VIZIO

MODELS

E240AR
E320AR
E420AR
E500AR

USER GUIDE

INSTALLING YOUR NEW TV

CONTROLS & CONNECTIONS

CONNECTING YOUR DEVICES

USING THE ON-SCREEN MENU

USING USB PHOTO SLIDESHOW

TROUBLESHOOTING & SUPPORT

SPECS, WARRANTY & LEGAL

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 settings or enabling other features will increase power consumption that could exceed the limits necessary to qualify for ENERGY STAR rating.

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Welcome

THANK YOU FOR CHOOSING VIZIO

And congratulations on your new VIZIO HDTV.

To get the most out of your new VIZIO product, read these instructions before using your product and retain them for future reference. Be sure to inspect the package contents to ensure there are no missing or damaged parts.

PRODUCT REGISTRATION

To purchase or inquire about accessories and installation services for your VIZIO product, visit our website at www.VIZIO.com or call toll free at (877) 878-4946.

We recommend that you either:

- Register your VIZIO product at www.VIZIO.com
- Complete and mail the enclosed registration card

Extended Warranties

For peace of mind, and to protect your investment beyond the standard warranty, VIZIO offers on-site extended warranty service plans. These plans provide additional coverage during the standard warranty period. To purchase an extended warranty service plan, visit www.VIZIO.com.

WHEN READING THIS MANUAL

When you see this symbol, please read the accompanying important warning or notice. It is intended to alert you to the presence of important operating instructions.

When you see this symbol, please read the accompanying helpful tip.

IMPORTANT SAFETY INSTRUCTIONS

Your TV is designed and manufactured to operate within defined design limits. Misuse may result in electric shock or fire. To prevent your TV from being damaged, the following instructions should be observed for the installation, use, and maintenance of your TV. Read the following safety instructions before operating your TV. Keep these instructions in a safe place for future reference.

- To reduce the risk of electric shock or component damage, switch off the power before connecting other components to your TV.
- Read these instructions.
- Keep these instructions.
- Heed all warnings.
- Follow all instructions.
- Do not use this apparatus near water.
- Clean only with a dry cloth.
- Do not block any ventilation openings. Install in accordance with the manufacturer's instructions.
- Do not install near any heat sources such as radiators, heat registers, stoves, or other apparatus (including amplifiers) that produce heat.
- Do not defeat the safety purpose of the polarized or grounding-type plug. A polarized 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.
- Protect the power cord from being walked on or pinched, particularly at plugs, convenience receptacles, and the point where they exit from the apparatus.
- Only use attachments/accessories specified by the manufacturer.
- 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.

- Unplug this apparatus during lightning storms or when unused for long periods of time.
- Refer all servicing to qualified service personnel. Servicing is required when the apparatus has been damaged in any way, such as when the 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.
- Unplug the power cord before cleaning your TV.
- When moving your TV from an area of low temperature to an area of high temperature, condensation may form in the housing. Wait before turning on your TV to avoid causing fire, electric shock, or component damage.
- A distance of at least three feet should be maintained between your TV and any heat source, such as a radiator, heater, oven, amplifier etc. Do not install your TV close to smoke. Operating your TV close to smoke or moisture may cause fire or electric shock.
- Slots and openings in the back and bottom of the cabinet are provided for ventilation. To ensure reliable operation of your TV and to protect it from overheating, be sure these openings are not blocked or covered. Do not place your TV in a bookcase or cabinet unless proper ventilation is provided.
- Never push any object into the slots and openings on your TV cabinet. Do not place any objects on the top of your TV. Doing so could short circuit parts causing a fire or electric shock. Never spill liquids on your TV.
- Your TV should be operated only from the type of power source indicated on the label. If you are not sure of the type of power supplied to your home, consult your dealer or local power company.
- Do not apply pressure or throw objects at your TV. This may compromise the integrity of the display. The manufacturer's warranty does not cover user abuse or improper installations.
- The power cord must be replaced when using different voltage than the voltage specified. For more information, contact your dealer.
- When connected to a power outlet, power is always flowing into your TV. To totally disconnect power, unplug the power cord.
- The lightning flash with arrowhead symbol within an equilateral triangle is intended to alert the user to the presence of un-isolated, dangerous voltage within the inside of your TV that may be of sufficient magnitude to constitute a risk of electric shock to persons.
- Do not overload power strips and extension cords. Overloading can result in fire or electric shock.
- The wall socket should be installed near your TV and easily accessible.
- Only power of the marked voltage can be used for your TV. Any other voltage than the specified voltage may cause fire or electric shock.
- Do not touch the power cord during lightning. To avoid electric shock, avoid handling the power cord during electrical storms.
- Unplug your TV during a lightning storm or when it will not be used for long period of time. This will protect your TV from damage due to power surges.
- Do not attempt to repair or service your TV yourself. Opening or removing the back cover may expose you to high voltages, electric shock, and other hazards. If repair is required, contact your dealer and refer all servicing to qualified service personnel.
- WARNING: Keep your TV away from moisture. Do not expose your TV to rain or moisture. If water penetrates into your TV, unplug the power cord and contact your dealer.

Continuous use in this case may result in fire or electric shock.

- Do not use your TV if any abnormality occurs. If any smoke or odor becomes apparent, unplug the power cord and contact your dealer immediately. Do not try to repair your TV yourself.
- Avoid using dropped or damaged appliances. If your TV is dropped and the housing is damaged, the internal components may function abnormally. Unplug the power cord immediately and contact your dealer for repair. Continued use of your TV may cause fire or electric shock.
- Do not install your TV in an area with heavy dust or high humidity. Operating your TV in environments with heavy dust or high humidity may cause fire or electric shock.
- Follow instructions for moving your TV. Ensure that the power cord and any other cables are unplugged before moving your TV.
- When unplugging your TV, hold the AC/DC power adapter, not the cord. Pulling on the power cord may damage the wires inside the cord and cause fire or electric shock. When your TV will not be used for an extended period of time, unplug the power cord.
- To reduce risk of electric shock, do not touch the connector with wet hands.
- Insert batteries in accordance with instructions. Incorrect polarities may cause the batteries to leak which can damage the remote control or injure the operator. Do not expose batteries to excessive heat such as sunshine, fire or the like.
- If any of the following occurs, contact the dealer:
  - The power cord fails or frays.
  - Liquid sprays or any object drops into your TV.
  - Your TV is exposed to rain or other moisture.
  - Your TV is dropped or damaged in any way.
  - The performance of your TV changes substantially.

- This apparatus shall not be exposed to dripping or splashing and no objects filled with liquids, such as vases, shall be placed on the apparatus.
- The mains plug or appliance coupler is used as the disconnect device, the disconnect device shall remain readily operable.
- CAUTION - These servicing instructions are for use by qualified service personnel only. To reduce the risk of electric shock, do not perform any servicing other than that contained in the operating instructions unless you are qualified to do so.

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 electrical shock to persons.

TELEVISION ANTENNA CONNECTION PROTECTION

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.

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. Remember, the screen of the coaxial cable is intended to be connected to earth in the building installation.

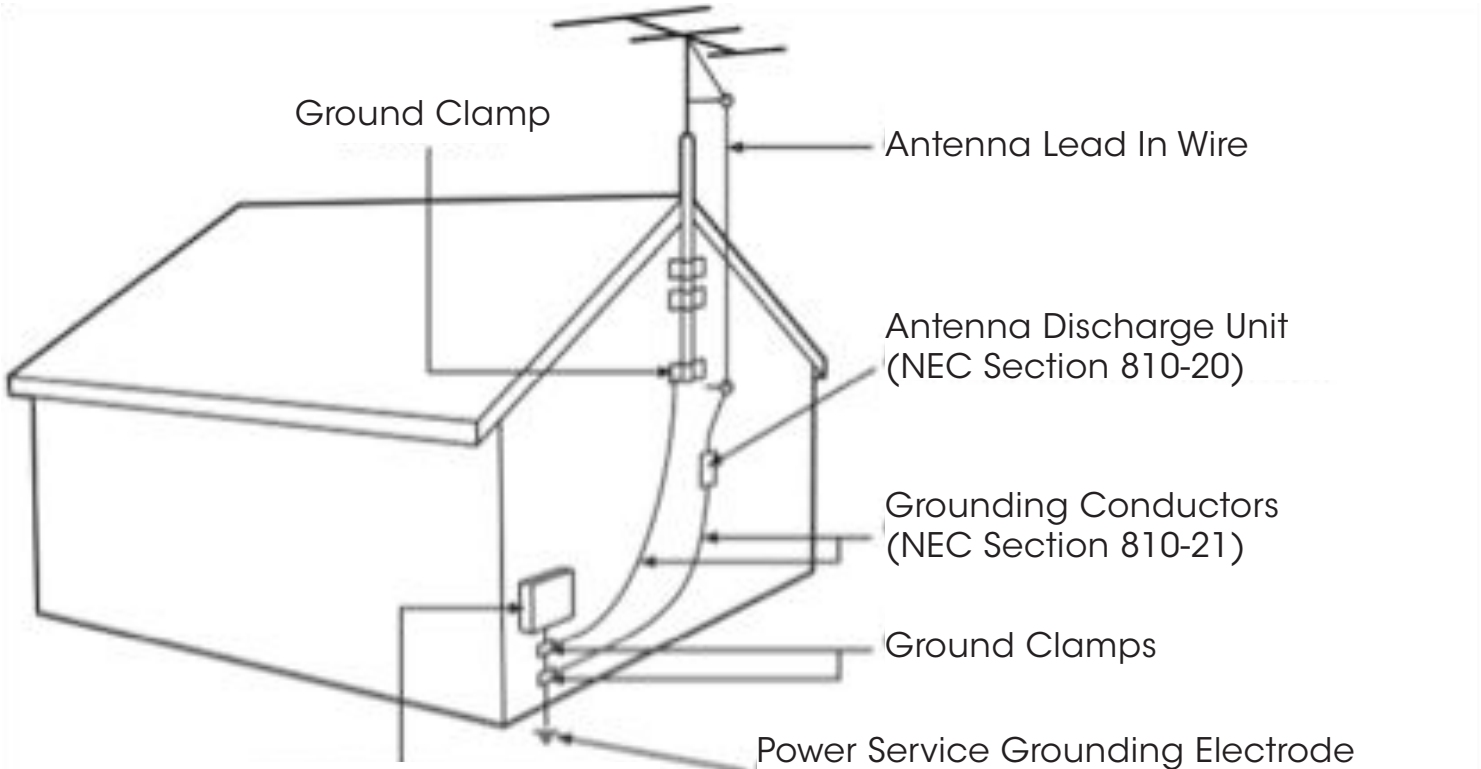


Table of Contents

Installing the TV 3
- Inspecting the Package Contents 3
- Installing the TV 3
  - Installing the TV Stand 3
  - Installing the TV on a Wall 4
  - Wall Mount Screw Location 5

Controls and Connections 6
- Rear Panel (E240AR) 6
- Rear Panel (E320AR & E420AR) 7
- Rear Panel (E500AR) 8
- Side Panel 9
- Front Panel 10
- Remote Control 11
  - Replacing the Batteries 12

Connecting Your Devices 13
- Connecting A Device (E240AR) 13
- Connecting A Device (E320AR & E420AR) 14
- Connecting A Device (E500AR) 15
- Connecting A PC (E240AR) 16
- Connecting A PC (E320AR & E420AR) 17
- Connecting A PC (E500AR) 18
- Connecting an Audio Device (E240AR) 19
- Connecting an Audio Device (E320AR & E420AR) 20
- Connecting an Audio Device (E500AR) 21

Completing the First-Time Setup 22

Using the On-Screen Menu 23
- Navigating the On-Screen Menu 23
- Changing the Input Source 24
- Changing the Screen Aspect Ratio 24
- Setting Up Closed Captioning 25
  - Changing the Appearance of Digital Closed Captions 25
- Activating the Sleep Timer 26
  - Setting the Auto Power Off Feature 26
- Adjusting the Picture Settings 26
  - Adjusting the Advanced Picture Settings 27
  - Adjusting the Color Temperature 28
  - Adjusting the Picture Size and Position 29
  - Resetting the Picture Settings 29
- Adjusting the Audio Settings 29
  - Adjusting the Advanced Audio Settings 30
  - Resetting the Audio Settings 31
- Changing the TV Settings 32
  - Changing the Input Source 32
  - Setting the Tuner Mode 32
  - Scanning for Channels 32
  - Adding New Channels 33
  - Skipping Channels 34
  - Changing the Audio Language 34
  - Using the Parental Controls 35
  - Accessing the Parental Controls Menu 35
  - Enabling or Disabling Program Ratings 35
  - Locking and Unlocking Channels 35
  - Blocking and Unblocking Content by Rating 36
  - Changing the Parental Control Passcode 36
  - Resetting the Content Locks 36
  - Changing the Names of the Inputs 37

Changing the On-Screen Menu Language 37
Setting the Time and Local Settings 38
Adjusting the CEC Settings 38
Using the Help Menu 39
Displaying System Information 39
Resetting the TV Settings 39
Restoring the TV to Factory Default Settings 40
Using Setup Wizard 40
Using the Info Window 41
Using the USB Media Player 42
Using the USB Photo slideshow 42
Connecting a USB Thumb Drive to the TV 42
Playing USB Media 43
Troubleshooting & Technical Support 45
Specifications 48
Limited Warranty 50
Legal & Compliance 51

INSPECTING THE PACKAGE CONTENTS

Before installing your new TV, take a moment to inspect the package contents. Use the images below to ensure nothing is missing or damaged.

VIZIO HDTV

Quick Start Guide

Remote Control with Batteries

Package Contents

INSTALLING THE TV

After removing the TV from the box and inspecting the package contents you can begin installing the TV. Your TV can be installed in two ways:

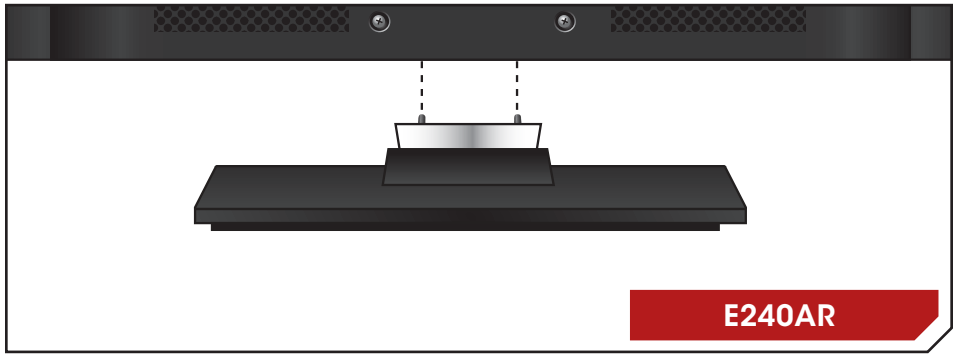
- On a flat surface, using the included stand
- On a wall, using a VESA-standard wall mount (not included)

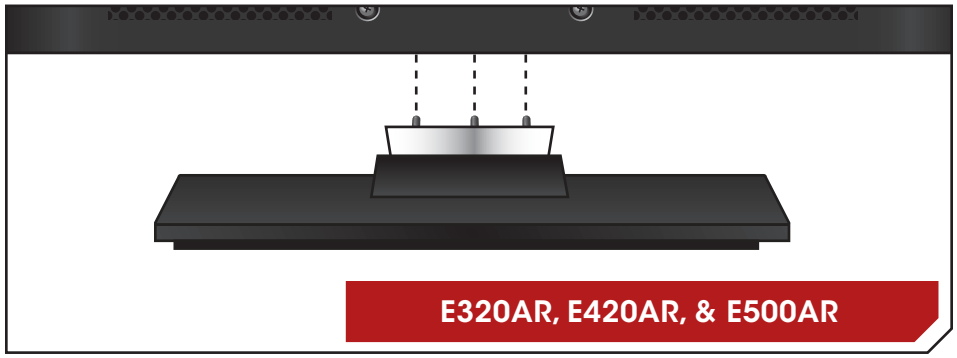
Installing the TV Stand

Your TV includes a stand designed to support the weight of the TV and keep it from falling over. However, the TV can still fall over if:

- It is placed on an uneven, unstable, or non-level surface
- It is pushed, pulled, or otherwise improperly moved
- If an earthquake occurs and the TV is not properly secured

TV on Stand





To install the TV stand:

1. Place the TV screen-down on a clean, flat surface. To prevent scratches or damage to the screen, place the TV on a soft surface, such as carpet, rug, or blanket.
2. Align the stand with the TV.
3. Attach the stand to the TV by tightening the pre-installed screws.
4. Move the TV with attached stand into an upright position and place on a flat, level, and stable surface.
5. To ensure proper ventilation, leave at least 1" of space between the back of the TV and any other objects (walls, etc).

Installing the TV on a Wall

To mount your TV on a wall, you will need a wall mount. Consult the information below to find the appropriate mount for your TV model:

Installing a TV on a wall requires lifting. To prevent injury or damage to the TV, ask someone to help you.

	E240AR	E320AR	E420AR	E500AR
Screw Size:	M4	M6	M6	M6
Screw Length:	12mm	12mm	12mm	12mm
Hole Pattern:	100mm (V) x 100mm (H)	200mm (V) x 200mm (H)	300mm (V) x 300mm (H)	300mm (V) x 300mm (H)

Be sure the mount you choose is capable of supporting the weight of the TV. After you have determined that you have the correct mount for your TV, you can begin the installation.

To install your TV on a wall:

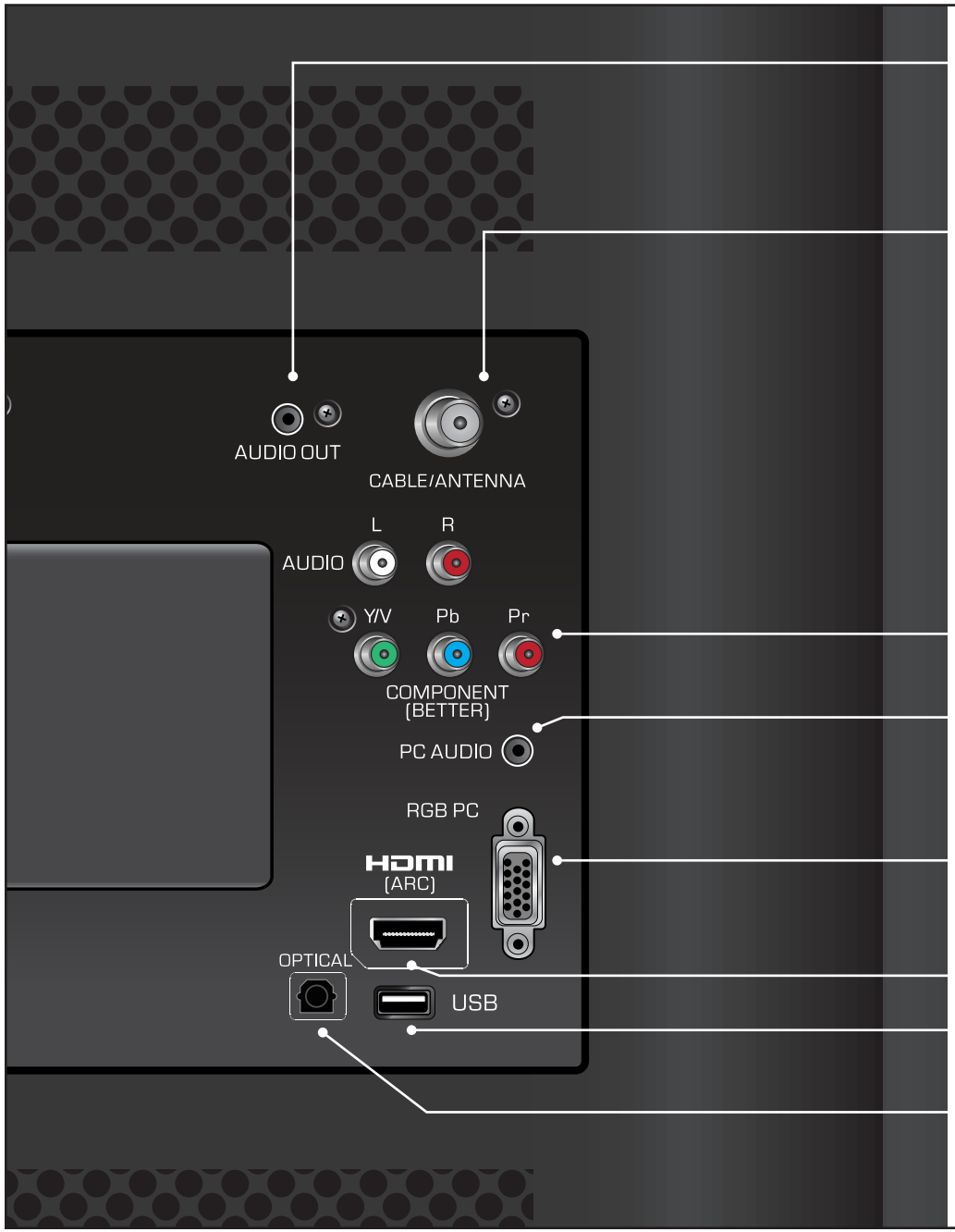
1. Disconnect any cables connected to your TV.
2. Place the TV face-down on a clean, flat, stable surface. Be sure the surface is clear of debris that can scratch or damage the TV.
3. Remove the stand by loosening and removing the screws.
4. Attach your TV and wall mount to the wall, carefully following the instructions that came with your mount.

   Use only with a UL-listed wall mount bracket rated for the weight/load of this TV. See *Appendix B - Specifications* for the weight of this TV.

For some wall mounts, you may want to use cables with right-angle connectors. This allows the TV to rest closer to the wall.

Wall Mount Screw Location

REAR PANEL (E240AR)



Stereo Audio Out - Connect 3.5mm audio device, such as sound bar.

Coaxial - Connect coaxial cable from cable, satellite, or antenna.

Component/Composite - Connect component or composite device.

PC Audio In - Connect 3.5mm audio cable from PC.

RGB - Connect VGA cable from PC.

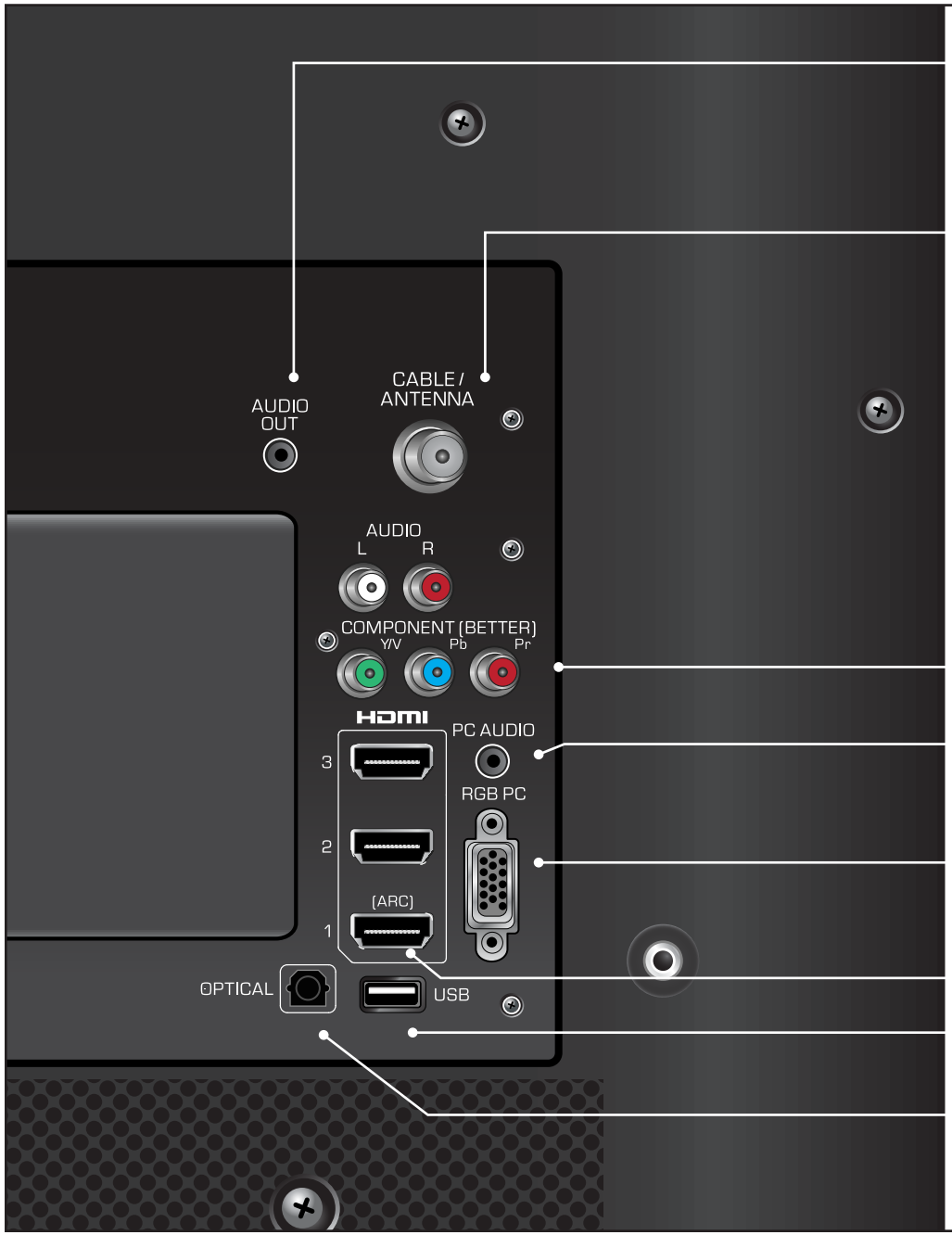
HDMI - Connect HDMI device.

USB - Connect USB thumb drive to play media.

Optical Audio Out - Connect optical/SPDIF audio device, such as home audio receiver.

Rear Panel - E240AR

REAR PANEL (E320AR & E420AR)



Stereo Audio Out - Connect 3.5mm audio device, such as sound bar.

Coaxial - Connect coaxial cable from cable, satellite, or antenna.

Component/Composite - Connect component or composite device.

PC Audio In - Connect 3.5mm audio cable from PC.

RGB - Connect VGA cable from PC.

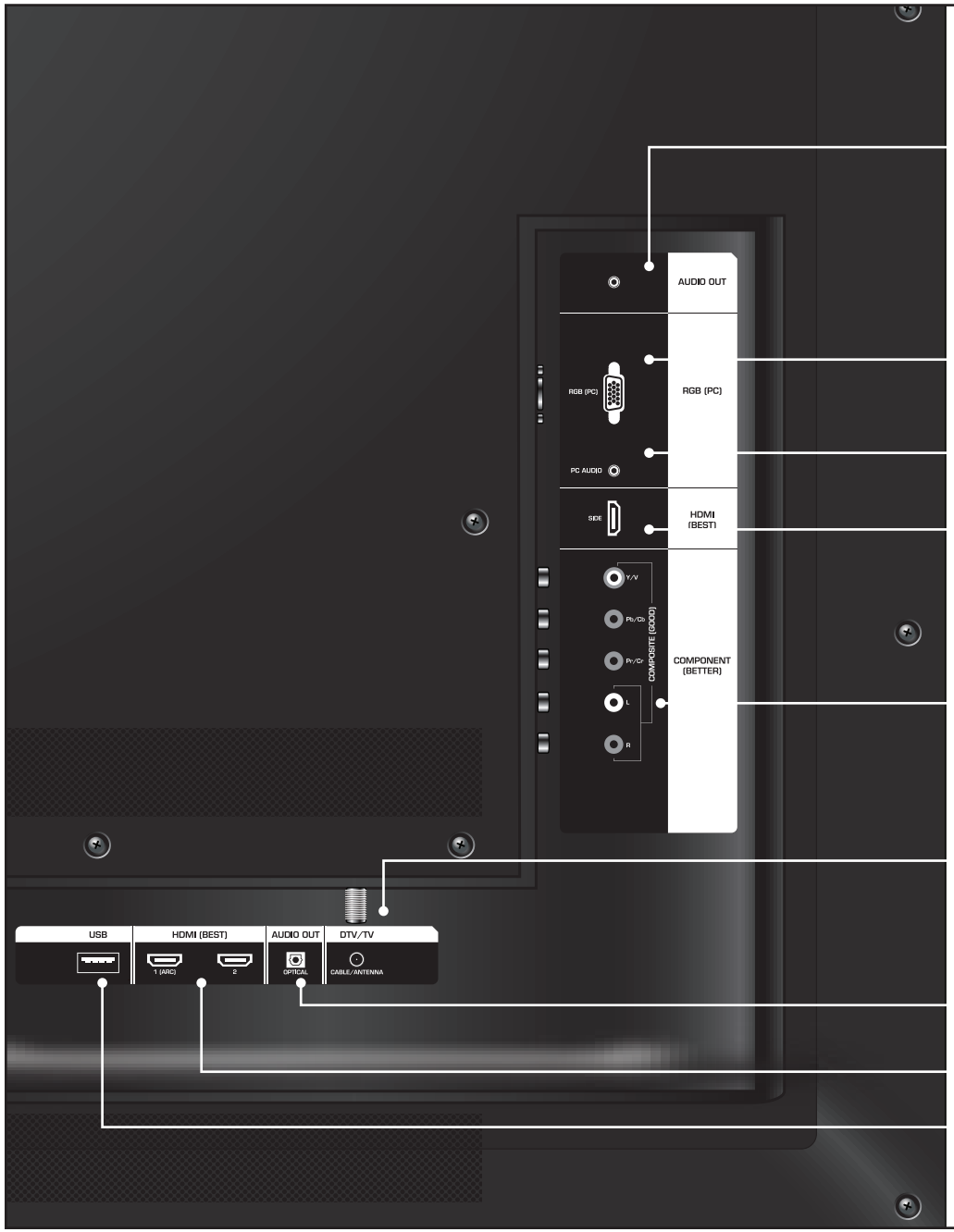
HDMI - Connect HDMI device.

USB - Connect USB thumb drive to play media.

Optical Audio Out - Connect optical/SPDIF audio device, such as home audio receiver.

Rear Panel - E320AR & E420AR

REAR PANEL (E500AR)



Stereo Audio Out - Connect 3.5mm audio device, such as sound bar.

RGB - Connect VGA cable from PC.

PC Audio In - Connect 3.5mm audio cable from PC.

HDMI - Connect HDMI device.

Component/Composite - Connect component or composite device.

Coaxial - Connect coaxial cable from cable, satellite, or antenna.

Optical Audio Out - Connect optical/SPDIF audio device, such as home audio receiver.

HDMI - Connect HDMI device.

USB - Connect USB thumb drive to play media.

Rear Panel - E500AR

SIDE PANEL

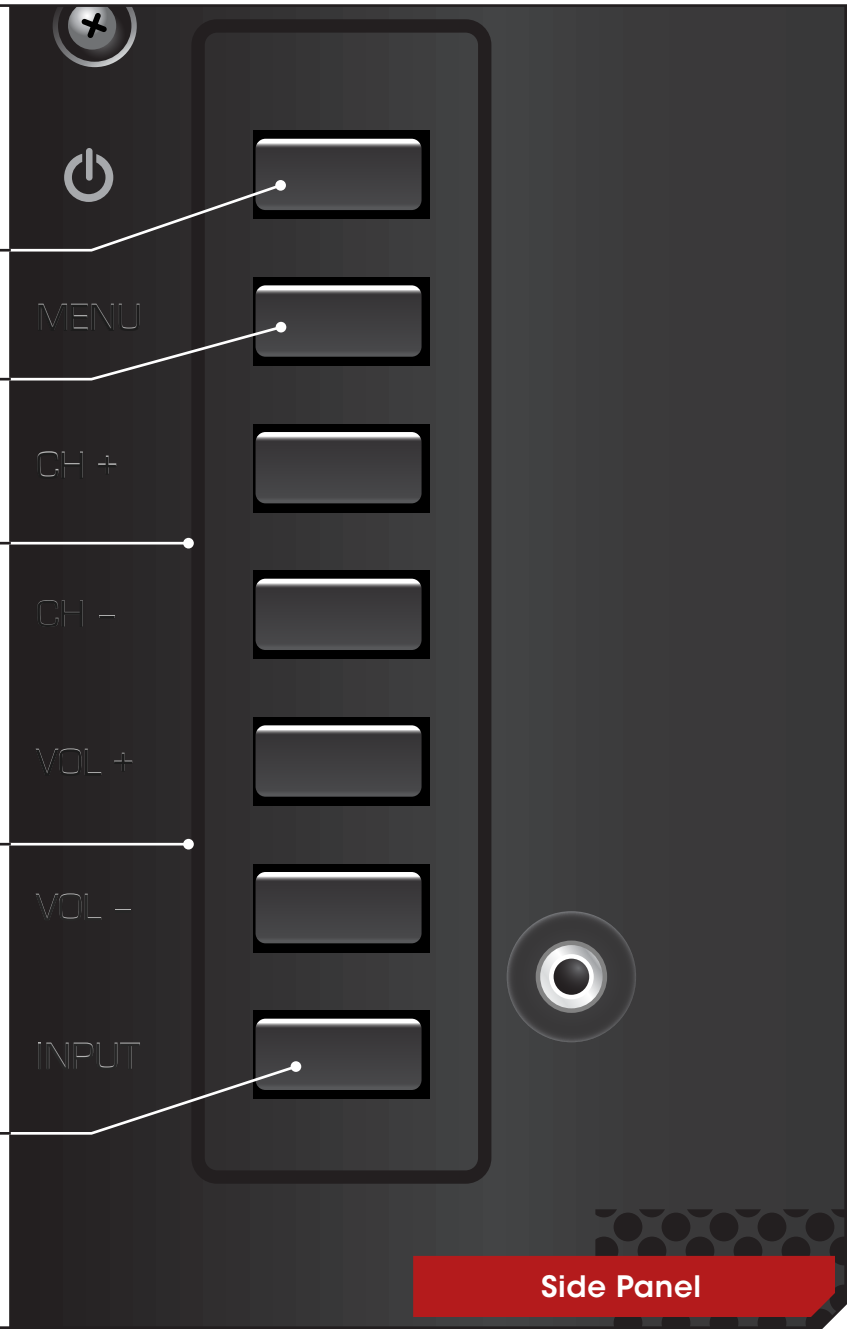
POWER - Turn TV off or on.

MENU - Open the on-screen menu.

CHANNEL UP/DOWN - Change the channel.

VOLUME UP/DOWN - Increase or decrease volume level

INPUT - Change input source.



Side Panel

FRONT PANEL

REMOTE SENSOR
When using the remote, aim it directly at this sensor.

REMOTE CONTROL

INPUT
Change the currently-displayed input.

A/V CONTROLS
Control USB photo viewer.

CLOSED CAPTIONS
Open the closed caption menu.

EXIT
Close the on-screen menu.

OK
Select the highlighted menu option.

BACK
Go to the previous on-screen menu.

VOLUME UP/DOWN
Increase or decrease loudness of the audio.

MUTE
Turn the audio off or on.

NUMBER PAD
Manually enter a channel.

WIDE
Switch the display mode.

POWER
Turn TV on or off.

INFO
Display the info window.

MENU
Display the on-screen menu.

ARROW
Navigate the on-screen menu.

GUIDE
Display the info window.

V BUTTON
Open the USB photo viewer.

CHANNEL UP/DOWN
Change the channel.

LAST
Return to the channel last viewed.

DASH
Use with number pad to manually enter a digital sub-channel. (For example, 18-4 or 18-5.)

Replacing the Batteries

1. Remove the battery cover.
2. Insert two batteries into the remote control. Make sure that the (+) and (-) symbols on the batteries match the (+) and (-) symbols inside the battery compartment.
3. Replace the battery cover.

- Use only good quality batteries.
- Inserting the batteries incorrectly may result in cracking or leakage that may cause a fire or result in injury.
- Dispose of old or dead batteries in accordance with local hazardous waste regulations.
- Keep batteries away from children and pets.

Replacing the Batteries

CONNECTING A DEVICE (E240AR)

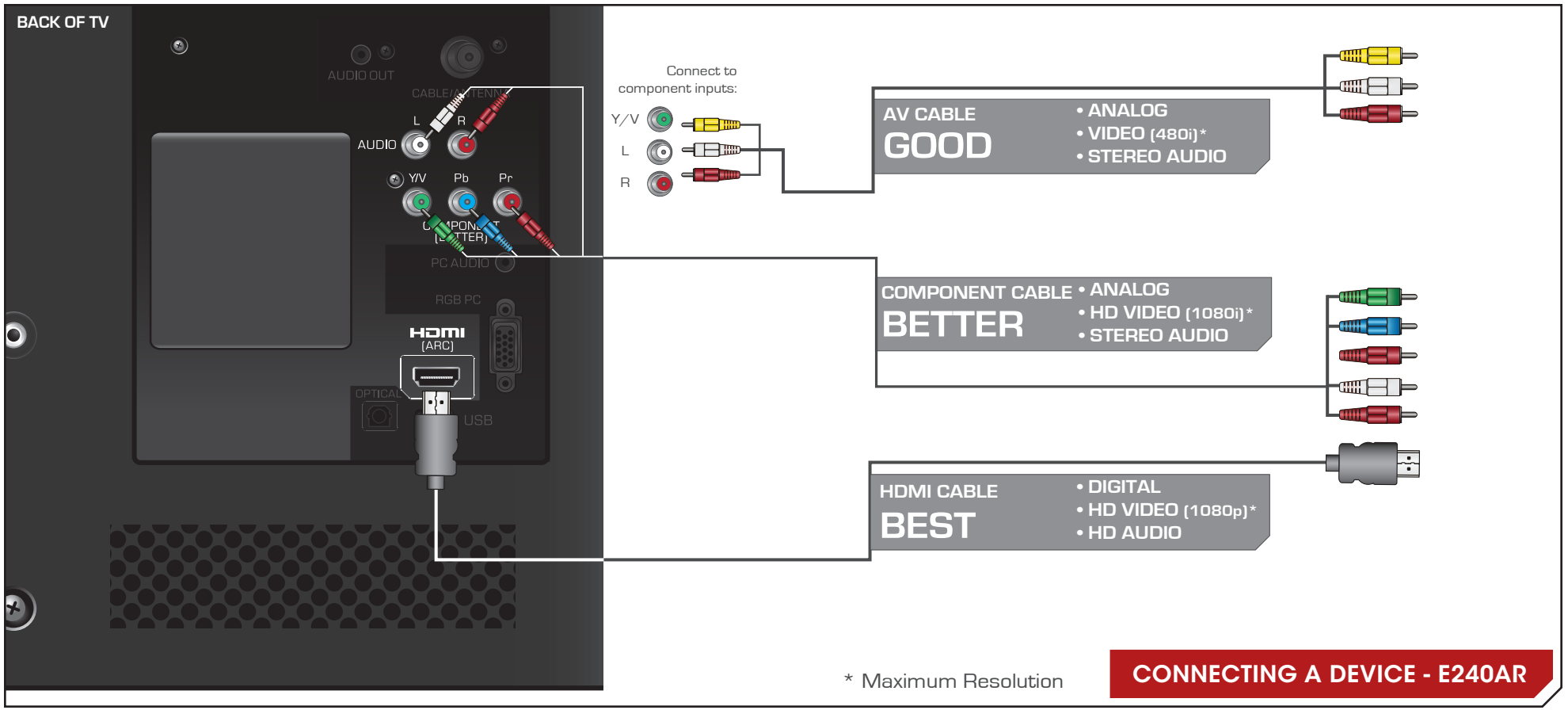
Your TV can be used to display output from most devices.

1. Verify that your device has a video port that matches an available port on the TV (HDMI, Component, etc).
2. Turn the TV and your device off.
3. Connect the appropriate cable (not included) to the TV and the device.
4. Turn the TV and your device on. Set the TV's input to match the connection you used (HDMI, Component, etc).

Cable/Satellite Box

DVD/Blu-ray Player

Game Console



CONNECTING A DEVICE (E320AR & E420AR)

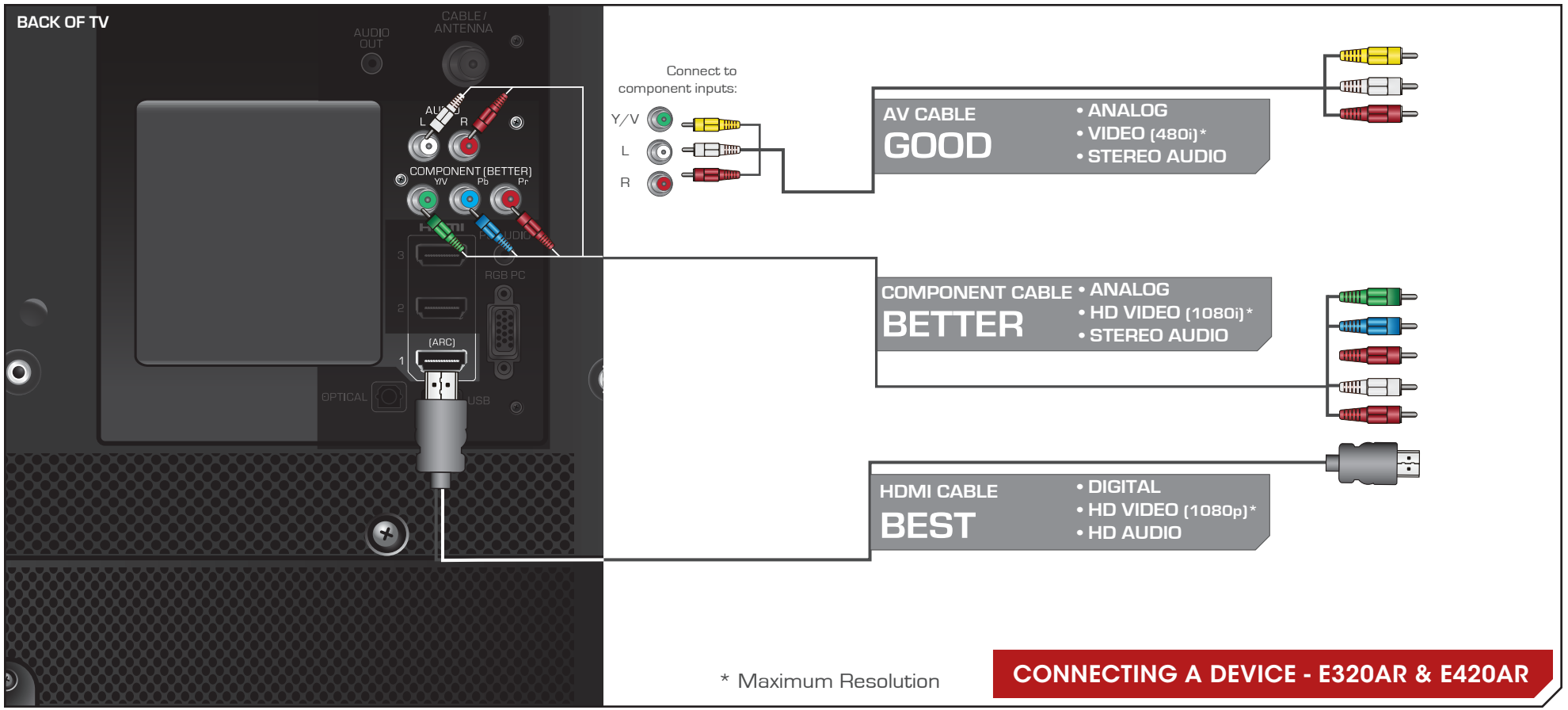
Your TV can be used to display output from most devices.

1. Verify that your device has a video port that matches an available port on the TV (HDMI, Component, etc).
2. Turn the TV and your device off.
3. Connect the appropriate cable (not included) to the TV and the device.
4. Turn the TV and your device on. Set the TV's input to match the connection you used (HDMI, Component, etc).

Cable/Satellite Box

DVD/Blu-ray Player

Game Console



CONNECTING A DEVICE (E500AR)

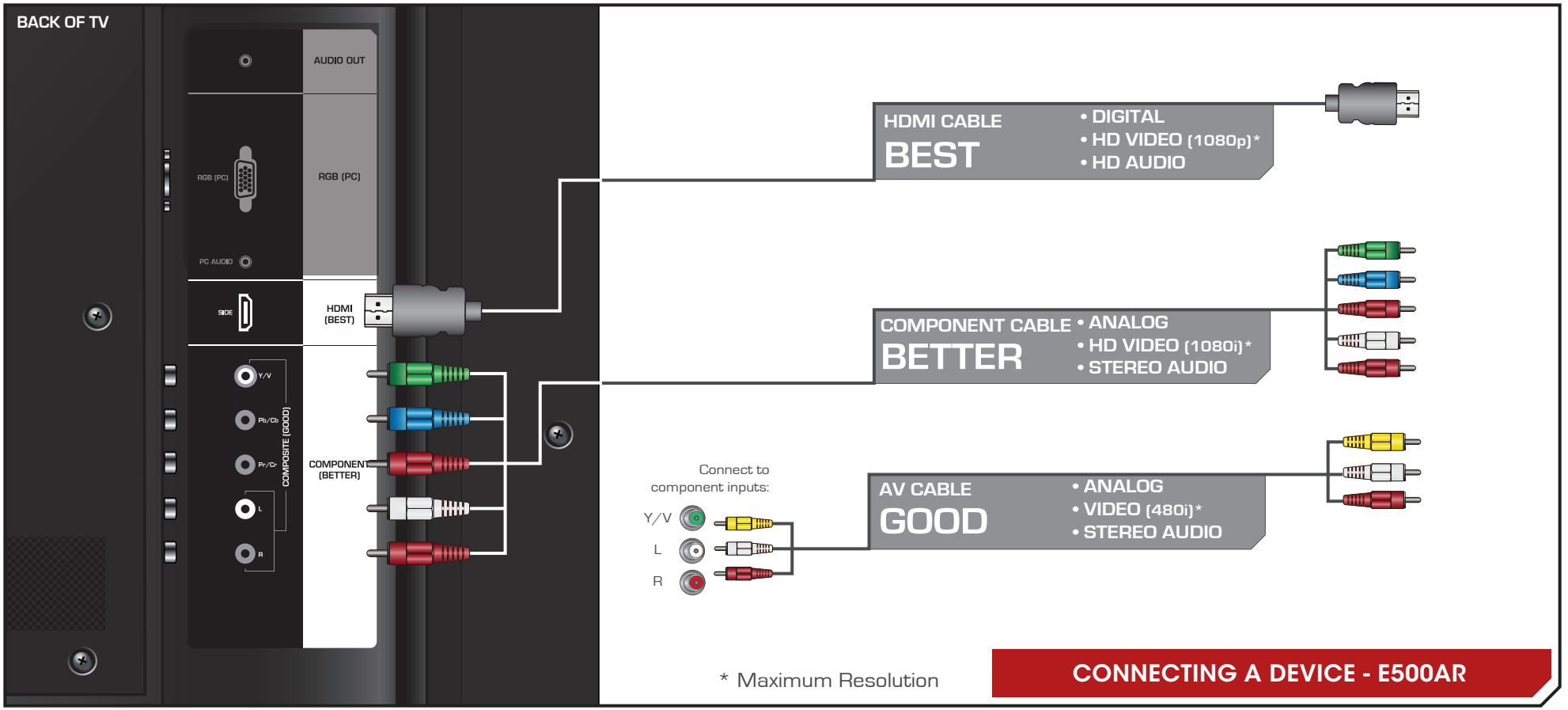
Your TV can be used to display output from most devices.

1. Verify that your device has a video port that matches an available port on the TV (HDMI, Component, etc).
2. Turn the TV and your device off.
3. Connect the appropriate cable (not included) to the TV and the device.
4. Turn the TV and your device on. Set the TV's input to match the connection you used (HDMI, Component, etc).

Cable/Satellite Box

DVD/Blu-ray Player

Game Console



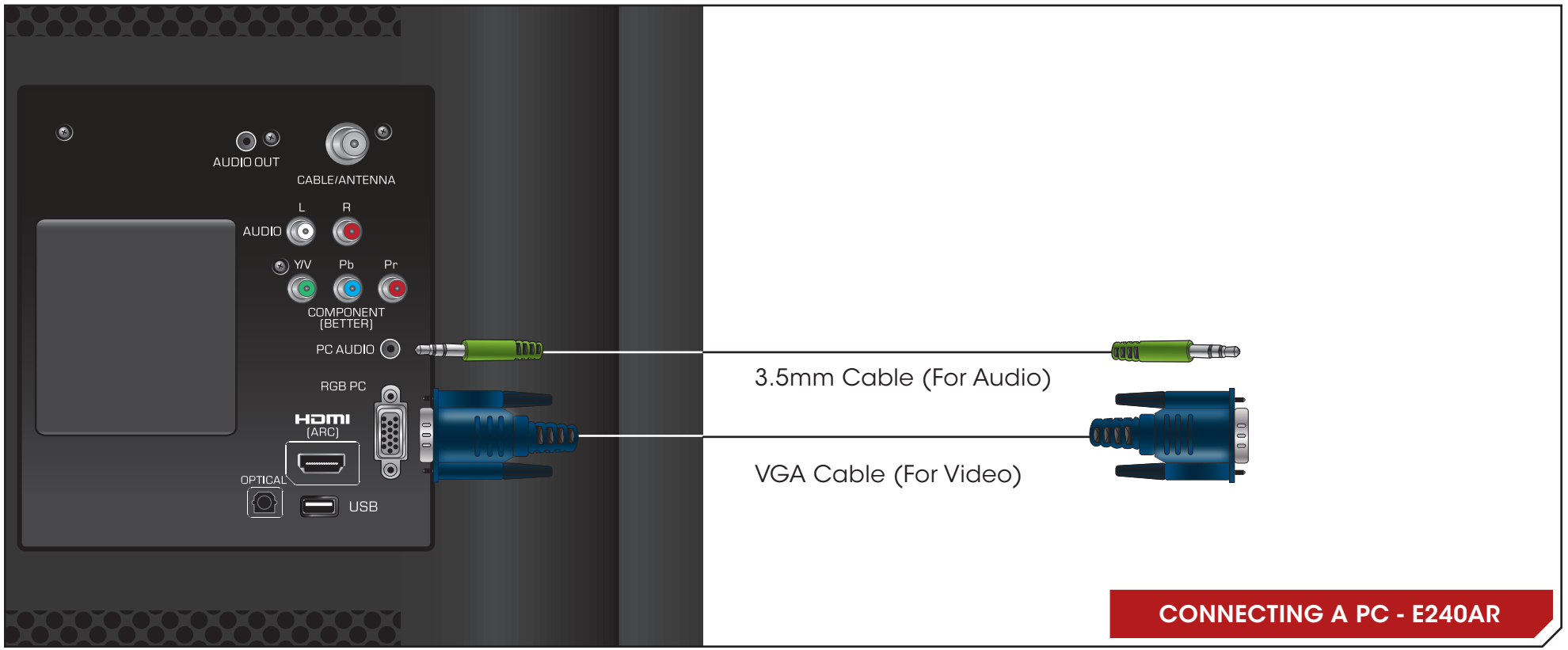
CONNECTING A PC (E240AR)

Your TV can be used to display output from a personal computer.

To use your TV as a PC display:

1. Connect a VGA cable (not included) to your PC and the RGB port on the back of the TV. This cable transmits video.
2. Connect a 3.5mm cable (not included) to your PC and the PC Audio In port on the back of the TV. This cable transmits audio.
3. Set your PC's resolution to match the resolution of your TV. See *Appendix B - Specifications.*

Personal Computer



CONNECTING A PC - E240AR

CONNECTING A PC (E320AR & E420AR)

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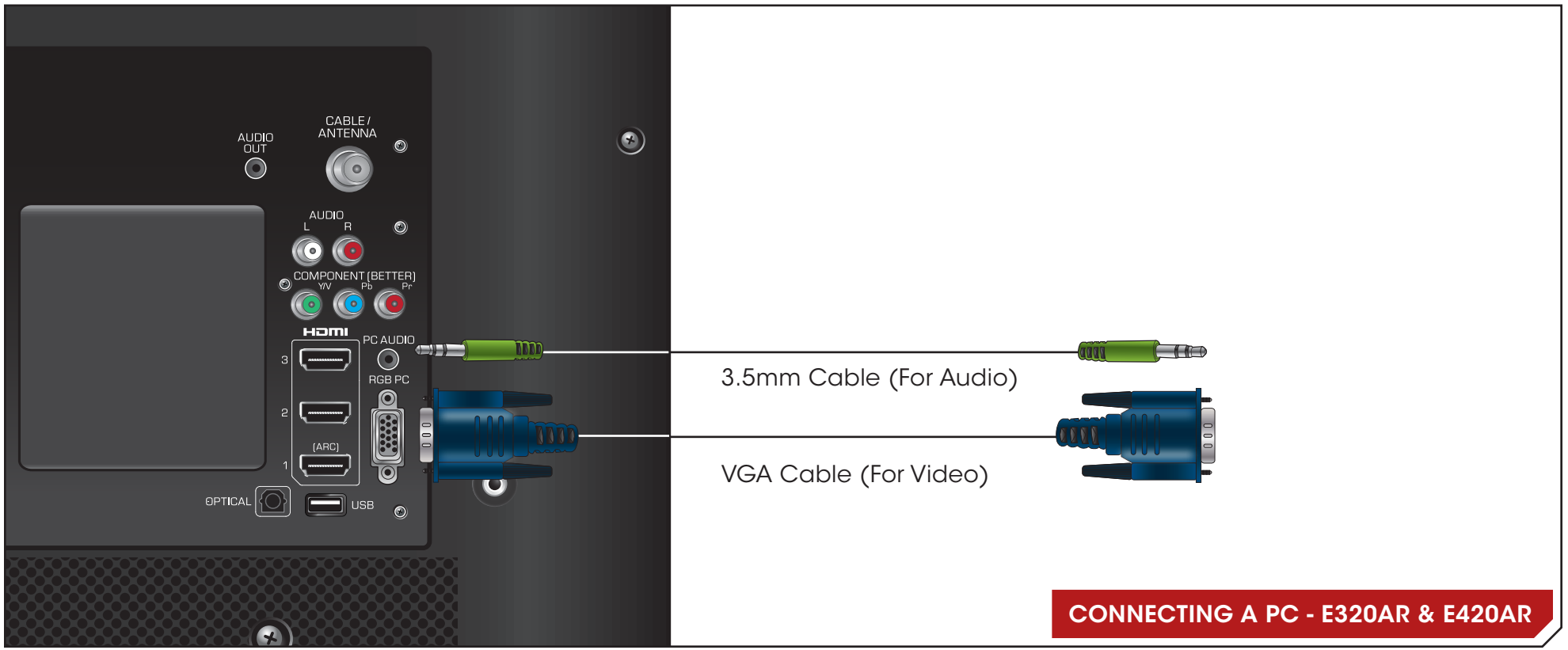
Personal Computer



CONNECTING A PC - E320AR & E420AR

CONNECTING A PC (E500AR)

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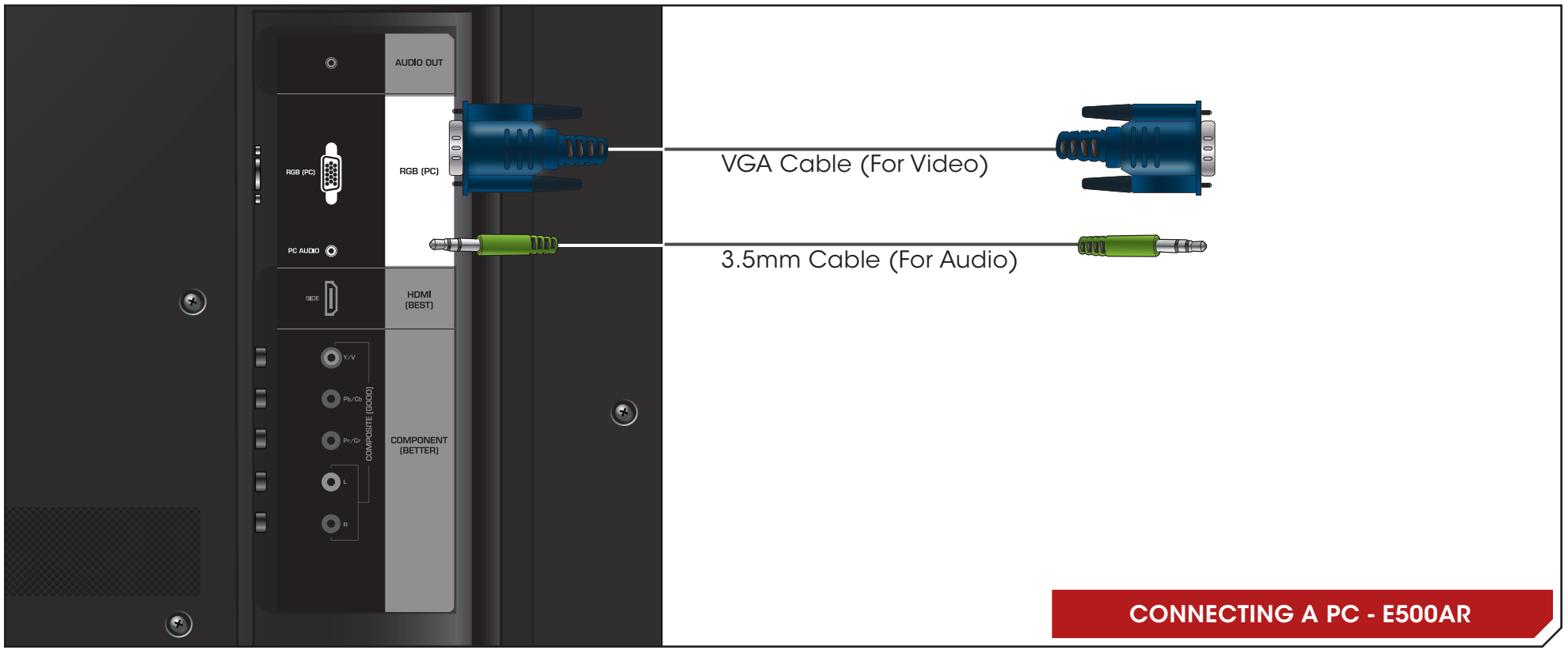
Personal Computer

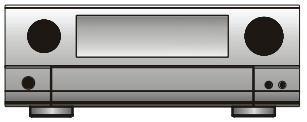


CONNECTING A PC - E500AR

CONNECTING AN AUDIO DEVICE (E240AR)

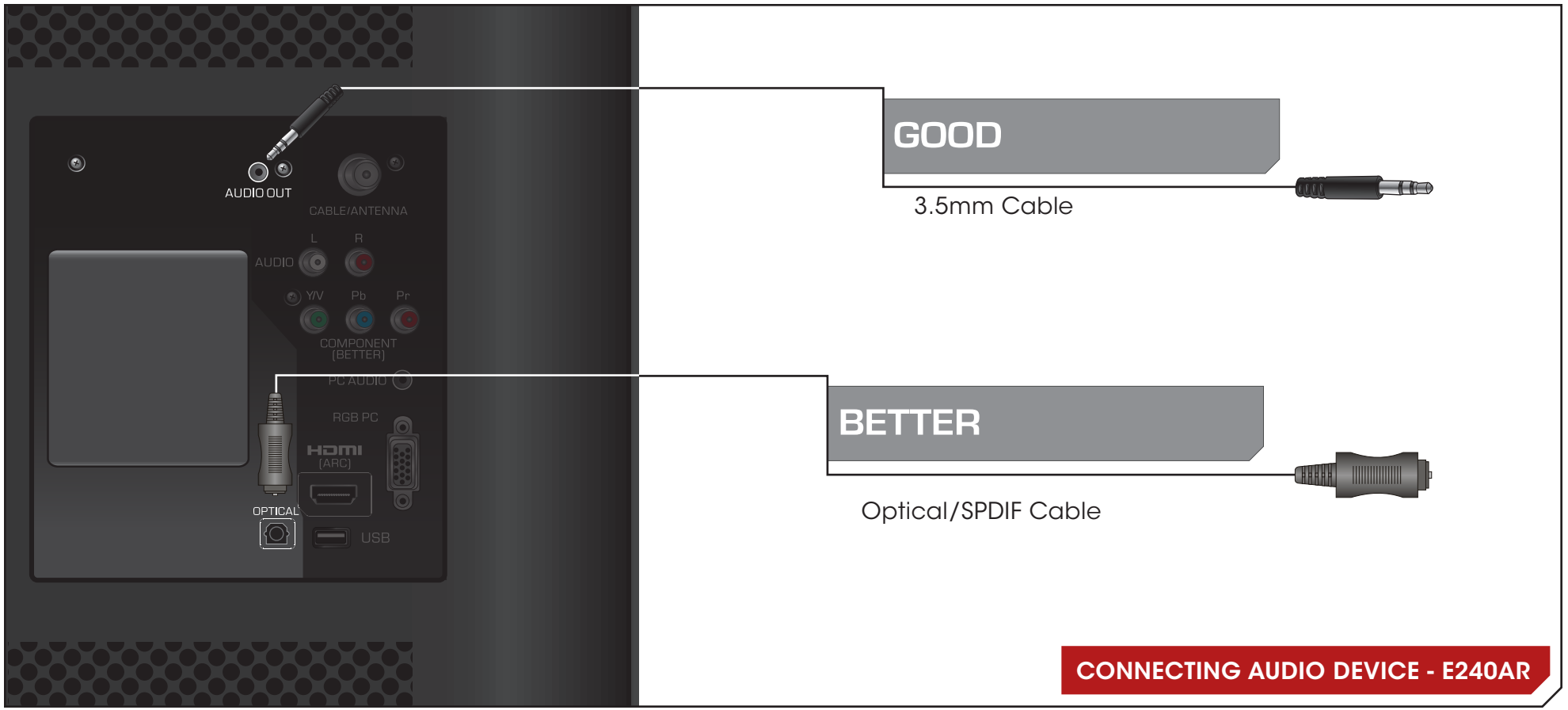
Your TV can output sound to an audio device, such as a receiver or sound bar.

1. Verify that your device has an audio port that matches an available port on the TV (Optical, 3.5mm, etc).
2. Turn the TV and your audio device off.
3. Connect the appropriate cable (not included) to the TV and the device.
4. Turn the TV and your device on.



Home Audio Receiver

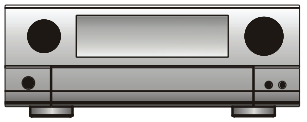
VIZIO Sound Bar



CONNECTING AN AUDIO DEVICE (E320AR & E420AR)

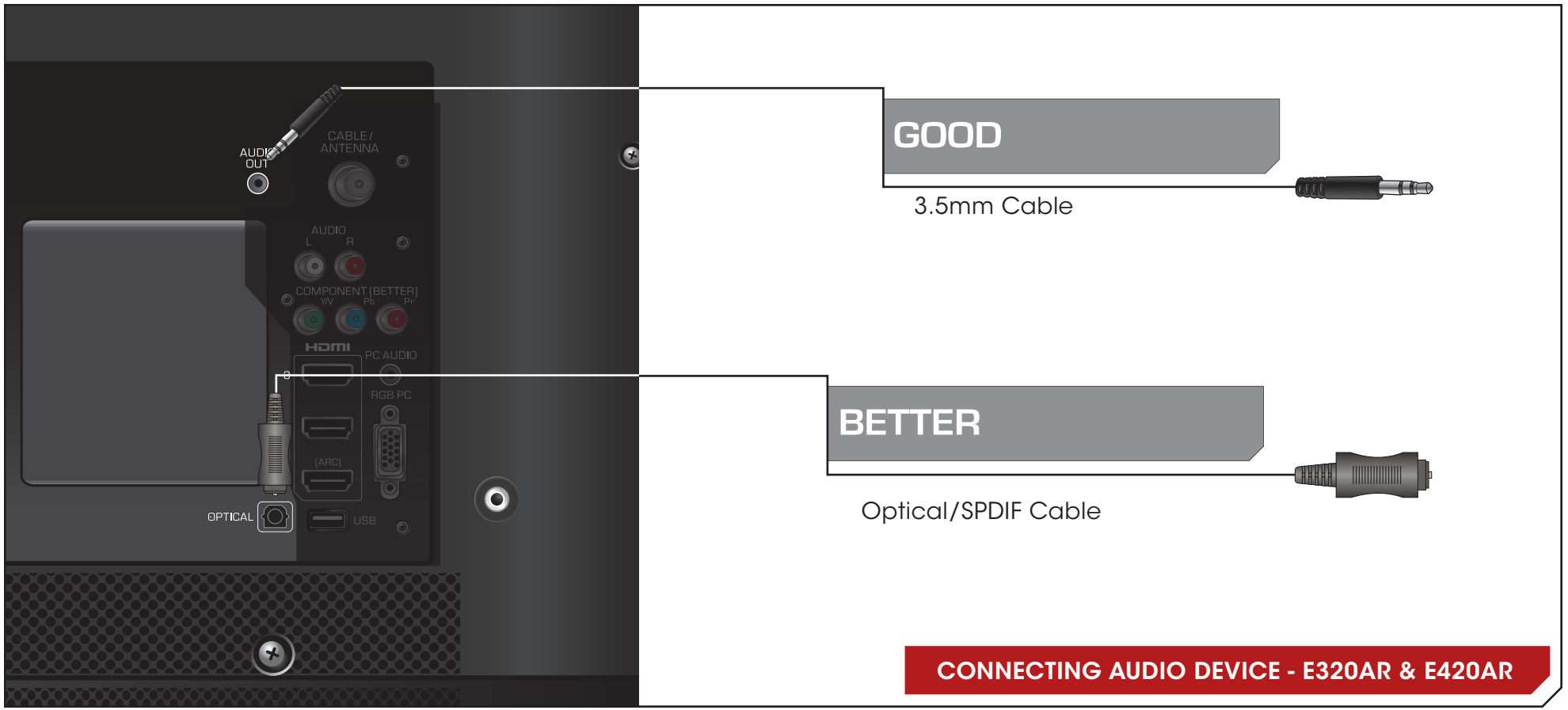
Your TV can output sound to an audio device, such as a receiver or sound bar.

1. Verify that your device has an audio port that matches an available port on the TV (Optical, 3.5mm, etc).
2. Turn the TV and your audio device off.
3. Connect the appropriate cable (not included) to the TV and the device.
4. Turn the TV and your device on.



Home Audio Receiver

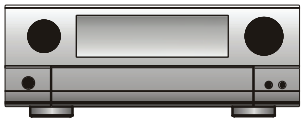
VIZIO Sound Bar



CONNECTING AN AUDIO DEVICE (E500AR)

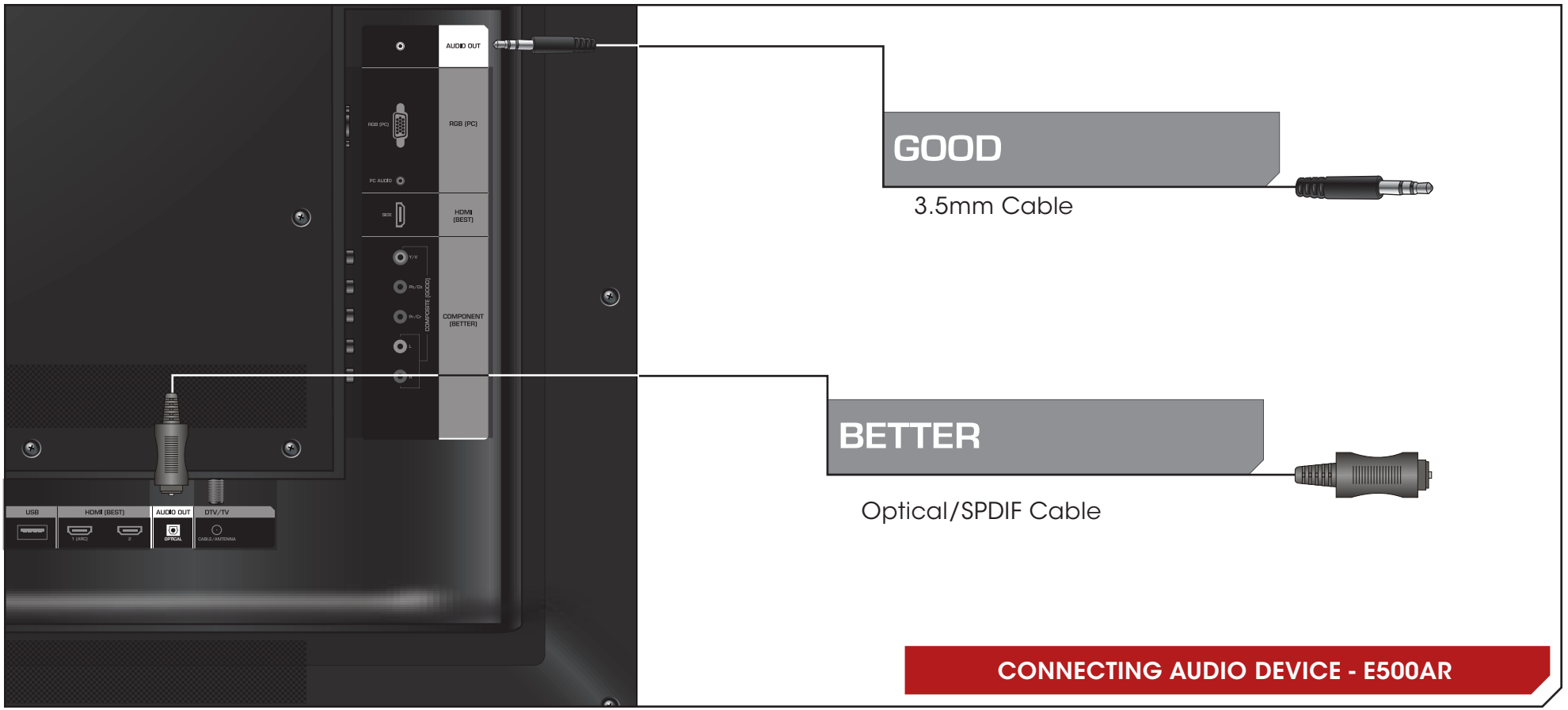
Your TV can output sound to an audio device, such as a receiver or sound bar.

1. Verify that your device has an audio port that matches an available port on the TV (Optical, 3.5mm, etc).
2. Turn the TV and your audio device off.
3. Connect the appropriate cable (not included) to the TV and the device.
4. Turn the TV and your device on.



Home Audio Receiver

VIZIO Sound Bar



CONNECTING AUDIO DEVICE - E500AR

Completing the First-Time Setup

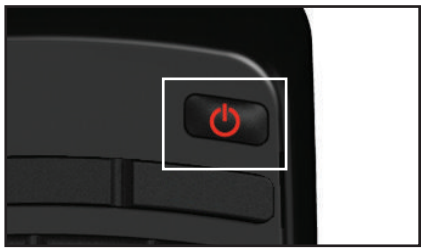
The first time you turn on the TV, the Setup App will guide you through each of the steps necessary to get your TV ready for use.

Before you begin the first-time setup:

- Your TV should be installed and the power cord should be connected to an electrical outlet.
- Your devices should be connected.

To complete the first-time setup:

1. Press the **Power** button on the remote. The TV powers on and the Setup App starts.

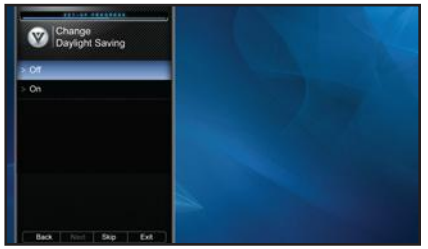


2. Use the **Up/Down Arrow** buttons on the remote to highlight **Home Mode Setup** and press **OK**.

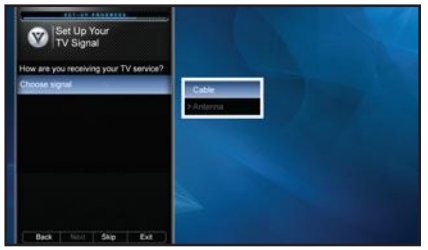
3. Use the **Up/Down Arrow** buttons on the remote to highlight your time zone and press **OK**.

4. Set up Daylight Saving time. Use the **Up/Down Arrow** buttons to highlight **On** or **Off** and press **OK**.

   Select On when Daylight Saving is in effect.



5. Press **OK**, then use the **Up/Down Arrow** buttons to select Cable or Antenna and press **OK**.



6. Highlight **Being Scan** and press **OK** to start channel scan.

7. When you have finished the channel scan, highlight **Exit to Live TV** and press **OK**.

The First-Time Setup is complete.

- Unless otherwise stated, the Menu illustrations in this user guide are based on the E240AR.
- Depending on the input source, the menu items may be different. Unless otherwise stated, the Menu illustrations in this user guide are based on TV input.

Using the On-Screen Menu

Your TV features an easy-to-use on-screen menu.

To open the on-screen menu, press the **MENU** button on the remote.

From this menu, you can:

- Change the input source
- Change the screen aspect ratio
- Set up closed captioning
- Activate the sleep timer
- Adjust the picture settings
- Adjust the audio settings
- Change TV settings
- Access USB photo slideshow
- Access the help menu

NAVIGATING THE ON-SCREEN MENU

To open the on-screen menu, press the **MENU** button on the remote.

Use the **Arrow** buttons to highlight a menu option, and press the **OK** button to select that option.

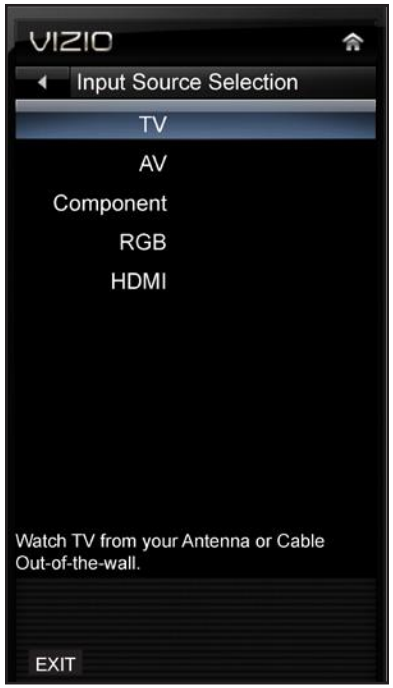
While navigating the on-screen menu, you can press the **BACK** button at any time to return to the previous menu screen. The **EXIT** button will close the on-screen menu.

CHANGING THE INPUT SOURCE

External devices such as DVD players, Blu-Ray Players, and video game consoles can be connected to your TV. To use one of these devices with your TV, you must first change the input source in the on-screen menu.

To change the input device:

1. Press the **MENU** button on the remote. The on-screen menu is displayed.
2. Use the **Arrow** buttons on the remote to highlight the **Input** icon and press **OK**. The Input Source Selection menu is displayed.
3. Use the **Up/Down Arrow** buttons on the remote to highlight the input source and press **OK**.

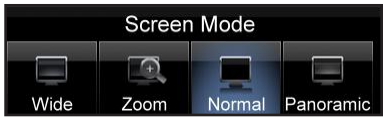


CHANGING THE SCREEN ASPECT RATIO

The TV can display images in five different modes: Wide, Zoom, Normal, Panoramic, and Stretch. Each mode displays the picture differently.

To change the screen aspect ratio:

1. Press the **MENU** button on the remote.
2. Use the **Arrow** buttons to highlight the **Wide** icon. Press **OK**.



3. Use the **Arrow** buttons to highlight your desired screen mode and press **OK**:
   - **Normal** preserves the content's original aspect ratio. Since the 4:3 aspect ratio is not large enough to fill the TV's screen, black bars are added to the left and right of the display image.
   - **Wide** stretches a 4:3 aspect ratio picture to the edges of the screen. Since the picture is being stretched, the display image may appear distorted. If the program is already formatted for widescreen viewing (1.85:1 or 2.35:1), then black bars will appear on the top and bottom of the display image (not available for RGB input).
   - **Zoom** expands images with black bars to fit the screen (not avalable for RGB input).
   - **Panoramic** expands the display image to fill the screen. Images may appear wider than intended. If you are watching widescreen (1.85:1 or 2.35:1) content, black bars will still appear on the top and bottom of the display image. **This option is only available when the TV is displaying a 480i/480p source** (not available for RGB input).
   - **Stretch** expands the display image to fill the screen. Images may appear wider than intended. If you are watching widescreen (1.85:1 or 2.35:1) content, black bars will still appear on the top and bottom of the display image. **This option is only available when the TV is displaying a 720p/1080i/1080p source.**

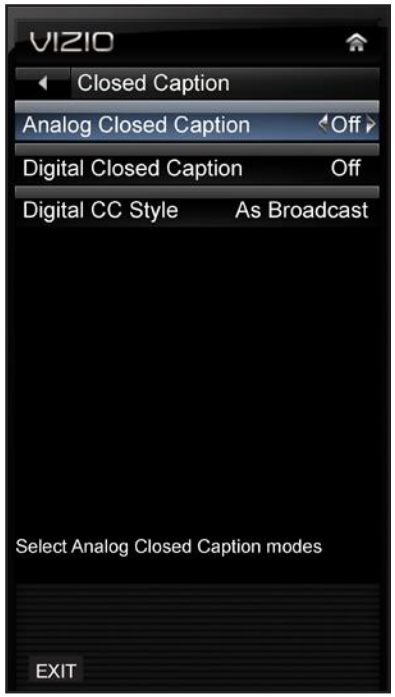
SETTING UP CLOSED CAPTIONING

Your TV can display closed captions for programs that include them. Closed captions display a transcription of a program's dialogue.

> If the program you are viewing is not being broadcast with closed captions, the TV will not display them.

To activate or deactivate closed captions:

1. Press the **MENU** button on the remote. The on-screen menu is displayed.
2. Use the **Arrow** buttons on the remote to highlight the **CC** icon and press **OK**. The Closed Caption menu is displayed.
3. Use the **Arrow** buttons on the remote to highlight the type of closed captions you wish to see:
   - **Analog Closed Caption** for analog (NTSC) TV channels.
   - **Digital Closed Caption** for digital (ATSC) TV channels.



4. After highlighting the type of closed captions you wish to see, use the **Left/Right Arrow** buttons on the remote to select the caption channel you wish to display, then press **EXIT**.

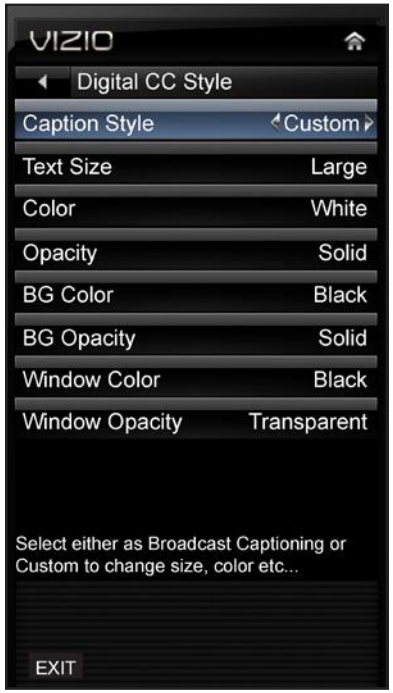
> Caption channels usually display different languages. For example, CC1 may display English captions and CC2 may display Spanish captions.

Changing the Appearance of Digital Closed Captions

Digital closed captions can be displayed according to your preference.

To change the appearance of digital closed captions:

1. From the Closed Caption menu, use the **Arrow** buttons to highlight **Digital CC Style**.
2. Use the **Left/Right Arrow** buttons on the remote to select **Custom**, then press **OK**. The Digital CC Style menu appears.
3. Use the **Up/Down Arrow** buttons on the remote to highlight the setting you wish to change, then use the **Left/Right Arrow** buttons to change the setting:
   - **Caption Style** - Choose As Broadcast to keep default settings or Custom to manually change each setting.



   - **Text Size** - Adjust the size of the text.
   - **Color** - Change the color of the text.
   - **Opacity** - Change the transparency of the text.
   - **BG Color** - Change the background color.
   - **BG Opacity** - Change the transparency of the background.
   - **Window Color** - Change the edge color.
   - **Window Opacity** - Change the edge type.
4. When you are satisfied with the appearance of the closed captions, press the **EXIT** button on the remote.

ACTIVATING THE SLEEP TIMER

When activated, the TV's sleep timer will turn the TV off after a set period of time.

To use the sleep timer:

1. Press the **MENU** button on the remote. The on-screen menu is displayed.
2. Use the **Arrow** buttons on the remote to highlight the **Sleep Timer** icon and press **OK**. The Sleep Timer menu is displayed.
3. Use the **Up/Down Arrow** buttons on the remote to highlight **Timer** and press **OK**. The Timer menu is displayed.
4. Use the **Up/Down Arrow** buttons on the remote to highlight the period of time after which you want the TV to turn off: **30, 60, 90, 120,** or **180 minutes.**
5. Press **OK**, then press **EXIT**.

Setting the Auto Power Off Feature

To help save energy, your TV is set by default to turn off after 10 minutes if no signal is being displayed on the screen. This feature can be deactivated.

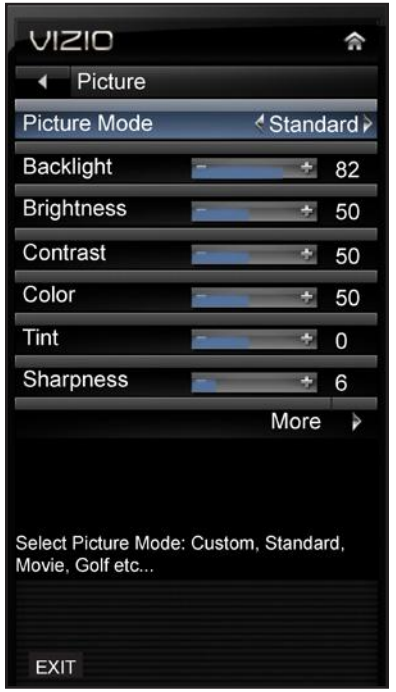
To set the Auto Power Off feature:

1. From the Sleep Timer menu, use the **Up/Down Arrow** buttons on the remote to highlight **Auto Power Off** and press **OK**. The Auto Power Off menu is displayed.
2. Highlight **Off** or **10 min.** and press **OK**. Press **Exit**.

ADJUSTING THE PICTURE SETTINGS

Your TV display can be adjusted to suit your preferences and viewing conditions.

To adjust the picture settings:



1. Press the **MENU** button on the remote. The on-screen menu is displayed.
2. Use the **Arrow** buttons on the remote to highlight the **Picture** icon and press **OK**. The Picture menu is displayed.
3. Use the **Arrow** buttons on the remote to highlight **Picture Mode**, then use the **Left/Right Arrow** buttons to change the picture mode:
   - **Standard mode** sets the various picture settings to values that will produce the best picture in the most cases. This is the recommended setting.
   - **Movie mode** sets the picture settings to values perfect for watching a movie in a dark room.
   - **Game mode** optimizes the picture settings for displaying game console output.
   - **Vivid mode** sets the picture settings to values that produce a brighter, more vivid picture.
   - **Football**, **Golf**, **Basketball**, and **Baseball** modes optimize the picture settings for their respective sports. Also try these modes for other sports.
   - **Custom** picture mode allows you to manually change each of the picture settings:

Backlight - Adjusts the brightness to affect the overall brilliance of the picture. **For the E320AR, E420AR, and E500AR this option is only available when both Ambient Light Sensor and Backlight Control are set to Off.**

Brightness - Adjusts the black level of the picture. When this setting is too low, the picture may be too dark to distinguish details. When this setting is too high, the picture may appear faded or washed out.

Contrast - Adjusts the white level of the picture. When this setting is too low, the picture may appear dark. When this setting is too high, the picture may appear faded or washed out. If the setting is too high or too low, detail may be difficult to distinguish in dark or bright areas of the picture.

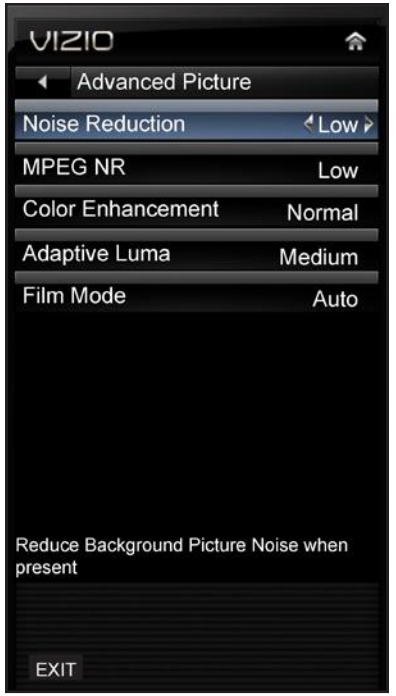
Color - Adjusts the intensity of the picture colors.

Tint - Adjusts the hue of the picture. This setting is useful in adjusting the flesh tones in the picture. If flesh appears too orange, reduce the level of color before adjusting tint.

Sharpness - Adjusts the edge sharpness of picture elements. It can be used to sharpen non-HD (high definition) content; however, it will not produce detail that does not otherwise exist.

Adjusting the Advanced Picture Settings

To adjust the advanced picture settings:



1. From the Picture menu, use the **Arrow** buttons on the remote to highlight **More**, then press **OK**.
2. Use the **Arrow** buttons on the remote to highlight **Advanced Picture**, then press **OK**. The Advanced Picture menu is displayed.
3. Use the **Arrow** buttons to highlight the setting you wish to adjust, then press **Left/Right Arrow** buttons to change the setting:
   - **Noise Reduction** - Diminishes artifacts in the image caused by the digitizing of image motion content. Select Off, Low, Medium, or High.
   - **MPEG NR** - Reduces pixelation and distortion for .mpeg files.
   - **Color Enhancement** - Reduces oversaturation of some colors and improves flesh tones. Select Off, Normal, Rich Color, Grn/Flesh, and Grn/Blue.
   - **Adaptive Luma** - Adjusts the average brightness of the picture to compensate for large areas of brightness. Select Off, Low, Medium, Strong, or Extend.
   - **Film Mode** - Optimizes the picture for watching film. Select Auto or Off.
   - **Backlight Control** - Select Off, DCR (Dynamic Contrast Ratio), or OPC. (Backlight Control setting is not available for the E240AR)

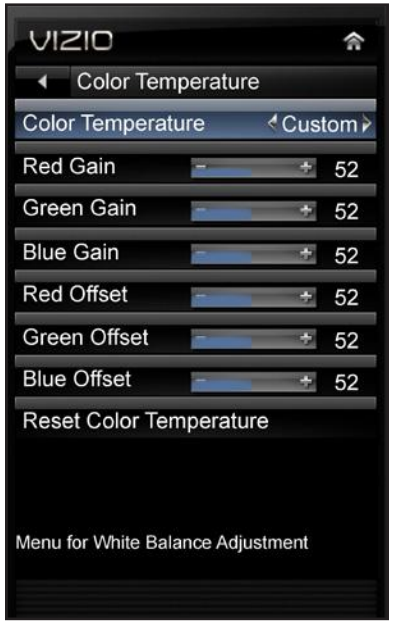
- **Ambient Light Sensor** - The ambient light sensor detects the light levels in the room and automatically adjusts the backlight for the best picture. Select Off, Low, Medium, or High. (Ambient Light Sensor setting is not available for the E240AR)

4. When you have finished adjusting the Advanced Picture settings, press the **EXIT** button on the remote.

Adjusting the Color Temperature

Adjusting the color temperature will change the "warmness" or "coolness" of the white areas of the picture.

To adjust the color temperature:



1. From the Picture Menu, use the **Arrow** buttons to highlight **More**, then press **OK**.
2. Use the **Arrow** buttons on the remote to highlight **Color Temperature**, then press **OK**. The Color Temperature menu is displayed.
3. Use the **Arrow** buttons on the remote to highlight **Color Temperature**, then use the **Left/Right Arrow** buttons to change the color temperature preset:
   - **Cool** produces a blue-hued picture.
   - **Computer** optimizes the picture for use as a PC monitor.
   - **Normal** is optimized for television viewing.
   - **Custom** allows you to manually change each of the color temperature settings:

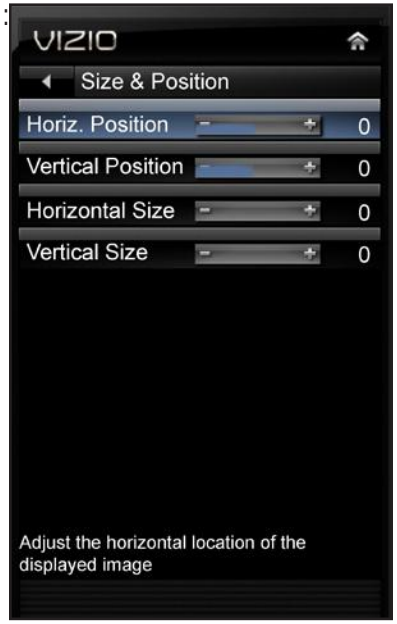
     Red/Green/Blue Gain - Adjusts the amount of each color in the display.

     Red/Green/Blue Offset - Adjusts the position of each color in the display.
4. If you want to reset the color temperatures to the factory default settings, highlight **Reset Color Temperature** and press **OK**. Then highlight **Yes** and press **OK**.
5. When you have finished adjusting the color temperature, press the **EXIT** button on the remote.

Adjusting the Picture Size and Position

When displaying an image, the size and position of the display image can be adjusted.

To adjust the picture size and position:



1. From the Picture menu, use the **Arrow** buttons on the remote to highlight **More**, then press **OK**.
2. Use the **Arrow** buttons on the remote to highlight **Size & Position**, then press **OK**. The Size & Position menu is displayed.
3. Use the **Arrow** buttons to highlight the setting you wish to adjust, then press **Left/Right Arrow** buttons to change the setting:
   - **Auto Sync** - Automatically adjusts display image to optimal size and position. (RGB input only.)
   - **Horiz. Position** - Adjusts the horizontal (left/right) position of the display image.
   - **Vertical Position** - Adjusts the vertical (up/down) position of the display image.
   - **Vertical Size** - Adjust the height of the display image. (Not available for RGB input)
   - **Horizontal Size** - Adjusts the width of the display image.
   - **Fine Tune** - Adjusts the height of the display image. (RGB input only.)
4. When you have finished adjusting the size and position, press the **EXIT** button on the remote.

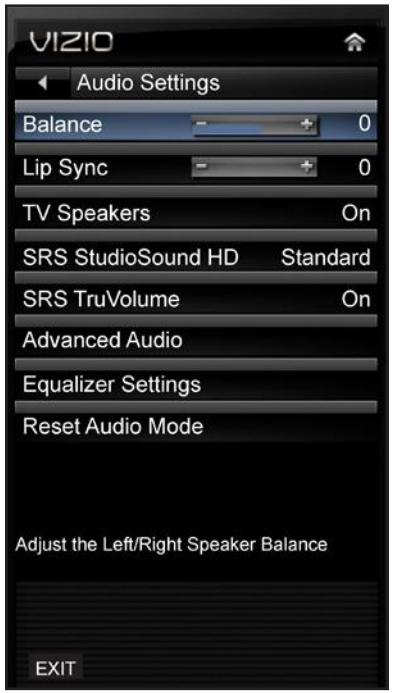
Resetting the Picture Settings

To reset the picture settings to the factory default settings:

1. From the Picture menu, use the **Arrow** buttons to highlight **More**, then press **OK**.
2. Use the **Arrow** buttons on the remote to highlight **Reset Picture Mode**, then press **OK**. The TV displays, "Are you sure you want to RESET Picture Settings to the factory defaults?"
3. Highlight **Yes** and press **OK**.
4. Press the **EXIT** button on the remote.

ADJUSTING THE AUDIO SETTINGS

To adjust the audio settings:



1. Press the **MENU** button on the remote. The on-screen menu is displayed.
2. Use the **Arrow** buttons on the remote to highlight **Audio** and press **OK**. The Audio Settings menu is displayed.
3. Use the **Arrow** buttons to highlight the setting you wish to adjust, then press **Left/Right Arrow** to change the setting:
   - **Balance** - Adjusts the loudness of the audio output from the left and right speakers.
   - **Lip Sync** - Adjusts the synchronization between the display image and the accompanying audio track.

- **TV Speakers** - Turns the built-in speakers on or off.
- **SRS StudioSound HD** - StudioSound HD™ is a feature-rich surround sound solution which delivers an immersive surround sound experience from the TV's internal speakers. Additionally, StudioSound HD completes the entertainment experience by maintaining a steady volume while watching programming and movies, providing deep, rich bass, and delivering crisp details and clear, intelligible dialog. Select Surround or Standard.
- **SRS TruVolume** - TruVolume® intelligently normalizes volume fluctuations due to television commercials or channel changes. Select On or Off.
- **Advanced Audio** - See *Adjusting the Advanced Audio Settings* on page 30.
- **Equalizer Settings** - Adjust the boost or attenuation of different frequencies. Change the equalizer presets by selecting Flat, Rock, Pop, Classical, or Jazz. To customize the equalizer settings yourself, set **EQ Mode** to Advanced, then adjust each frequency or set **EQ Mode** to Basic, then adjust **Bass** and **Treble** settings. (This setting is only available when **SRS StudioSound HD** is set to Standard)
- **Reset Audio Mode** - Restores the audio settings to the factory defaults. See *Resetting the Audio Settings on page 31*.

4. When you have finished adjusting the audio settings, press the **EXIT** button on the remote.

Adjusting the Advanced Audio Settings

To adjust the advanced audio settings:

1. From the Audio Settings Menu, use the **Arrow** buttons to highlight **Advanced Audio**, then press **OK**. The Advanced Audio menu is displayed.

2. Use the **Arrow** buttons to highlight the setting you wish to adjust, then press **Left/Right Arrow** buttons to change the setting:
   - **Digital Audio Out** - Changes the type of processing for the Optical output when connected to a home theater audio system. Select Off, Dolby Digital, or PCM.
   - **Analog Audio Out** - Sets the volume control properties for the analog 3.5mm connector when connected to a home theater audio system. Select Variable to control the external speakers' volume from the TV's volume controls, or select Fixed to control the external speakers' volume from your home theater system controls.

3. When you have finished adjusting the advanced audio settings, press the **EXIT** button on the remote.

Resetting the Audio Settings

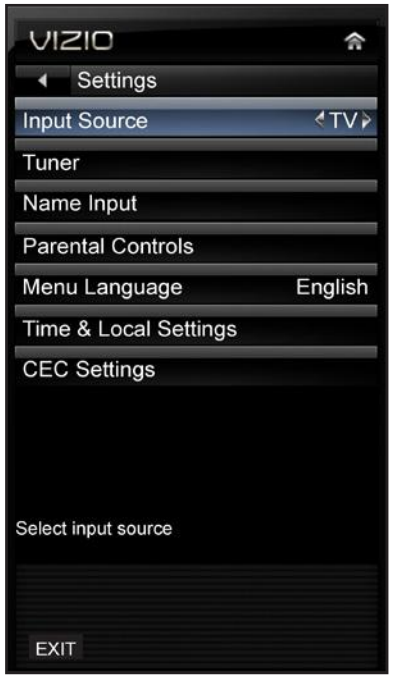
To reset the audio settings to the factory default settings:

1. Press the **MENU** button on the remote. The on-screen menu is displayed.
2. Use the **Arrow** buttons on the remote to highlight the **Audio** icon and press **OK**. The Audio Settings menu is displayed.
3. Use the **Arrow** buttons to highlight **Reset Audio Mode** and press **OK**. The TV displays, "Are you sure you want to RESET Audio Settings to the factory defaults?"
4. Highlight **Yes** and press **OK**.
5. Press the **EXIT** button on the remote.

CHANGING THE TV SETTINGS

Using the settings menu, you can:

- Change the input source
- Set up the TV tuner
- Name the TV inputs
- Turn Game Mode on or off. (Except TV input)
- Set up parental controls
- Change the on-screen menu language
- Set the time
- Adjust the CEC settings



Changing the Input Source

To quickly access the input source menu, press the **INPUT** button on the remote.

To change the input source from the Settings menu:

1. Press the **MENU** button on the remote. The on-screen menu is displayed.
2. Use the **Arrow** buttons on the remote to highlight the **Settings** icon and press **OK**. The Settings menu is displayed.
3. Highlight **Input Source** and press **OK**. The **Input Source Selection** menu is displayed.
4. Highlight the input source you want to display and press **OK**.

Setting the Tuner Mode

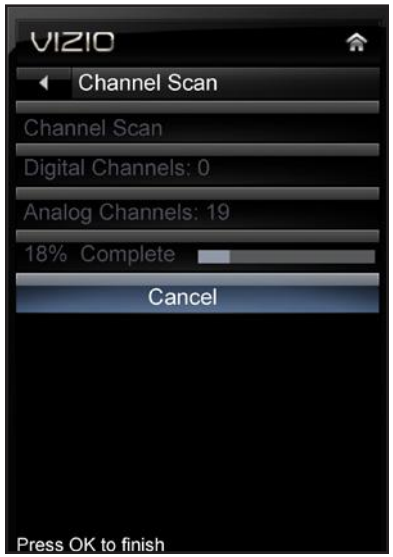
If you are using a device that is connected to the RF input, such as an external antenna or cable TV connection, you must set the tuner mode.

1. Press the **MENU** button on the remote. The on-screen menu is displayed.
2. Use the **Arrow** buttons on the remote to highlight the **Settings** icon and press **OK**. The Settings menu is displayed.
3. Highlight **Tuner** and press **OK**. The Tuner Settings menu is displayed.
4. Highlight **Tuner Mode** and use the **Left/Right Arrow** buttons to select **Antenna** or **Cable**.
5. Press the **EXIT** button on the remote.

Scanning for Channels

Before the TV can detect and display channels and their associated information, you must scan for channels. A channel scan may also be necessary when the TV has been moved to an area where different free-to-air broadcast television channels are available.

1. From the Tuner Settings menu, highlight **Auto Channel Scan** and press **OK**. The auto channel scan begins.
2. Wait until the channel scan is 100% complete. Highlight **Done** and press **OK**.
3. Press the **EXIT** button on the remote.



Adding New Channels

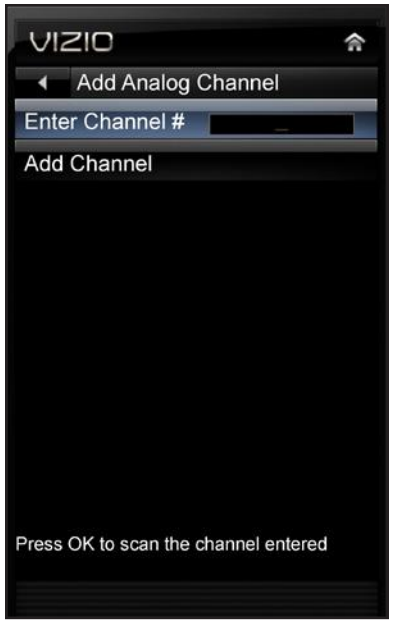
Occasionally, you may need to add a new analog channel or add a new range of channels. You can do this by using the Partial Channel Search and Add Analog Channel options.

To add a range of new channels:

1. From the Tuner Settings menu, highlight **Partial Channel Search** and press **OK**. The Partial Channel Search menu is displayed.
2. Highlight **Scan Mode** and select the type of channel you are adding: **Analog/Digital, Analog**, or **Digital**.
3. Highlight **From Channel** and enter the channel from which you want to begin the scan. (Use the **Number Pad** on the remote to enter the channel.)
4. Highlight **To Channel** and enter the channel to which you want to end the scan. (Use the **Number Pad** on the remote to enter the channel.)
5. Highlight **Start** and press **OK**. The partial channel search begins.
6. Wait until the partial channel search is 100% complete. Highlight **Done** and press **OK**.
7. Press the **EXIT** button on the remote.

To add a single new analog channel:

1. From the Tuner Settings menu, highlight **Add Analog Channel** and press **OK**. The Add Analog Channel menu is displayed.
2. Highlight **Enter Channel #** and use the **Number Pad** on the remote to enter the number of the channel you are adding.
3. Highlight **Add Channel** and press **OK**. The TV scans for the channel.
4. When the TV is done scanning for the channel, press the **EXIT** button on the remote.



Skipping Channels

After a channel scan is completed, you may find that some channels are too weak to watch comfortably. There may also be some channels you do not want to view. You can remove these channels from the TV's memory with the Skip Channel feature.

> Channels that have been removed with the Skip Channel feature can still be viewed if the channel is entered using the Number Pad. If you wish to completely block a channel from being viewed, use the parental controls. See *Using the Parental Controls* on page 35.

To remove a channel:

1. From the Tuner Settings menu, highlight **Skip Channel** and press **OK**. The Skip Channel menu is displayed.
2. For each channel you wish to remove, use the **Up/Down Arrow** buttons on the remote to highlight the channel and press **OK**. An X appears to the right of each channel you select.
3. When you have selected all of the channels you wish to remove, press the **EXIT** button on the remote.

Changing the Audio Language

Some digital free-to-air and cable channels broadcast programs in more than one language. The TV's MTS (Multichannel Television Sound) feature allows you to listen to audio in your preferred language.

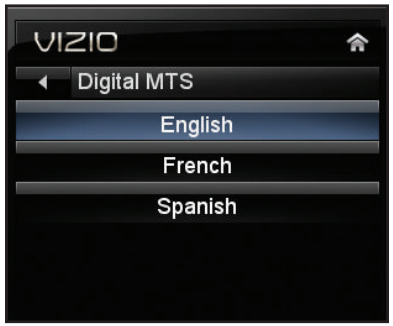
> Not all programs are broadcast in multiple languages. The MTS feature only works when the program being viewed is being broadcast in the language you select.

To use the Analog MTS feature:

1. From the Tuner Settings menu, highlight **Analog MTS** and press **OK**. The Analog MTS menu is displayed.
2. Select **Mono**, **Stereo**, or **SAP** (secondary audio programming). Press **OK**.
3. Press the **EXIT** button on the remote.

To use the Digital MTS feature:

1. From the Tuner Settings menu, highlight **Digital MTS** and press **OK**. The Digital MTS menu is displayed.
2. Select your preferred language: **English**, **French**, or **Spanish**. Press **OK**.
3. Press the **EXIT** button on the remote.



Using the Parental Controls

The TV's parental controls allow you to prevent the TV from displaying certain channels or programs without a password.

Accessing the Parental Controls Menu

To access the Parental Controls menu:

1. Press the **MENU** button on the remote. The on-screen menu is displayed.
2. Use the **Arrow** buttons on the remote to highlight the **Settings** icon and press **OK**. The Settings menu is displayed.
3. Use the **Arrow** buttons on the remote to highlight **Parental Controls** and press **OK**.
4. Enter your parental passcode. If you have not set a passcode, enter the default, **0000**. The Parental Controls menu is displayed.

To set a custom parental passcode, see *Changing the Parental Control Passcode* on page 36.

Enabling or Disabling Program Ratings

To manage program content according to its rating, you must enable the Program Rating feature.

To enable or disable the Program Rating feature:

1. From the Parental Controls menu, highlight **Rating Enable** and press **OK**. The Rating Enable menu is displayed.
2. Select **On** or **Off** and press **OK**.

Locking and Unlocking Channels

When a channel is locked, it will be inaccessible. Locking a channel is a good way to prevent children from viewing inappropriate material.

To lock or unlock a channel:

1. From the Parental Controls menu, highlight **Channel Locks** and press **OK**. The Channel Locks menu is displayed.
2. Highlight the channel you want to lock or unlock and press **OK**.
3. When a channel is **locked**, the **Lock** icon appears **locked**. The channel is not accessible unless the parental passcode is entered.
4. When a channel is **unlocked**, the **Lock** icon appears **unlocked**. The channel is accessible.

Blocking and Unblocking Content by Rating

A channel may sometimes broadcast programs that are meant for children, and at other times broadcast programs that are meant for mature audiences. You may not want to block the channel completely using a channel lock, but you may wish to block certain programs from being viewed.

When this is the case, you can use the TV's Rating Block feature to block content based on its rating.

For a list of content ratings and their definitions, visit www.tvguidelines.org.

To block or unblock content by its rating:

1. From the Parental Controls menu, highlight the content type you want to adjust and press **OK**:

   USA - TV - USA television program broadcasts.

   USA - Movie - USA movie broadcasts.

   CAN - English - Canadian English television program broadcasts.

   CAN - French - Canadian French television program broadcasts.

2. For each rating type you want to block or unblock, use the **Up/Down** and **Left/Right Arrow** buttons on the remote to highlight the rating type and press **OK**.

3. When the rating type is **blocked**, the **Lock** icon appears **locked**. Content with this and all higher ratings cannot be viewed.

4. When the rating type is **unblocked**, the **Lock** icon appears **unlocked**. Content with this and all lower ratings can be viewed.

5. If you want to block all unrated content, highlight **Block Unrated Shows** and use the **Arrow** buttons on the remote to select **On**.

6. When you are finished adjusting the rating level blocks, press the **EXIT** button on the remote.

Changing the Parental Control Passcode

If you use the parental controls, you should change the passcode to prevent children from accessing inappropriate material.

1. From the Parental Controls menu, highlight **Change PIN** and press **OK**. The Change PIN menu is displayed.

2. In the **New PIN** field, use the **Number Pad** on the remote to enter your new 4-digit parental control passcode.

3. In the **Confirm PIN** field, use the **Number Pad** on the remote to re-enter your new 4-digit parental control passcode.

4. Write down your new parental control passcode and save it in a secure location.

5. Press the **EXIT** button on the remote.

Resetting the Content Locks

To reset the content locks to the factory-default settings:

1. From the Parental Controls menu, highlight **RESET LOCKS** and press **OK**. The TV displays, "Are you sure you want to RESET ALL LOCKS SETTINGS to the factory defaults?"

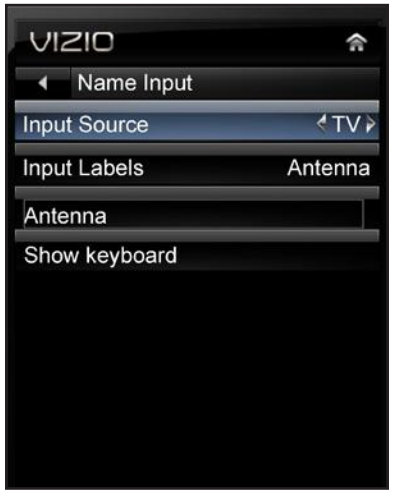
2. Highlight **Yes** and press **OK**.

3. Press the **EXIT** button on the remote.

Changing the Names of the Inputs

To make it easier to recognize the different devices attached to the inputs on your TV, you can rename the inputs. For example, if you have a DVD player connected to the Component input, you can rename that input to display "DVD Player".

To change the name of an input:



1. Press the **MENU** button on the remote. The on-screen menu is displayed.
2. Use the **Arrow** buttons on the remote to highlight the **Settings** icon and press **OK**. The Settings menu is displayed.
3. Use the **Arrow** buttons on the remote to highlight **Name Input** and press **OK**. The Name Input menu is displayed.
4. Highlight **Input Source** and press **OK**. Highlight the input you want to rename and press **OK**.
5. If you would like to use a preset input label, highlight **Input Labels** and press **OK**. Highlight the input label you want to use and press **OK**.

   If you would like to name the input yourself, highlight the field below Input Labels and press **OK**. Enter your custom label using the on-screen keyboard. Highlight **OK** and press **OK**. (You can also display the on-screen keyboard by highlighting **Show Keyboard** and press **OK**)
6. When you have finished naming your input, press the **EXIT** button on the remote.

Changing the On-Screen Menu Language

Your TV can display the on-screen menu in different languages.

To change the on-screen menu language:

1. Press the **MENU** button on the remote. The on-screen menu is displayed.
2. Use the **Arrow** buttons on the remote to highlight the **Settings** icon and press **OK**. The Settings menu is displayed.
3. Use the **Arrow** buttons on the remote to highlight **Menu Language** and press **OK**. The Menu Language menu is displayed.
4. Highlight your preferred language (**English**, **French**, or **Spanish**) and press **OK**.
5. Press the **EXIT** button on the remote.

Setting the Time and Local Settings

To ensure the correct time is displayed when you press the INFO button, set the TV's time zone:

1. Press the **MENU** button on the remote. The on-screen menu is displayed.
2. Use the **Arrow** buttons on the remote to highlight the **Settings** icon and press **OK**. The Settings menu is displayed.
3. Use the **Arrow** buttons on the remote to highlight **Time & Local Settings** and press **OK**. The Time & Local Settings menu is displayed.
4. Highlight **Time Zone** and press **OK**. The Time Zone menu is displayed.
5. Highlight your time zone and press **OK**.

6. Highlight **Daylight Saving** and press **OK**. The Daylight Saving menu is displayed. Choose **On** if daylight savings is in effect, or **Off** if it is not.
7. Highlight **Postal Code**. Enter your ZIP code using the keypad on the remote, then press **OK**.
8. Press the **EXIT** button on the remote.

Adjusting the CEC Settings

The CEC function on your TV enables you to control HDMI-connected devices with the included remote without any additional programming.

> Not all HDMI devices support CEC. See your device's user manual for details.

To enable, disable, or adjust CEC settings:

1. Press the **MENU** button on the remote. The on-screen menu is displayed.
2. Use the **Arrow** buttons on the remote to highlight the **Settings** icon and press **OK**. The Settings menu is displayed.
3. Use the **Arrow** buttons on the remote to highlight **CEC Settings** and press **OK**. The CEC Settings menu is displayed.
4. Use the **Arrow** and **OK** buttons to adjust each setting:
   - **CEC Function** - To use CEC, you must select **On**.
   - **System Audio Control** - When system audio control is on, you can control your device's audio using the TV's remote control.
   - **Device Discovery** - Use this function to determine if your device is connected and supports CEC.
5. Press the **EXIT** button on the remote.

USING THE HELP MENU

You can use the TV's Help menu to:

- Display system information
- Reset the TV settings
- Restore the TV to its factory default settings
- Start setup wizard

Displaying System Information

To display a summary of the TV settings:

1. Press the **MENU** button on the remote. The on-screen menu is displayed.
2. Use the **Arrow** buttons on the remote to highlight the **Help** icon and press **OK**. The Help menu is displayed.
3. Highlight **System Info** and press **OK**.
4. Use the **Up/Down Arrow** buttons to scroll through the system information.
5. When you are finished reviewing the system information, press the **EXIT** button on the remote.

Resetting the TV Settings

To reset the TV's picture and audio settings:

1. Press the **MENU** button on the remote. The on-screen menu is displayed.
2. Use the **Arrow** buttons on the remote to highlight the **Help** icon and press **OK**. The Help menu is displayed.
3. Highlight **Reset TV Settings** and press **OK**. The TV displays, "Are you sure you would like to Restore Defaults? This will erase any custom settings."
4. Highlight **Yes** and press **OK**.
5. Press the **EXIT** button on the remote.

Restoring the TV to Factory Default Settings

All of the on-screen menu settings can be reset to the factory defaults.

> If you restore the TV to the factory default settings, all changes you have made to the settings will be lost!

To restore the TV to its factory default settings:

1. Press the **MENU** button on the remote. The on-screen menu is displayed.
2. Use the **Arrow** buttons on the remote to highlight the **Help** icon and press **OK**. The Help menu is displayed.
3. Highlight **Clear Memory (Factory Default)** and press **OK**.
4. Enter your parental control passcode. If you have not yet set up a parental passcode, enter the default, **0000**.

   The TV displays, "Are you sure you would like to Restore Defaults? This will erase any custom settings."
5. Highlight **Yes** and press **OK**.
6. Wait for the TV to turn off. The TV will turn back on shortly afterward and the Setup App will begin.

Using Setup Wizard

The TV's Setup App can be used to easily set up the TV tuner.

To start Setup Wizard:

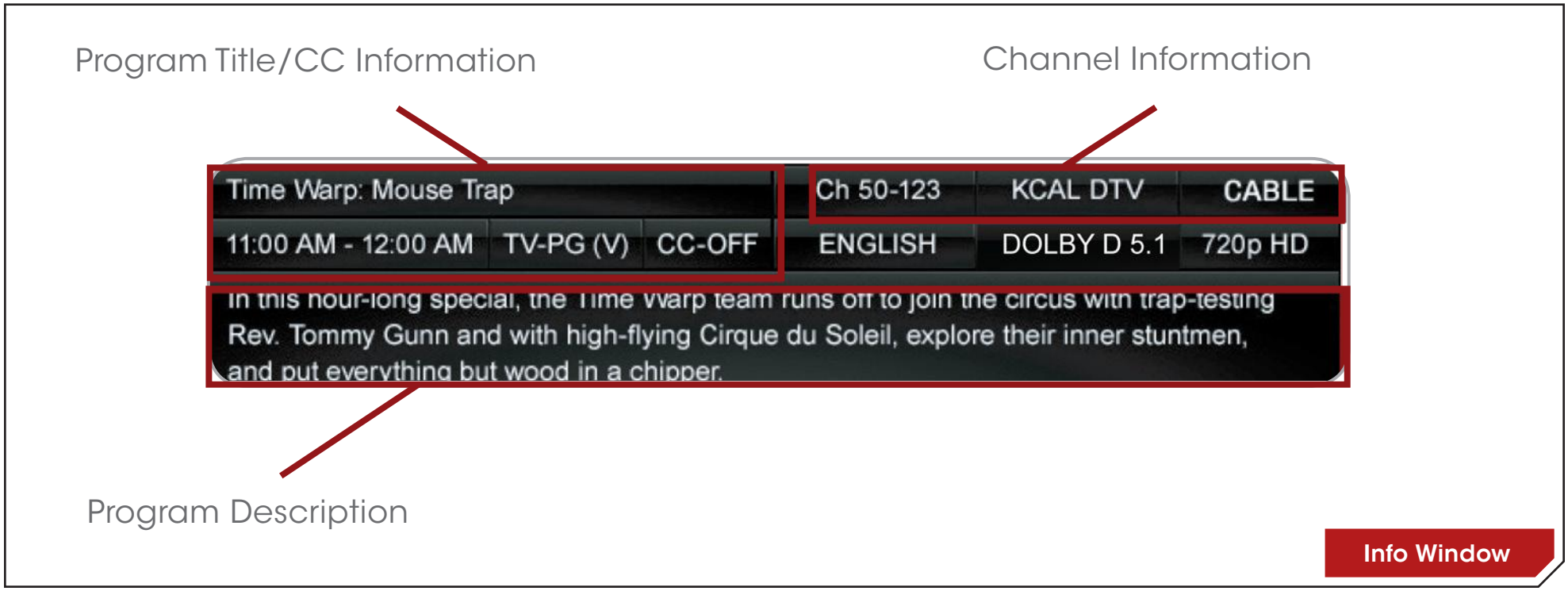
1. Press the **MENU** button on the remote. The on-screen menu is displayed.
2. Use the **Arrow** buttons on the remote to highlight the **Help** icon and press **OK**. The Help menu is displayed.
3. Highlight **Start Setup Wizard** and press **OK**.
4. Enter your parental control passcode. If you have not yet set up a parental passcode, enter the default, **0000**.

   The TV displays, "Are you sure you want to RESET SETUP WIZARD?"
5. Highlight **Yes** and press **OK**. The Setup App will begin.

USING THE INFO WINDOW

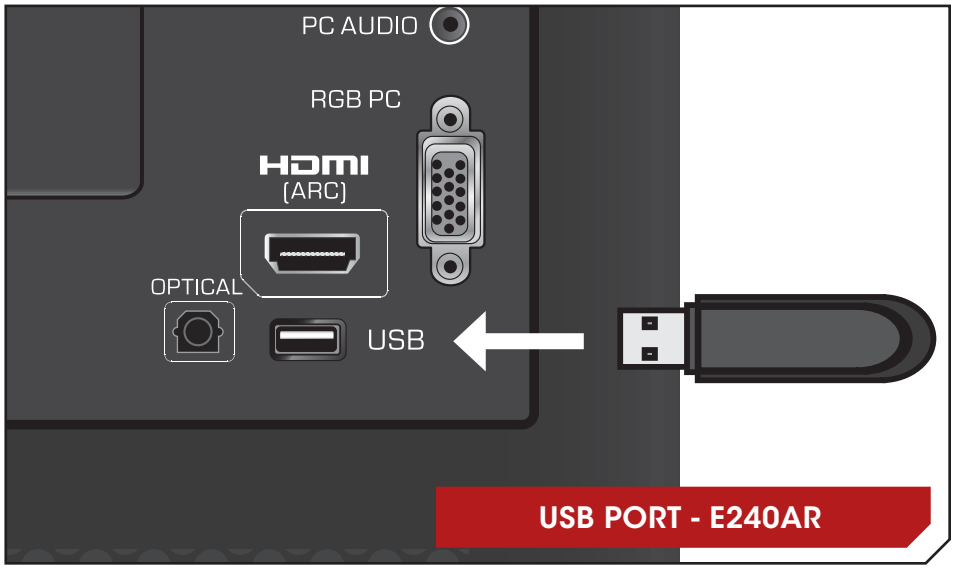
The Info Window can be displayed by pressing the INFO or GUIDE button on the remote:

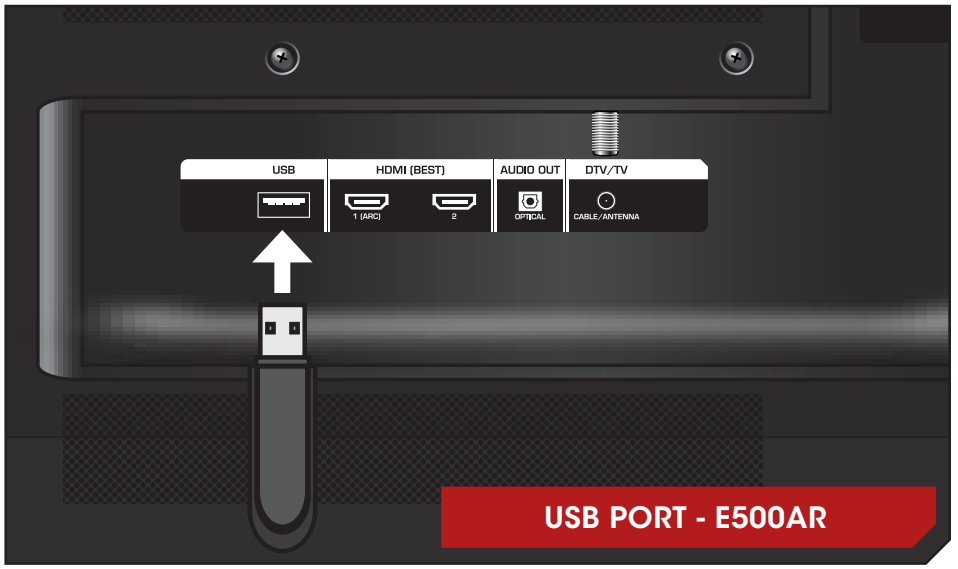
- Press the INFO or GUIDE button one time to display channel and input information.
- Press the INFO or GUIDE button two times to display the program title and closed captioning information.
- Press the INFO or GUIDE button three times to display the program description.

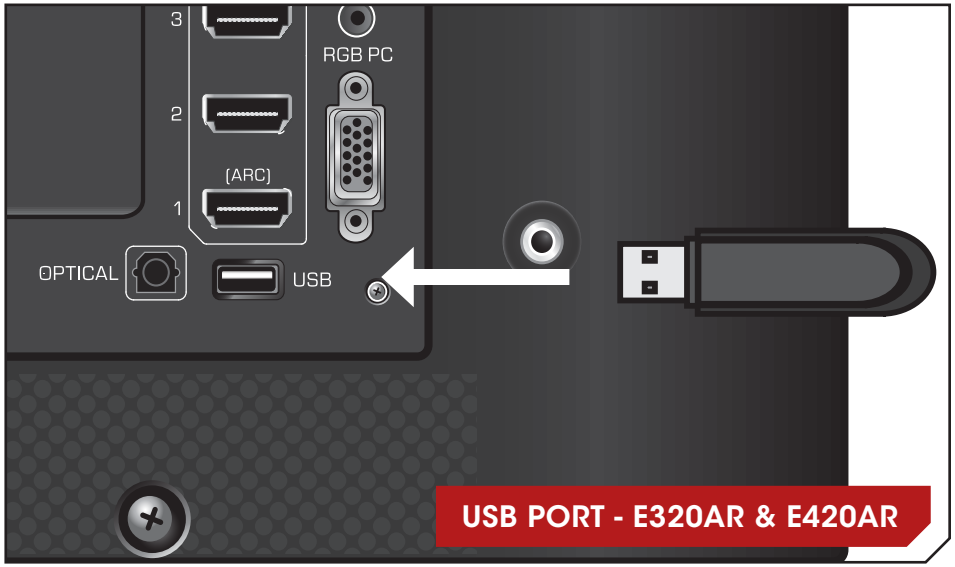


USING THE USB PHOTO SLIDESHOW

The USB port on your TV allows you to connect a USB thumb drive and view a photo slideshow.







Connecting a USB Thumb Drive to the TV

1. Turn the TV off. Connect your USB thumb drive to the USB port on the back of the TV.
2. Press the **Power/Standby** button on the remote or touch the **Power** control on the side of the TV to turn it on.
3. The TV displays "USB media detected. Browse content?". Highlight **Yes** and press **OK** to play USB media.

> ⚠ Do not remove the USB thumb drive while the TV is on. Doing so may damage the drive.

Playing USB Media

To play USB media, you must first save your images onto a USB thumb drive.

Remember:

- The USB thumb drive must be formatted as FAT32.
- Files on the USB thumb drive must end in a supported file extension (.jpg).
- The player is not designed to play media from external hard drives or mp3 players.

To play your USB media:

1. Connect your USB thumb drive to the USB port on the back of the TV.
2. Press the **V Button** on the remote.
3. Highlight **USB1: MyFlashDrive** and press **OK**.
4. Highlight the type of media you wish to display: **Photo**. Press **OK**.
5. Use the **Arrow** buttons to highlight the file you want to display. Press **OK**. The Modify Photo menu is displayed.
6. Highlight **Start Slideshow** and press **OK** to start slideshow.

You can display your photos in fullscreen. Select the photo, press **OK**, then highlight **Fullscreen** and press **OK**.

Back Button
Highlight this button and press **OK** if you would like to return to the previous screen.

Back Button
Highlight and press **OK** to return to left column.

Current Folder
Displays the folder path.

Folder Contents
This area displays the contents of the currently selected folder. You can browse between files using the **Arrow** and **OK** buttons on the remote.

Connected Source
Displays connected USB device.

Current Folder

Start Fullscreen Slideshow

Sort by Name or Date

View Thumbnails or Folders

Adjust Slideshow Settings

Photo Infomation
Displays name, resolution, and file size for currently selected photo.

Page Information
If your USB thumb drive has more files than can be displayed on a single screen, the page information is displayed here.

DO YOU HAVE QUESTIONS?

LET US HELP!

YOUR PRODUCT INCLUDES FREE LIFETIME TECH SUPPORT

The VIZIO support team is highly trained and is based in the United States.

We can help with:

- New Product Setup
- Connecting Your Devices
- Technical Problems
- And More

Phone: (877) 878-4946 (TOLL-FREE)
Email: techsupport@VIZIO.com
Web: www.VIZIO.com/support

Hours of operation:
Monday - Friday: 5 AM TO 9 PM (PST)
Saturday - Sunday: 8 AM TO 4 PM (PST)

We speak English • Se habla Español • Nous parlons Français

The TV displays "No Signal."

- Press the **INPUT** button on the remote control to select a different input source.
- If you are using cable TV, satellite, or antenna connected directly to the TV, scan for channels. See *Scanning for Channels* on page 32.

There is no power.

- Ensure the TV is plugged into a working electrical outlet.
- Press the **Power/Standby** button on the remote or on the side of the TV to turn the TV on.

The power is on, but there is no image on the screen.

- Ensure all cables are securely attached to the TV.
- Ensure all devices are connected correctly. Devices differ; see your device's user manual for details.
- Adjust Brightness, Contrast, or Backlight.
- Press the **INPUT** button on the remote to select a different input source.

There is no sound.

- Press Volume Up on the remote control.
- Press the **MUTE** button on the remote to ensure mute is off.
- Check the audio settings. See *Adjusting the Audio Settings* on page 29. Ensure the speakers are set to On.
- Check the audio connections of external devices (Blu-ray player, game console, cable/satellite box) that are connected to the TV.
- If you are using an antenna, the signal strength of the channel may be low. Ensure your antenna is connected securely to the TV and move the antenna around the room or close to a window for the best signal.

The colors on the TV don't look right.

- Adjust the Color and Tint settings in the Picture menu. See *Resetting the Picture Settings on page 29.*
- Reset the picture settings. See *Resetting the Picture Settings* on page 29.
- Check all cables to ensure they are securely attached.

The buttons on the remote aren't working.

- Ensure you are only pressing one button at a time.
- Point the remote directly at the TV when pressing a button.
- Replace the remote batteries with new ones. See *Replacing the Batteries* on page 12.

The image quality is not good.

- For the best image quality, view high-definition programs using digital sources. Connect your devices with HDMI cables.
- If you are using an antenna, the signal strength of the channel may be low. Ensure your antenna is connected securely to the TV and move the antenna around the room or close to a window for the best signal.

The picture is distorted.

- Nearby electrical devices may be interfering with the TV. Separate the TV from electrical appliances, cars, or flourescent lights.
- Ensure all cables are securely attached.

The display image does not cover the entire screen.

- If you are in RGB mode (computer), ensure that H-Size and V-Position in the on-screen menu are set correctly.
- If you are using TV, AV, or Component with 480i input, press the **WIDE** button on the remote to change the screen mode.

The TV has pixels (dots) that are always dark or always lit.

- Your HDTV is precision-manufactured using an extremely high level of technology. However, sometimes pixels may not display correctly. These types of occurences are inherent to this type of product and do not constitute a defective product.

I see "noise" or static on the screen.

- When your TV's digital capabilities exceed a digital broadcast signal, the signal is up-converted (improved) to match your TV's display capabilities. This up-converting can sometimes cause irregularities in the image.
- If you are using an antenna, the signal strength of the channel may be low. Ensure your antenna is connected securely to the TV and move the antenna around the room or close to a window for the best signal.

When I change input source, the volume changes.

- The TV remembers the volume level on each input source. If the volume level on the new input source is higher or lower than the level on the source you switch from, the difference may be noticable.
- Use the Volume Up/Down buttons on the remote to adjust the volume.

When I change input source, the display image changes size.

- The TV remembers the viewing mode on each input source. If the viewing mode on the new input source differs from the one on the input source you switch from, the difference may be noticable.
- See *Changing the Screen Aspect Ratio on page 24.*

Specifications

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	E240AR	E320AR	E420AR	E500AR
Screen Size:	24″ Class	32″ Class	42″ Class	50″ Class
Viewable Area:	24.00″	31.50″	42.00″	50.00″
Dimensions w/ Stand: **w/o Stand:**	22.90 x 15.33 x 4.71″ 22.90 x 14.31 x 2.13″	30.39 x 20.31 x 7.85″ 30.39 x 18.88 x 3.86″	39.39 x 25.44 x 9.22″ 39.39 x 24.01 x 3.80″	45.51 x 28.97 x 9.42″ 45.51 x 27.62 x 3.90″
Weight w/ Stand: **w/o Stand:**	7.58 lbs 7.05 lbs	18.08 lbs 17.20 lbs	26.45 lbs 25.48 lbs	40.79 lbs 37.70 lbs
TV Type:	Edge-Lit LED	CCFL	CCFL	CCFL
Refresh Rate:	60 Hz	60 Hz	60 Hz	60 Hz
Maximum Resolution:	1366 x 768	1366 x 768	1920 x 1080	1920 x 1080
Pixel Pitch:	.389 mm x .389 mm	.511 mm x .511 mm	.484 mm x .484 mm	.570 x .570
Dynamic Contrast Ratio:	-	100,000:1	100,000:1	100,000:1
Response Time:	6.5 ms	8.5 ms	6.5 ms	8 ms
Brightness:	250 nits	350 nits	300 nits	350 nits
Viewing Angle:	178° (H) / 178° (V)	176° (H) / 176° (V)	176° (H) / 176° (V)	176° (H) / 176° (V)
HDMI Inputs:	1	3	3	3
Component Video Inputs:	1	1	1	1
Composite Inputs:	1 (Shared w/Component)	1 (Shared w/Component)	1 (Shared w/Component)	1 (Shared w/Component)
RF Antenna Input:	1	1	1	1
USB 2.0 Ports:	1	1	1	1
RGB Inputs:	1	1	1	1
Audio Outputs:	3.5mm Stereo Optical Digital	3.5mm Stereo Optical Digital	3.5mm Stereo Optical Digital	3.5mm Stereo Optical Digital

	E240AR	E320AR	E420AR	E500AR
OSD Language:	English, Spanish, French	English, Spanish, French	English, Spanish, French	English, Spanish, French
Ambient Light Sensor:	No	Yes	Yes	Yes
Remote Control Model:	XRT010	XRT010	XRT010	XRT010
Certifications:	UL, CUL, FCC Class B, HDMI 1.4, Dolby Digital	UL, CUL, FCC Class B, HDMI 1.4, Dolby Digital	UL, CUL, FCC Class B, HDMI 1.4, Dolby Digital	UL, CUL, FCC Class B, HDMI 1.4, Dolby Digital
Compliance:	Energy Star	Energy Star	Energy Star	Energy Star
Voltage Range:	100-130 VAC @ 50/60 Hz	100-130 VAC @ 50/60 Hz	100-130 VAC @ 50/60 Hz	100-130 VAC @ 50/60 Hz
Power Consumption:	26.30 W	51.25 W	69.16 W	89.34 W
Standby Power:	<1W	<1W	<1W	<1W
Zero Bright Pixel Guarantee:	Yes	Yes	Yes	Yes

Limited Warranty

C

ON PARTS AND LABOR
Covers units purchased as new in United States and Puerto Rico Only. VIZIO 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, VIZIO will either repair or replace the Product at its sole option and discretion.

To obtain warranty service, contact VIZIO Technical Support via e-mail: TechSupport@VIZIO.com or via phone at 877 MY VIZIO (877.698.4946) from 6:00AM to 9:00PM Monday through Friday and 8:00AM to 4:00PM Saturday and Sunday, Pacific Time, or visit www.VIZIO.com. PRE-AUTHORIZATION MUST BE OBTAINED BEFORE SENDING ANY PRODUCT TO A VIZIO 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 VIZIO'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 greater.

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

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

Limitations and Exclusions
VIZIO's one-year limited warranty only covers defects in materials and workmanship. This warranty does not cover, for example: 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 a VIZIO 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 sold "AS IS", "FACTORY RECERTIFIED", or by a non-authorized reseller.

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

CHECK WWW.VIZIO.COM FOR THE MOST CURRENT VERSION.

Personal Data
If your VIZIO product is capable of storing personal data and other information, ALL CONTENTS AND INFORMATION WILL BE DELETED IN THE COURSE OF SOME IN-HOME AND ALL SHIP-IN WARANTY SERVICE. If this occurs, your product will be restored to you configured as originally purchased. You will be responsible for restoring all applicable data and passwords. Recovery and reinstallation of user data is not covered under this Limited Warranty. In order to protect your personal information, VIZIO recommends that you always clear all personal information from the unit before it is serviced, regardless of the servicer.

Zero Bright Pixel Defect Guarantee
This policy covers "zero bright pixel" defects for the duration of the limited "ONE YEAR WARRANTY" on select new product purchases. To determine if this guarantee applies to your product, refer to the "DETAILS" tab of the model's product information page (www.VIZIO.com) or look for the "zero bright pixel" guarantee on the box.

FCC Class B Radio Interference Statement

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 or more of the following measures:

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

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) this device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

Notice

1. The changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.
2. Shielded interface cables and AC power cord, if any, must be used in order to comply with the emission limits.
3. The manufacturer is not responsible for any radio or TV interference caused by unauthorized modification to this equipment. It is the responsibilities of the user to correct such interference.

FCC warning

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.

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