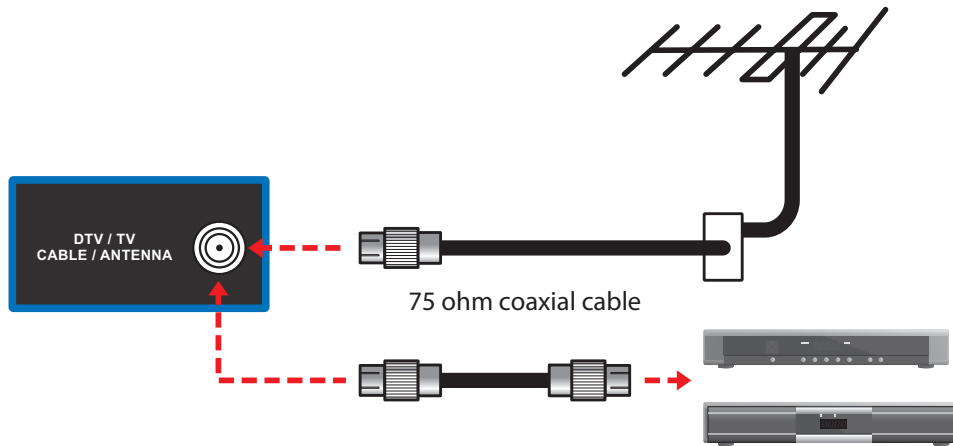
Connecting HD Devices

You can connect different devices to the TV using HDMI, Composite, or Component connections.

Check the type of connection available on your device.

Connect to HD Devices (Bluray Player, Cable or Satellite, Game Console)

HDMI

HDMI

HDMI

Component

COMPONENT/ VIDEO

Y/V   Pb/Cb   Pr/Cr   L AUDIO R

R
AUDIO
L

Pr/Cr

Pb/Cb

Y

Composite   *Please Note, the Composite video input is shared with the component.

COMPONENT/ VIDEO

Y/V   Pb/Cb   Pr/Cr   L AUDIO R

R
AUDIO
L

VIDEO

18
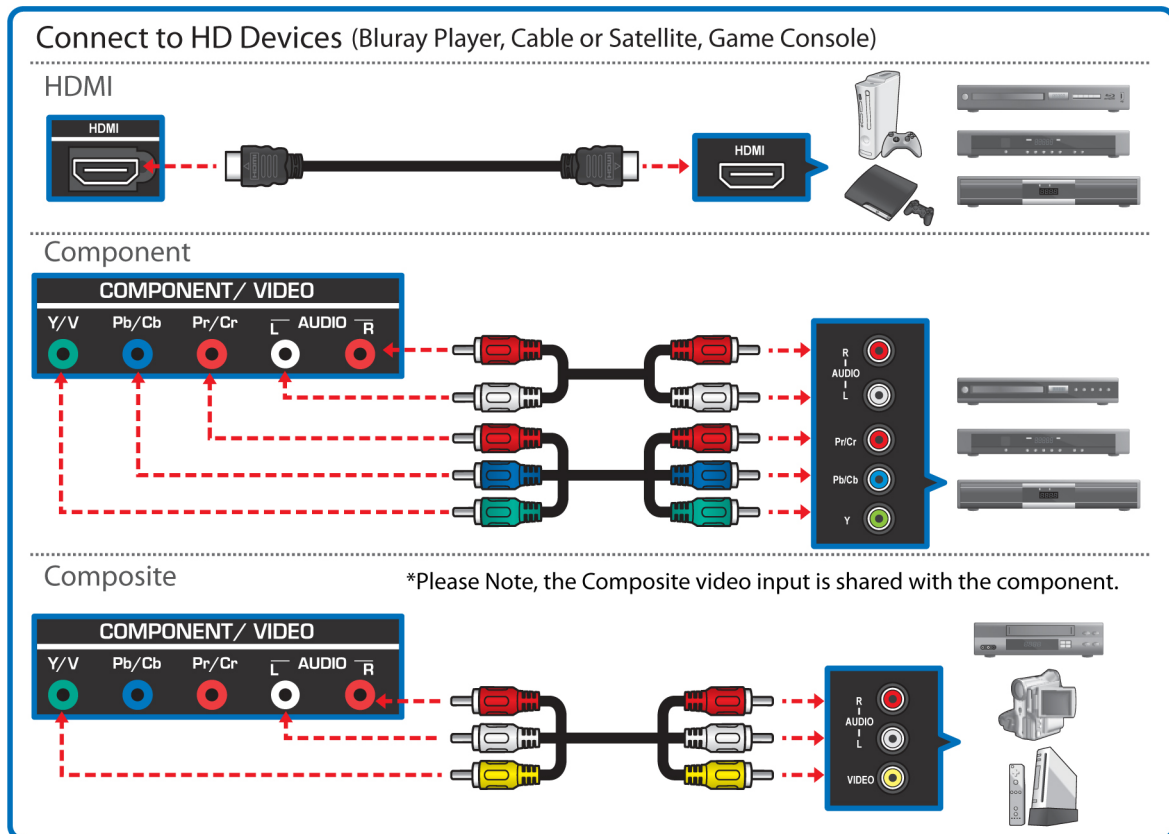
Connecting External Speakers / Soundbar / AV Receivers

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.

Note: The optical audio cable is not included with the TV.
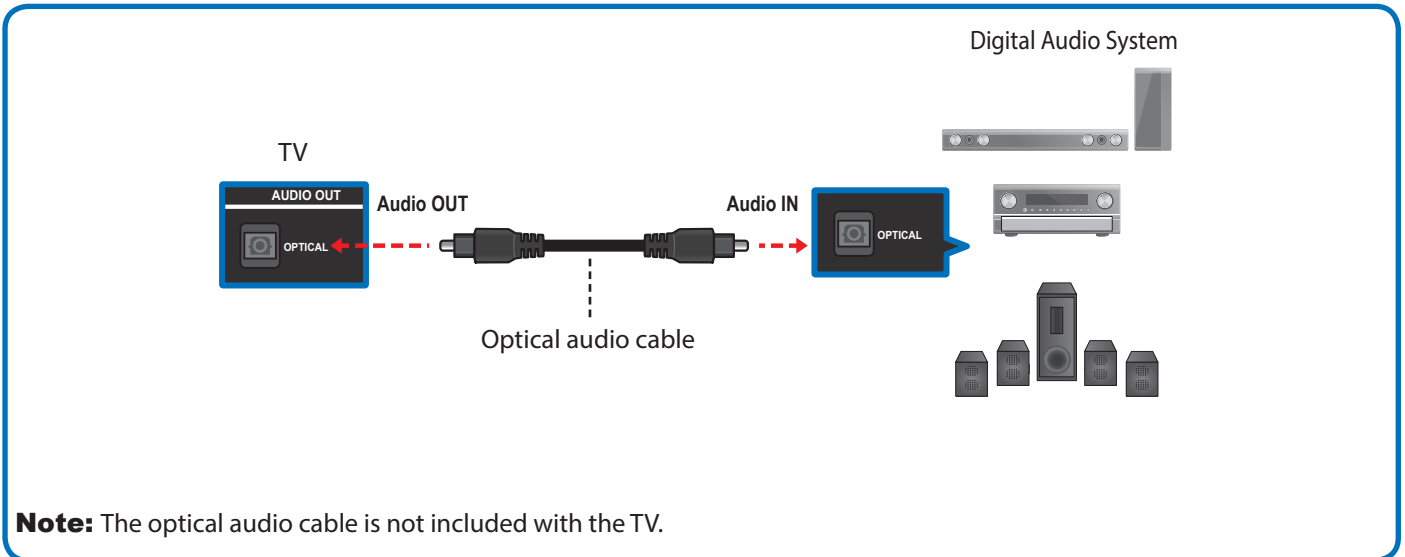
Analog Audio Connection

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

Note:

Music Port is shared with Component Audio In

Audio Cable is not included with the TV
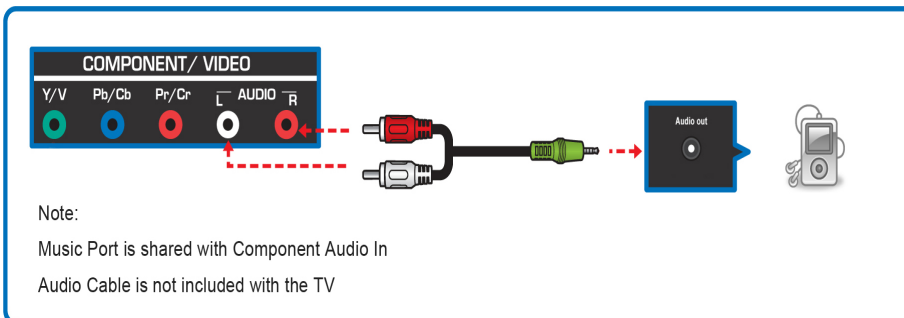
Basic Operations

Setup Wizard

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

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

1 When you turn on the TV for the first time, the Setup Wizard screen will appear.
Select the menu language, then press **OK**.

Menu Language
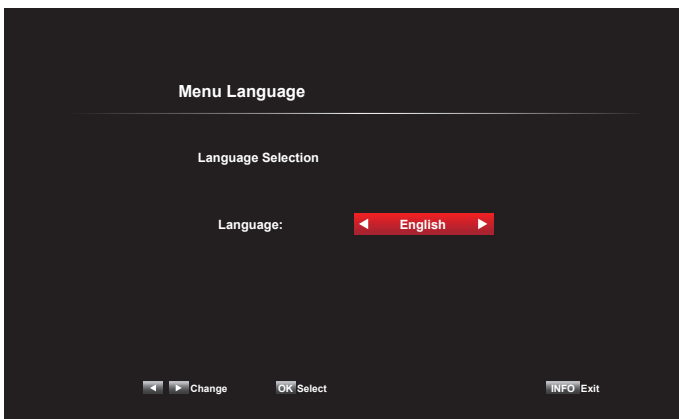
Language Selection

Language: ◄   English   ►

◄ ► Change   OK Select   INFO Exit

2 Select the TV Mode, then press **OK**.

TV Mode options:
Retail Mode: Select this mode for in store demo.
Home Mode: Select this mode for in home mode.

TV Mode

Mode Selection

Mode: ◄   Retail Mode   ►

◄ ► Change   OK Select   RETURN Previous Step   INFO Exit
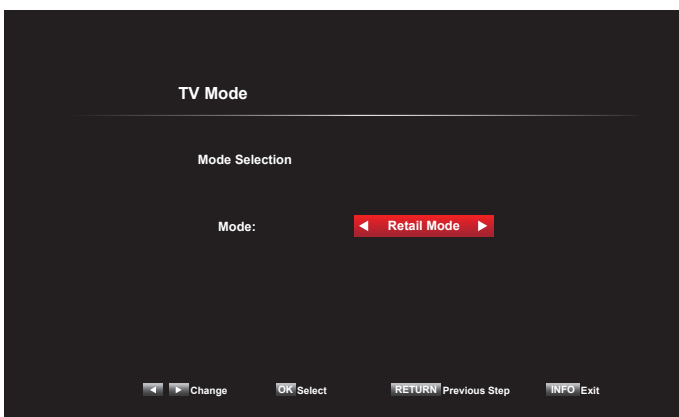
Note: Retail Mode is for retailers only.
To exit Retail Mode, see page 18.

3 Select Time Zone, then press **OK**.

Time Zone

Select the Time Zone

Time Zone: ◄   Alaska   ►

◄ ► Change   OK Select   RETURN Previous Step   INFO Exit
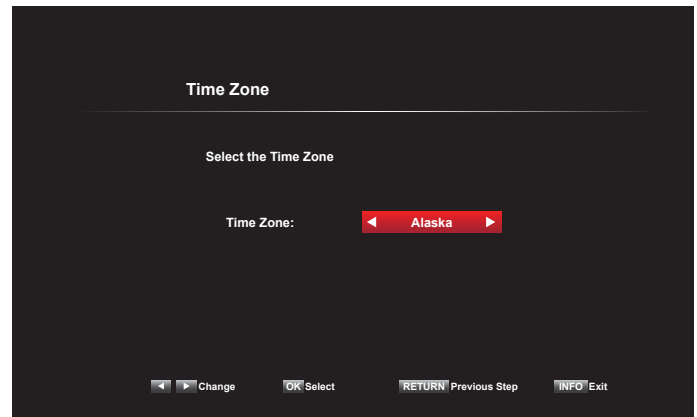
4 Set Daylight Saving Time "**ON**" or "**OFF**", then press **OK**.

Daylight Saving

Daylight Saving Selection

Daylight Saving: ◄   On   ►

◄ ► Change   OK Select   RETURN Previous Step   INFO Exit
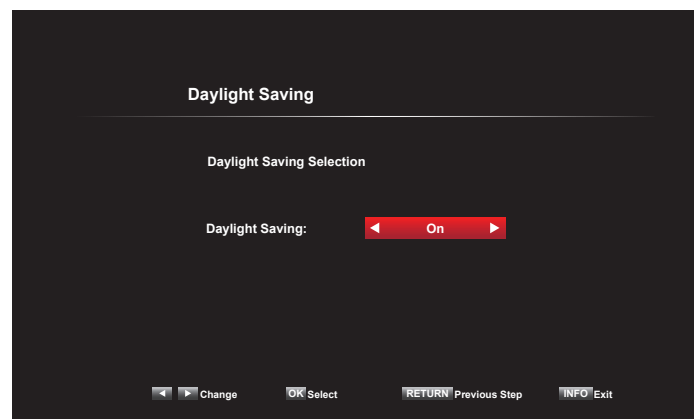
5 Select the TV service, then press **OK**.

Auto Scan

Select the Signal Type of your TV input and start auto scan.

Signal Type: ◄   Cable   ►

Start Scan

▲ ▼ Move   ◄ ► Change   OK Select   RETURN Previous Step   INFO Exit

20
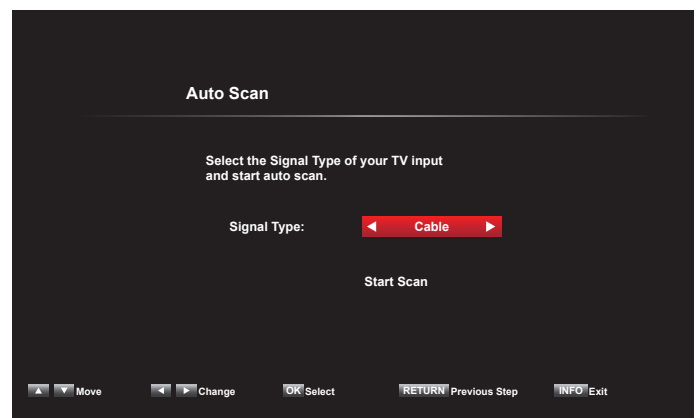
Basic Operations

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

```
                    Scanning
    _____

    Channel scan in progress, if you want to stop
    scanning, please press "Stop Scan".

       Scan Status:
       ┌──────────────────────────────┐
       │           2%                 │
       └──────────────────────────────┘
       Analog Channel:              0
       Digital Channel:             0

                 Stop Scan

              OK  Select
```
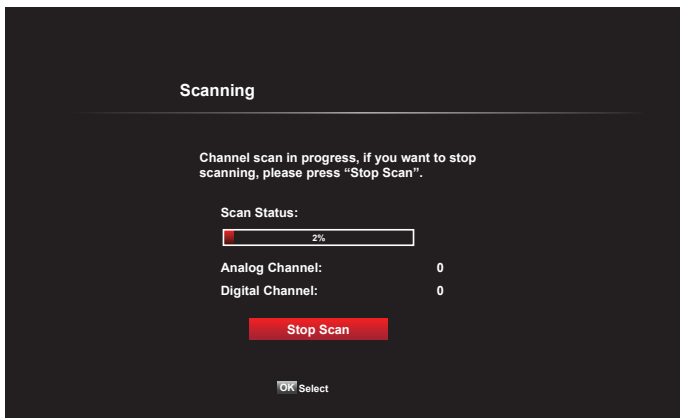
Note: Scanning may take some time to complete. Select Stop Scan to cancel the auto scan at any time.

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

```
                  Scan Finish
    _____

    Channel scan completed.


       Analog Channels:             12
       Digital Channels:            26

                    OK

    OK  Select      RETURN  Previous Step    INFO  Exit
```
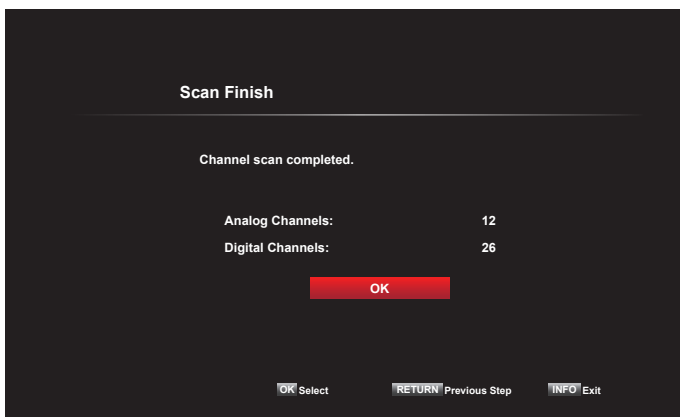
8 Press **OK** to complete setup.
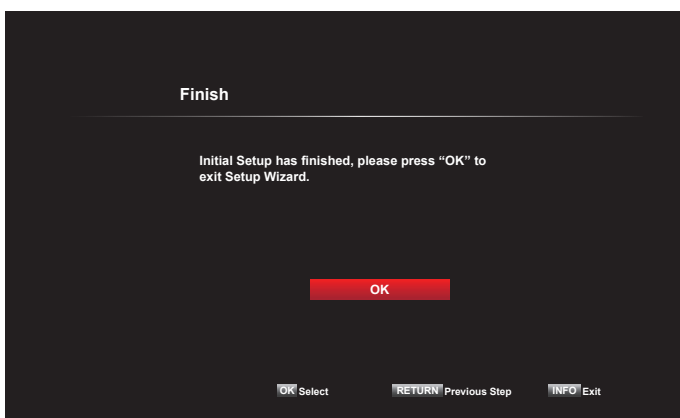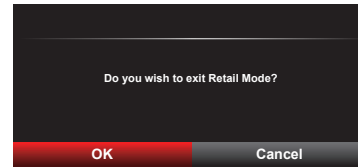
```
                    Finish
    _____

    Initial Setup has finished, please press "OK" to
    exit Setup Wizard.




                    OK

    OK  Select      RETURN  Previous Step    INFO  Exit
```

Exit Retail Mode

1 Press **BACK OR ⟵**.

2 Select **OK** then press **OK** to confirm.

```
    _____

          Do you wish to exit Retail Mode?


          OK                     Cancel
```

Basic TV Operation

One button operation (only for EM40NF5 & EM40RF5)

The TV power button also serves as multi-function button for input select, TV channel and volume control.

- Press the button to show Quick Control Menu and switch between options
- Press and hold the button to select highlighted option
- To power off TV, press and hold the button while Quick Control Menu is not on screen

```
                   ┌────┐
                   │ TV │
                   └────┘

        ▶ TV
        _____

          Video

          component

          HDMI-1

          HDMI / MHL

          Music

          Channel

          Volume                    8
```
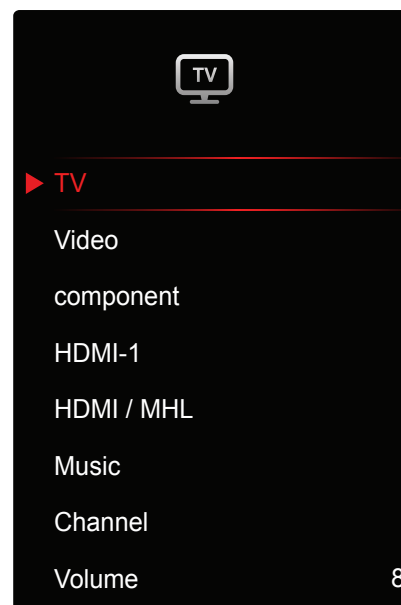
Basic Operations

Changing Channel

Press the number buttons to directly select channels.

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

To Browse Channel

Press the Channel ⌃ / ⌄ buttons on the remote control.

Press to scroll through the channels manually.

To Select Analog Channels

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

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 **OK**.

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 **OK** to display the Channel List screen.

2 Press ⌃ or ⌄ to select a channel number, then press **OK**.

3 Press **BACK OR** ⟵ to close the Channel List

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 **MENU** and select sleep to display the sleep screen.

2 Press ⌃ or ⌄ to scroll through the options, then press **OK**.

To cancel sleep, set the timer 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 **Menu** to display the Wide menu.

2 Go to **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.
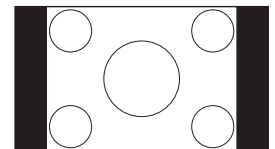
Wide

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.
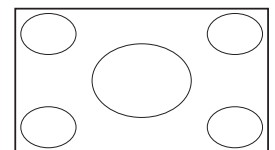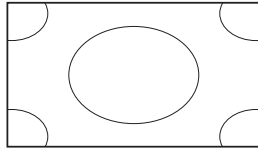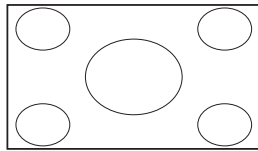
Panoramic

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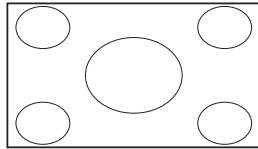
Note: Panoramic mode is only available on 4:3 contents. Stretch is only available on 16:9 contents.

Selecting Input Source

The TV provides various ways to select the input source:

On the Remote Control

Press **INPUT** repeatedly to scroll through the input source options, then press **OK** to select the input.

Picture Mode

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

Note: Due to the wide variety of picture file formats some formats may not be supported.

Playing Picture Files

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

TV
(side panel)

Take note of the correct direction. Do not force the device into the slot.

USB
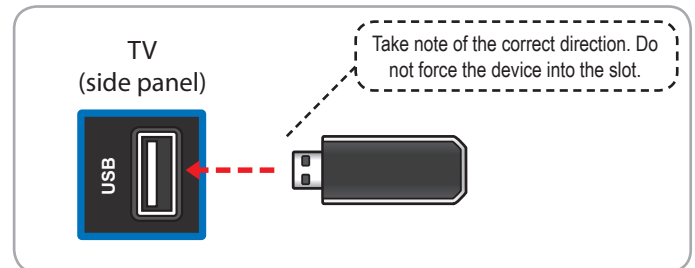
2 A message box will appear on the screen. Press ❮ or ❯ to select **OK**.

USB media detected. Enter multimedia menu?

YES	NO
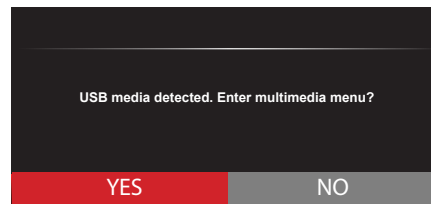
3 Press **OK** to select USB.

Basic Operations

4 The displayed screen varies depending on the media type you selected. Press ⋀, ⋁, ❮ or ❯ to select a file or function, then press **OK**.

Picture Viewer: Photo

---

1 Start Slideshow button: Play slide show.

2 Sort button: Change sorting order. The label on this button varies depending on the current sorting order. (Name A-Z, Name Z-A, Newest First, Oldest First)

3 View button: Change view mode. The button label varies depending on the current view. (Folders, Thumbnails)

4 Setting button: Change slide show settings.

Audio Only Mode

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

1 Press **AUDIO** to activate Audio Only mode. A message appears on the screen, then after a few seconds, the TV display turns off.

2 Press any button to turn on the display again and exit Audio Only mode.

Wall Mount

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

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

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

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

1 Disconnect all cables connected to the TV.

2 Carefully place the TV on a flat and clean surface with screen facing down. It is recommended to place the TV cover or protection sheet between the TV and flat surface.

3 Remove the screw attaching the stand and TV.

4 Remove and store the stand for future use.

Wall Mount

Product Model #	VESA hole pattern (mm)	Standard Screw
EM40NF5/EM40RF5 (40")	100 x 100	M4
EM43NF5/EM43RF5 (43")	200 x 200	M6
EM50NF5/EM50RF5 (50")	200 x 200	M6
EM55NF5/EM55RF5 (55")	400 x 400	M6

Note: The mounting should be strong enough to bear the weight of the display. The wall mounting bracket should have UL or related approval.

Adjusting the Menu Settings

Menu Operation

| Main Menu |
| Input |
| Picture |
| Audio |
| Setup |
| Closed Caption |
| Wide |
| Channel |
| Sleep Timer |

Options or submenu
- ► TV
- Video
- component
- HDMI-1
- HDMI / MHL
- Music
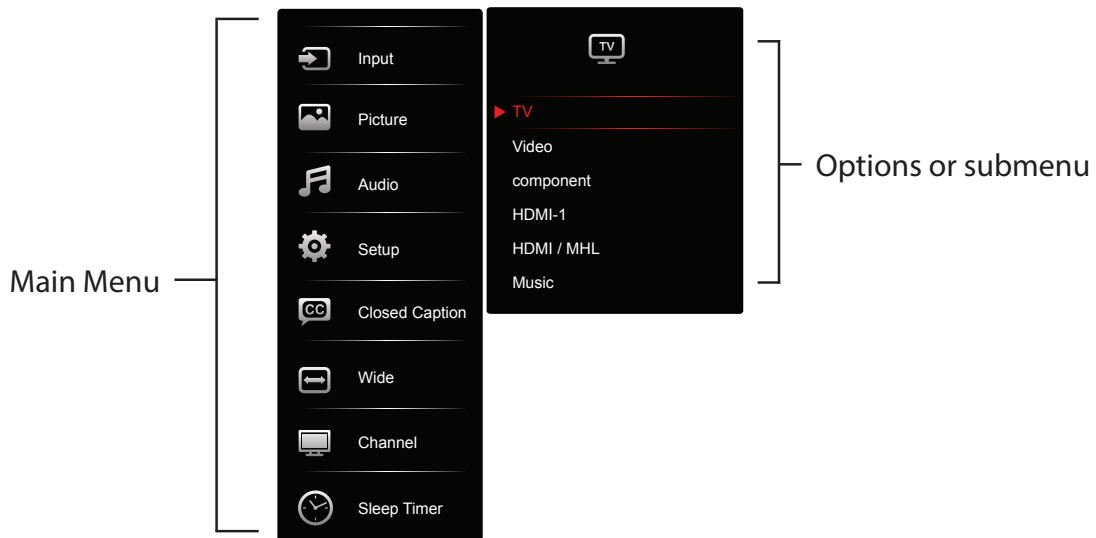
	Remote Control
1 Display the menu.	Press **MENU**.
2 Select a menu option.	1. Press ﹀ or ︿ to select a menu or option. 2. Press **OK** or › to enter a menu or confirm an option.
3 Adjust or select the setting.	1. Press ﹀ or ︿ to select an option. Or, press ‹ or › to adjust a setting, such as Brightness. 2. Press **OK** to apply the settings.
4 Exit the menu.	To exit the menu, press **BACK OR** ⟵. Or, to return to a previous screen one at a time, press **MENU** or ‹.

Input Menu

Select the input source signal.

TV
To watch analog or digital TV channels.

Video
To use VCRs, camcorders, or game consoles connected via composite connection.

Component
To use VCRs, camcorders, or game consoles connected via component connection.

HDMI-1
To connect HD devices via HDMI Connection.

HDMI/MHL
To connect MHL devices via HDMI/MHL Connection.

Music
To play music from a music player connected via music port.
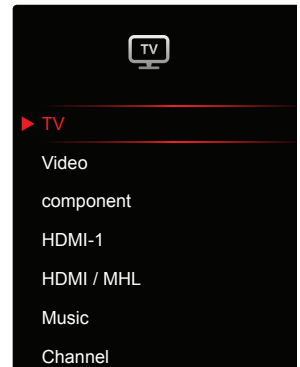
Picture Menu

Select the picture mode.

Picture

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

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

Brightness
Adjusts the brightness setting. (0 ~100)

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

27
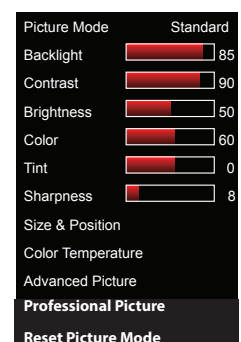
Adjusting the Menu Settings

Tint
Adjusts the sharpness of the edges of elements in the picture.

Sharpness
Selects WIDE to change TV viewing aspect ratio (Normal, Wide, Zoom and Stretch).

Size & Position

Horiz. Position/Vertical Position	Adjusts the horizontal/vertical position of the picture.
Horiz. Size/Vertical Size	Adjusts the horizontal/vertical side of the picture.

Color Temperature

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

Advanced Picture

CrystalColor	Produces more vivid and crisp color picture. (Off/Normal/Rich)		
Dynamic Contrast	Automatically enhances the image for greater picture details.	Crystal Color	Off
		Dynamic Contrast	**Off**
Adaptive Backlight	Enables or disable adaptive backlight. (Off/On)	Adaptive Backlight	Off
		Noise Reduction	Off
Noise Reduction	Resets the color temperature to default settings.	Digital NR	Off
		Film Mode	Off
Digital NR	Reduces noise level of digital signals. (Off/Low/Medium/High)	Super White	Off
		Black Enhancement	Off
Film Mode	Produces smoother motion picture when viewing movies.		
Super White	Brightens the white color to produce more vibrant images.		
Black Enhancement	Enhances black colors to a darker level.		

Professional Picture
Adjust various professional picture settings.

Reset Picture Settings
Reset the picture mode settings to default.

28

Audio Menu

XinemaSound 3D*
Thrilling surround sound effects with XinemaSound 3D, which delivers
deep bass and crystal clear diaglogue.. (Off, Movie, News)

XinemaSound	Movie
Bass	8
Treble	7
Balance	2
Lip Sync	2
TV Speakers	Off
Audio Only	
Digital Audio Out	Off
Analog Audio Out	
Reset Audio Mode	
Equalizer Settings	

XinemaSound
XinemaSound delivers a natural audio balance, with deep bass,
clear dialogue and detailed treble. (Off, Movie, News)

Bass

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

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

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

Lip Sync
Adjusts 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
Outputs audio from the TV speakers but turns off the TV display.

Digital Audio Out
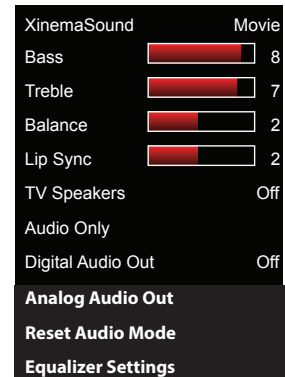Selects the type of digital audio output. (Off / Dolby Digital / PCM)

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

Reset Audio Mode
Resets the audio mode settings to default settings.

Equalizer Settings
Adjusts the equalizer settings. (120Hz / 500Hz / 1.5KHz / 5KHz / 10KHz)

*Available on EM55NF5 & EM55RF5 only.

29

Setup Menu

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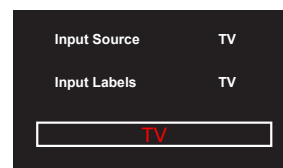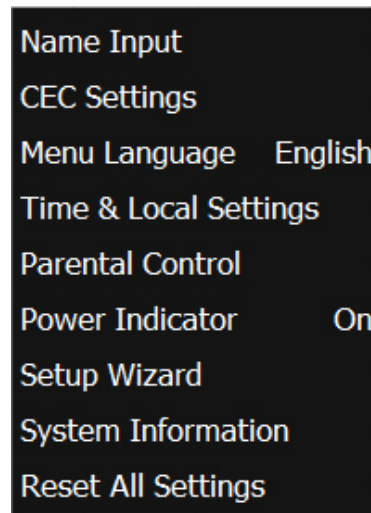The Name Input feature of the TV allows you to add a label name on an input source.

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 **BACK OR** ⟵ to close the menu screen.

Name Input	
CEC Settings	
Menu Language	English
Time & Local Settings	
Parental Control	
Power Indicator	On
Setup Wizard	
System Information	
Reset All Settings	

Input Source	TV
Input Labels	TV
TV	

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
Selects the on-screen menu language.

Time Zone	Selects a location to apply the time zone.
Daylight Saving	Enables or disables daylight savings 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.

Please enter password.

| |

| **OK** | **Cancel** |
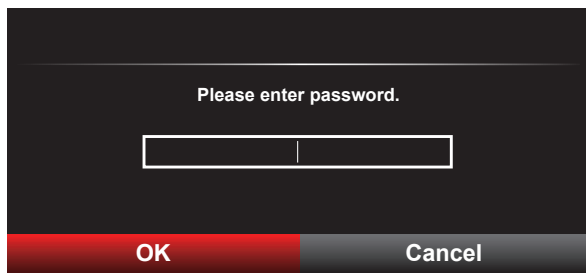
Note: The default password is "0000".

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 **BACK OR** ⬅ to close the menu screen.

Adjusting the Menu Settings

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.
> • **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.
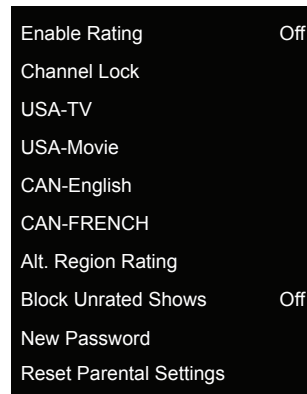
Enable Rating	Off
Channel Lock	
USA-TV	
USA-Movie	
CAN-English	
CAN-FRENCH	
Alt. Region Rating	
Block Unrated Shows	Off
New Password	
Reset Parental Settings	

2 Press ∨ or ∧, then press **OK** to select the rating.

3 Press ❮ to return to the previous screen or press RETURN to close the menu screen.

Change Password

1 In the "Parental Control" menu, press ∨ or ∧ to select "Change Password", then press ❯ or **OK**.

2 Enter a new password, then press **OK**.

3 Re-enter the new password, then press **OK** to complete.

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

Setup Wizard
Run the guided setup.

System Information
Display the system information of the TV.

Reset All Settings
Reset all TV settings to default settings.
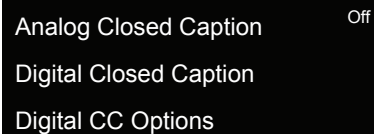
Closed Caption

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	
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 closed caption options, such as text size and text color. Press ∨ or ∧ to select "Digital CC Options", then press **OK**. Select the desired options.

5 Press **BACK OR ⟵** to close the menu screen.

Wide

Press **MENU** and select wide to change TV viewing aspect ratio.

1 Press ∨ or ∧ to select "Wide", then press ❯ or **OK**.

2 Press ∨ or ∧ to select "Normal" or "Wide", "Zoom", "Panoramic".

> **Note:** Refer to Basic Operation section for details.

| ⟷ |
| ▶ Wide |
| Normal |
| Zoom |
| Panoramic |

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**.

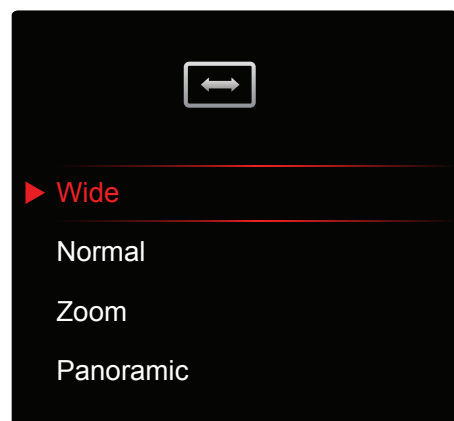**3** Press ∨ or ∧ to select "TV Mode", then press **OK**.

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.

1 Press **MENU**.

2 Press ∨ or ∧ to select "Auto Channel Scan", then press ❯ or **OK**.

3 Press ∨ or ∧ to select "Start Scan", then press **OK**.

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

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

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

1 Press **MENU**.

2 Press ∨ or ∧ to select "Partial Channel Scan", then press ❯ or **OK**.

3 Press ∨ or ∧ to select "Scan Mode", then press ❯ or **OK**.

4 Press ∨ or ∧ to select an option, then press **OK**.
   • "Analog/Digital": Scans for both analog and digital channels.
   • "Analog": Scans for analog channels.
   • "Digital": Scans 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**.

34

Adjusting the Menu Settings

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 **BACK OR** ⟵ to close the menu screen.

Sleep Timer

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

35

Appendix

Supported Resolution

Model Name	EMxxNF5 & EMxxRF5
Supported HDMI Timing	640 x 480 @ 60, 75Hz
	800 x 600 @ 60, 75Hz
	1024 x 768 @ 60, 75Hz
	1920 x 1080 @ 60Hz
Supported Video Timing (NTSC, Composite)	480i
Supported Video Timing (ATSC, Composite, HDMI)	480i, 480p, 720p, 1080i, 1080p

Troubleshooting

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

Problem	Solution
No power.	• 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.	• Press the VOL ⌃ button on the remote control or the Power/Multi Function button on the TV to adjust volume . • Press MUTE on the remote control to ensure that mute is not on. • The channel or cable TV is experiencing problems, tune to another channel. • Check the TV audio settings. • Check for possible sources of interference.
Poor picture or no picture.	• 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.	• 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.	• 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. • Make sure LED Indicator is lit up when any button is pressed.
TV shuts off.	• Sleep timer is on. • Power is interrupted.
No CATV reception.	• Check all cable TV connections. • Set the TV Mode in Channel menu.
Closed caption is not activated.	• The program tuned is not closed captioned. Try another channel. • Enable Closed Caption in the menu.

Specifications

Specifications are subject to change without prior notice.

	EM40NF5 & EM40RF5
Display Specification	
Size Class (diagonal)	40" (actual viewing size 39.5")
Resolution / Aspect:	1920x1080 / 16:9
Backlit:	DLED
Refresh Rate Frame Rate:	60 Hz
Contrast Ratio:	5000:1
TV Features	
Color Enhancement:	Yes
Tuner:	Yes
PIP/POP:	No
Close Caption:	Yes
Parental Control:	Yes
(EPG):	No
Picture Modes:	Yes
Audio	
Audio Technology:	MTS Stereo Decoder
	Dolby Digital Decoder
	(5.1 Ch Pass Through)
Graphic Equalizer:	Yes (XinemaSound Audio Modes)
Speaker Output Power:	10 Watts x 2
Convenience Features	
Ambient Sensor:	No
Interactive Setup Guide:	Yes
Input Port Naming:	Yes
Audio Only Mode:	Yes
HDMI-ARC:	Yes
HDMI-CEC:	Yes
USB Multimedia: Picture Viewer)	Yes
Remote:	Yes
Energy Saving Features	
Auto Power OFF (DMPS)	Yes
Energy Star:	Yes Energy Star 6.1
Input/ Output	
Input	
Antenna In:	1
HDMI:	2 (side port support MHL)
Component:	1
Composite (RCA):	1 (shared with component)
VGA / RGB:	0
Music Port:	1
USB:	1
Output	
Optical Digital Audio Out:	1
Stereo Audio Out:	1
Mechanical	
Wall Mount Pattern:	100mm x 100mm M4
Without Stand (WxHxD) and Weight (approx.):	35.5" x 20.5" x 2.8" / 15.3 lbs
With Stand (WxHxD) and Weight (approx.):	35.5" x 22.1" x 7.7" / 15.7 lbs

Specifications

Specifications are subject to change without prior notice.

	EM43NF5 & EM43RF5
Display Specification	
Size Class (diagonal)	43" (actual viewing size 42.5")
Resolution / Aspect:	1920x1080 / 16:9
Backlit:	DLED
Refresh Rate Frame Rate:	CM120 Hz
Contrast Ratio:	1200:1
TV Features	
Color Enhancement:	Yes
Tuner:	Yes
PIP/POP:	No
Close Caption:	Yes
Parental Control:	Yes
(EPG):	No
Picture Modes:	Yes
Audio	
Audio Technology:	MTS Stereo Decoder
	Dolby Digital Decoder
	(5.1 Ch Pass Through)
Graphic Equalizer:	Yes (XinemaSound Audio Modes)
Speaker Output Power:	10 Watts x 2
Convenience Features	
Ambient Sensor:	No
Interactive Setup Guide:	Yes
Input Port Naming:	Yes
Audio Only Mode:	Yes
HDMI-ARC:	Yes
HDMI-CEC:	Yes
USB Multimedia: Picture Viewer)	Yes
Remote:	Yes
Energy Saving Features	
Auto Power OFF (DMPS)	Yes
Energy Star:	Yes Energy Star 6.1
Input/ Output	
Input	
Antenna In:	1
HDMI:	3 (side port support MHL)
Component:	1
Composite (RCA):	1 (shared with component)
VGA / RGB:	0
Music Port:	1
USB:	1
Output	
Optical Digital Audio Out:	1
Stereo Audio Out:	1
Mechanical	
Wall Mount Pattern:	200mm x 200mm M6
Without Stand (WxHxD) and Weight (approx.):	38.1" x 22.4" x 2.8" / 19.4 lbs
With Stand (WxHxD) and Weight (approx.):	38.1" x 24.0" x 7.7" / 19.8 lbs

Specifications

Specifications are subject to change without prior notice.

	EM50NF5 & EM50RF5
Display Specification	
Size Class (diagonal)	50" (actual viewing size 49.5")
Resolution / Aspect:	1920x1080 / 16:9
Backlit:	DLED
Refresh Rate Frame Rate:	CM120 Hz
Contrast Ratio:	3000:1
TV Features	
Color Enhancement:	Yes
Tuner:	Yes
PIP/POP:	No
Close Caption:	Yes
Parental Control:	Yes
(EPG):	No
Picture Modes:	Yes
Audio	
Audio Technology:	MTS Stereo Decoder
	Dolby Digital Decoder
	(5.1 Ch Pass Through)
Graphic Equalizer:	Yes (XinemaSound Audio Modes)
Speaker Output Power:	10 Watts x 2
Convenience Features	
Ambient Sensor:	No
Interactive Setup Guide:	Yes
Input Port Naming:	Yes
Audio Only Mode:	Yes
HDMI-ARC:	Yes
HDMI-CEC:	Yes
USB Multimedia: Picture Viewer)	Yes
Remote:	Yes
Energy Saving Features	
Auto Power OFF (DMPS)	Yes
Energy Star:	Yes Energy Star 6.1
Input/ Output	
Input	
Antenna In:	1
HDMI:	4 (side port support MHL)
Component:	1
Composit (RCA):	1 (shared with component)
VGA / RGB:	0
Music Port:	1
USB:	1
Output	
Optical Digital Audio Out:	1
Stereo Audio Out:	1
Mechanical	
Wall Mount Pattern:	200mm x 200mm M6
Without Stand (WxHxD) and Weight (approx.):	44.30" x 26.02" x 2.83" / 26.24 lbs
With Stand (WxHxD) and Weight (approx.):	44.30" x 27.91" x 11.60" / 27.56 lbs

Specifications

Specifications are subject to change without prior notice.

	EM55NF5 & EM55RF5
Display Specification	
Size Class (diagonal)	55" (actual viewing size 54.6")
Resolution / Aspect:	1920x1080 / 16:9
Backlit:	DLED
Refresh Rate Frame Rate:	CM120 Hz
Contrast Ratio:	**3500:1**
TV Features	
Color Enhancement:	Yes
Tuner:	Yes
PIP/POP:	No
Close Caption:	Yes
Parental Control:	Yes
(EPG):	No
Picture Modes:	Yes
Audio	
Audio Technology:	MTS Stereo Decoder
	Dolby Digital Decoder
	(5.1 Ch Pass Through)
Graphic Equalizer:	Yes (XinemaSound 3D)
Speaker Output Power:	15 Watts x 2
Convenience Features	
Ambient Sensor:	No
Interactive Setup Guide:	Yes
Input Port Naming:	Yes
Audio Only Mode:	Yes
HDMI-ARC:	Yes
HDMI-CEC:	Yes
USB Multimedia: Picture Viewer)	Yes
Remote:	Yes
Energy Saving Features	
Auto Power OFF (DMPS)	Yes
Energy Star:	Yes Energy Star 6.1
Input/ Output	
Input	
Antenna In:	1
HDMI:	4 (side port support MHL)
Component:	1
Composit (RCA):	1 (shared with component)
VGA / RGB:	0
Music Port:	1
USB:	1
Output	
Optical Digital Audio Out:	1
Stereo Audio Out:	1
Mechanical	
Wall Mount Pattern:	400mm x 400mm M6
Without Stand (WxHxD) and Weight (approx.):	TBD
With Stand (WxHxD) and Weight (approx.):	TBD

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ON PARTS AND LABOR

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