

VIZIO



USER MANUAL

Model: E320-B0



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.



For DTS patents, see

<http://patents.dts.com>.

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

Lightning Protection

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

Power Lines

Do not locate the antenna near overhead light or power circuits, or where it could fall into such power lines or circuits. Remember, the screen of the coaxial cable is intended to be connected to earth in the building installation.

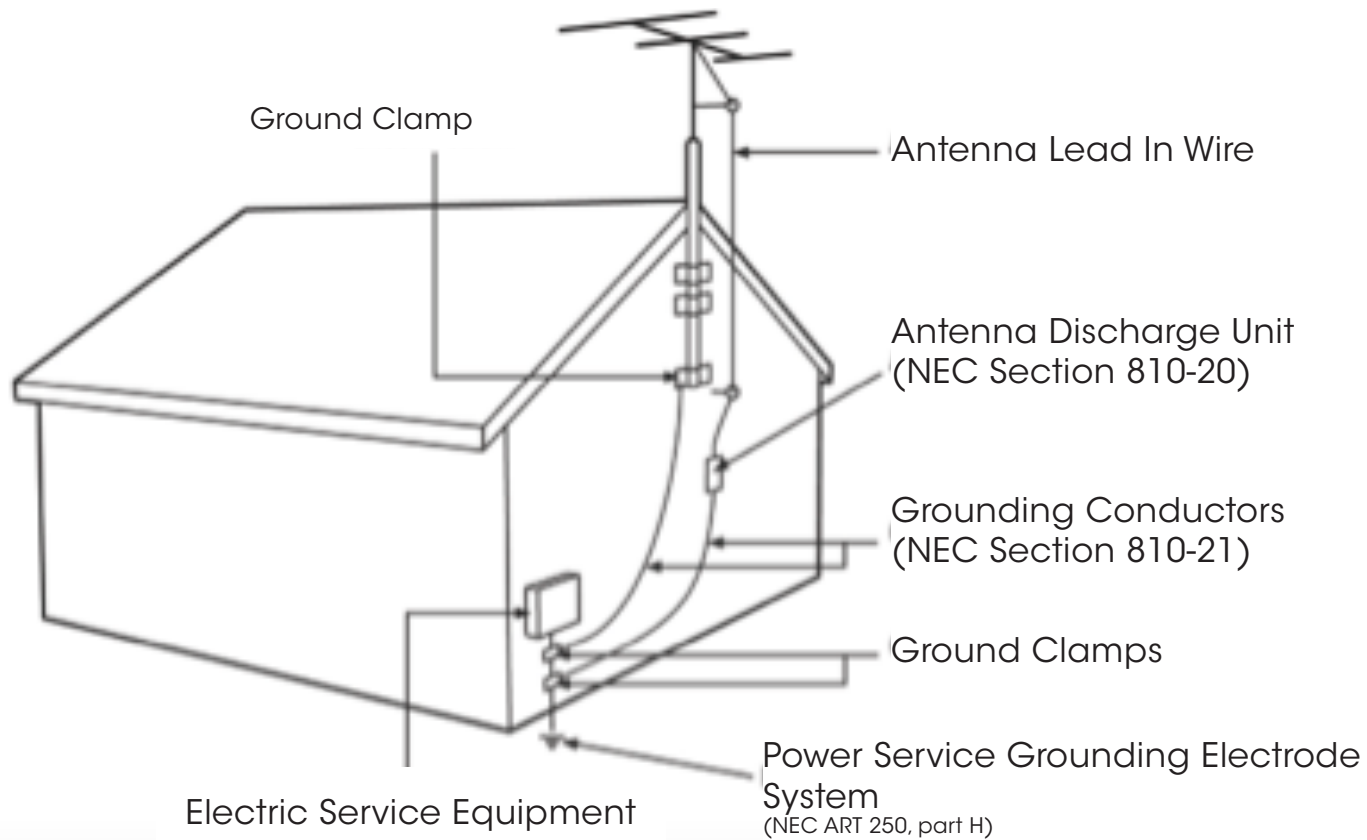


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INSPECTING THE PACKAGE CONTENTS

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 LED HDTV with Stand



Remote Control with Batteries



Quick Start Guide



Power Cord



1 x M4 8mm Phillips Screw

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

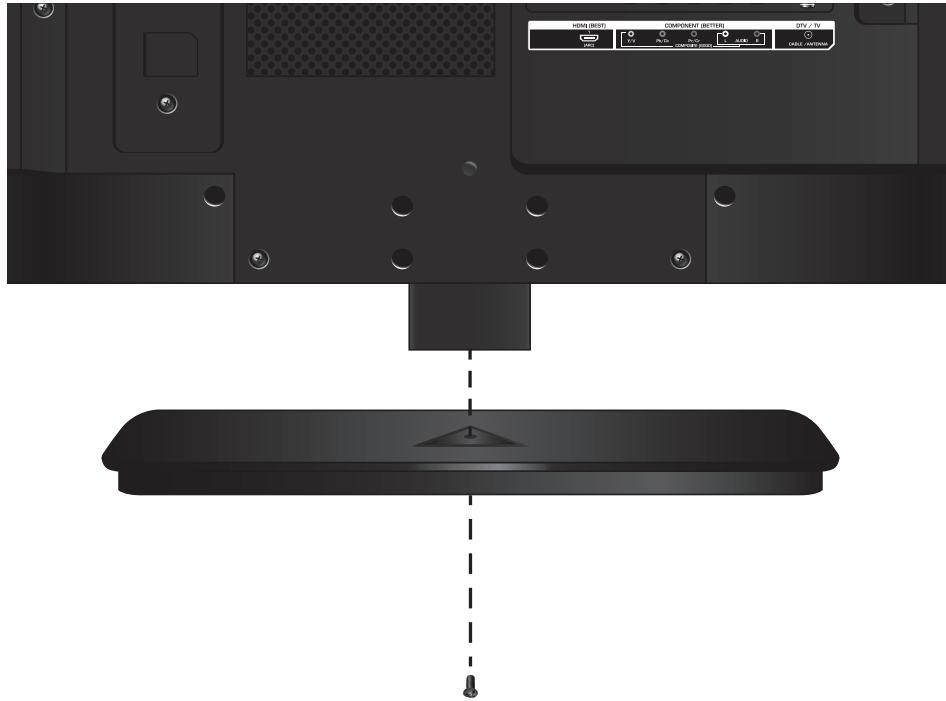
Your TV includes a stand designed to support the weight of the TV and keep it from falling over. However, the TV can still fall over if:

- 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 base:



1. Place the TV screen-down on a certain, flat surface. To prevent scratches or damage to the screen, place the TV on a soft surface, such as a blanket.
2. Align the base with the neck and tighten the hex screw into the base with the included hex wrench.
3. Move the TV with attached stand into an upright position and place on a flat, level, and stable surface.
4. 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.

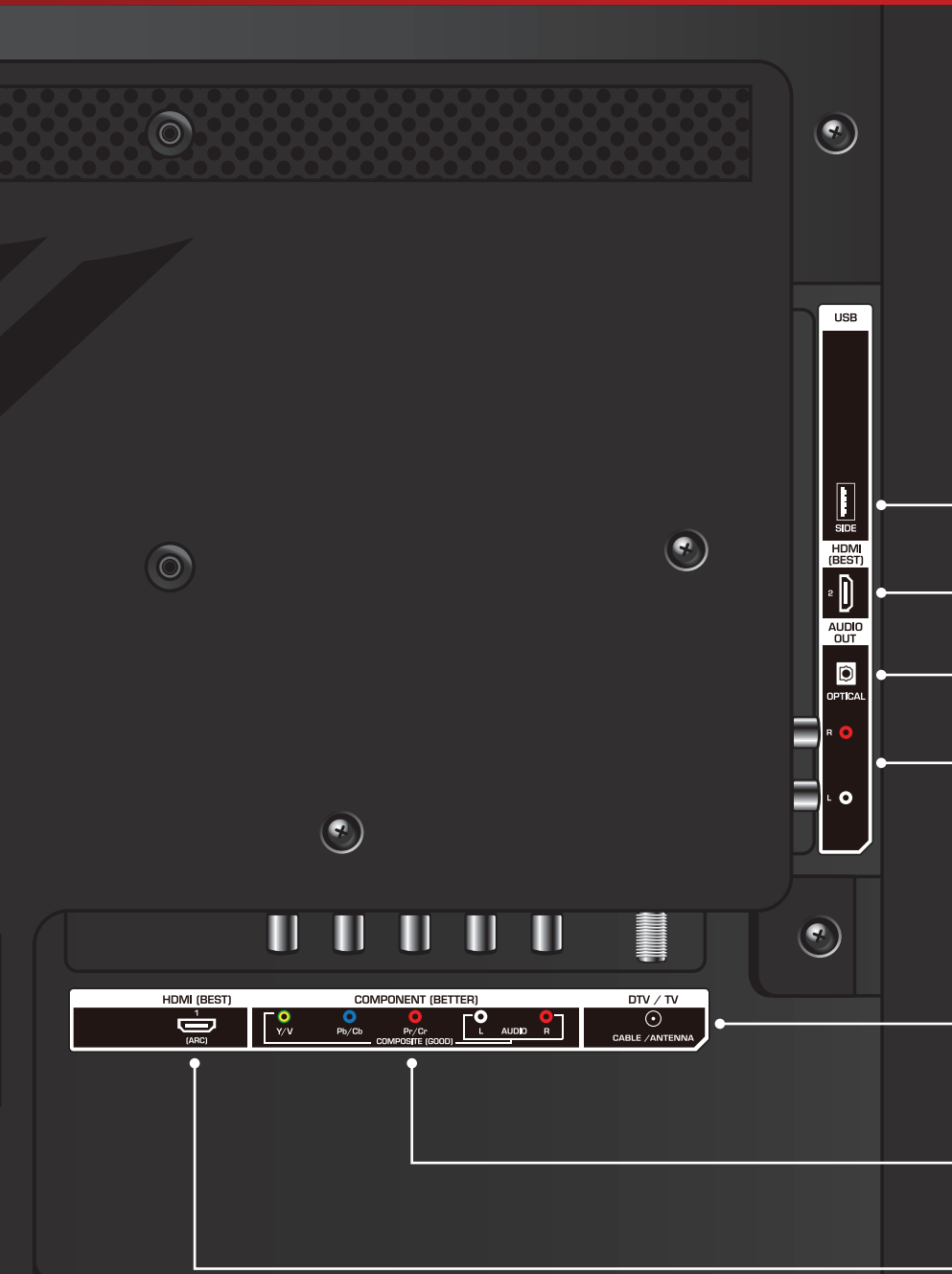
E320-B0	
Screw Size:	M4
Screw Pitch:	0.70mm
Screw Length:	12mm
Hole Pattern:	100mm (V) x 100mm (H)

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 base 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.



USB - Connect USB thumb drive to play photos.

HDMI - Connect HDMI device.

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

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

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

Component/Composite - Connect component or composite device.

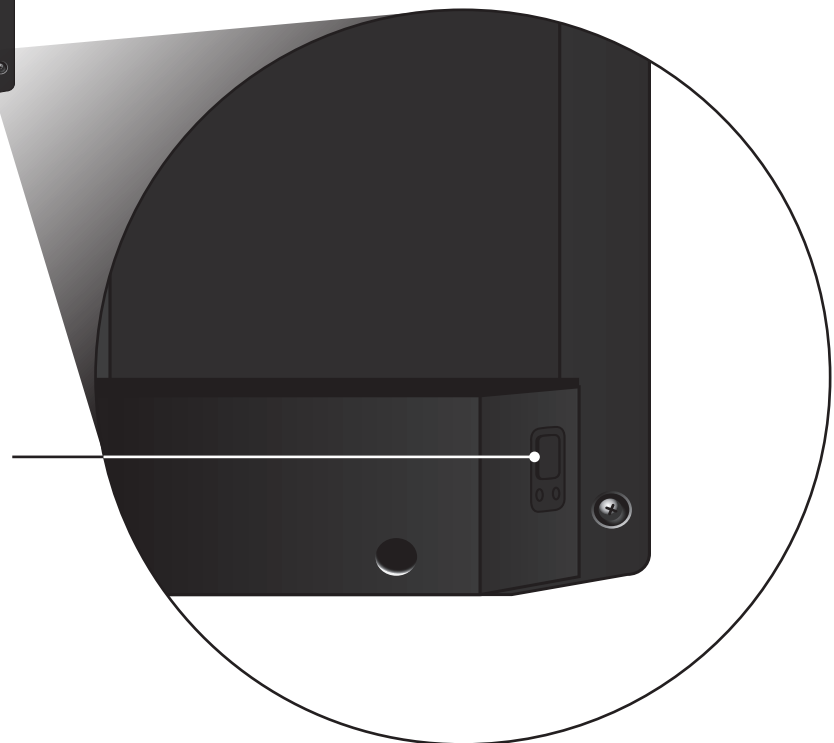
HDMI - Connect HDMI device.

REAR PANEL



POWER - Press and hold to turn TV on or off.

INPUT - Press to change input source.



SIDE PANEL

**REMOTE SENSOR & POWER INDICATOR**

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

The power indicator flashes on when the TV turns on, then goes out after several seconds. To keep the power indicator on as long as the TV is on, see *Turning the Power Indicator On or Off* on page 39.

FRONT PANEL

INPUT
Change the currently-displayed input.

EXIT
Close the on-screen menu.

OK
Select the highlighted menu option.

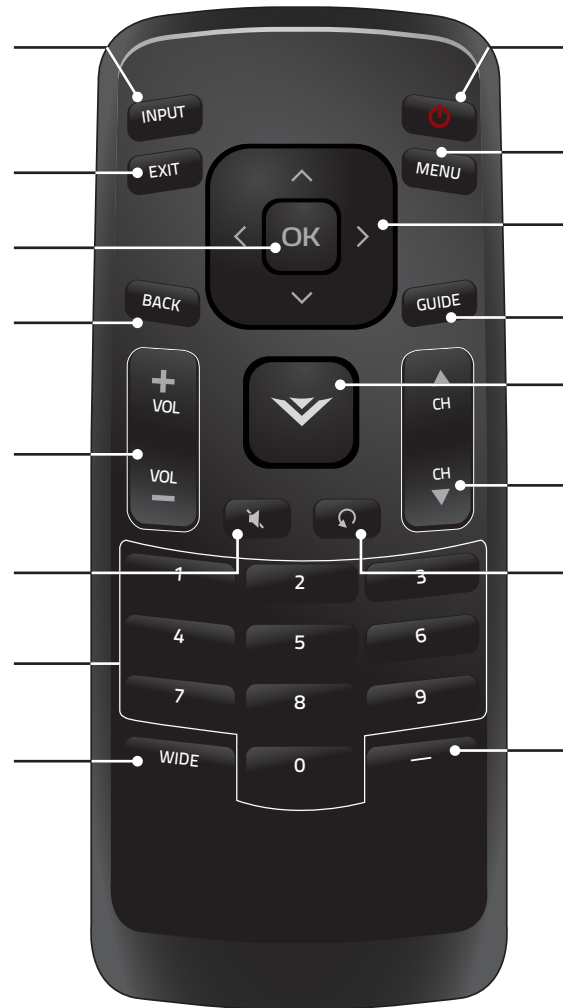
BACK
Go to the previous on-screen menu.

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.

MENU
Display the on-screen menu.

ARROW
Navigate the on-screen menu.

GUIDE
Display the info window.

V BUTTON
Open the USB photo viewer.

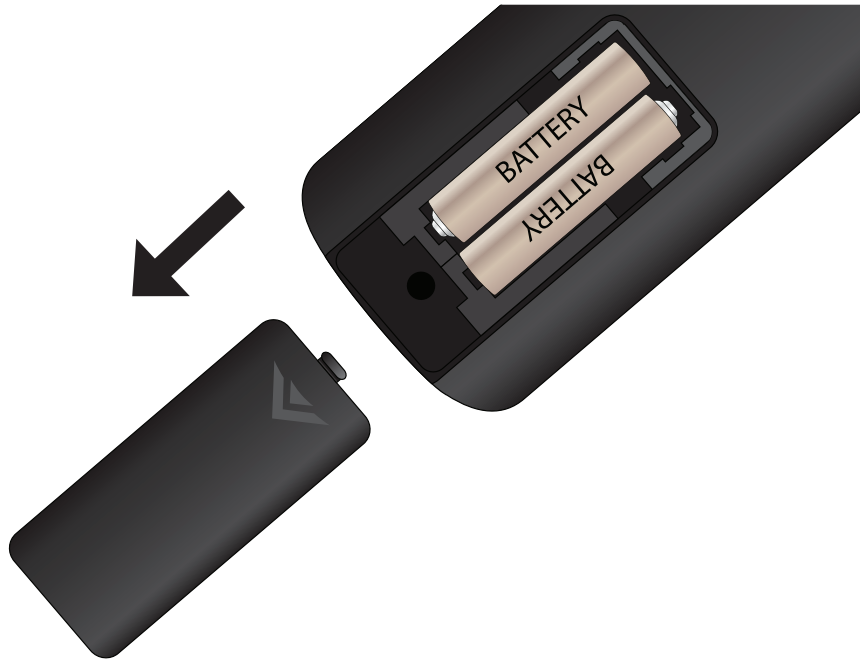
CHANNEL UP/DOWN
Change the channel.

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.)

REMOTE CONTROL

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.

CONNECTING A DEVICE

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).



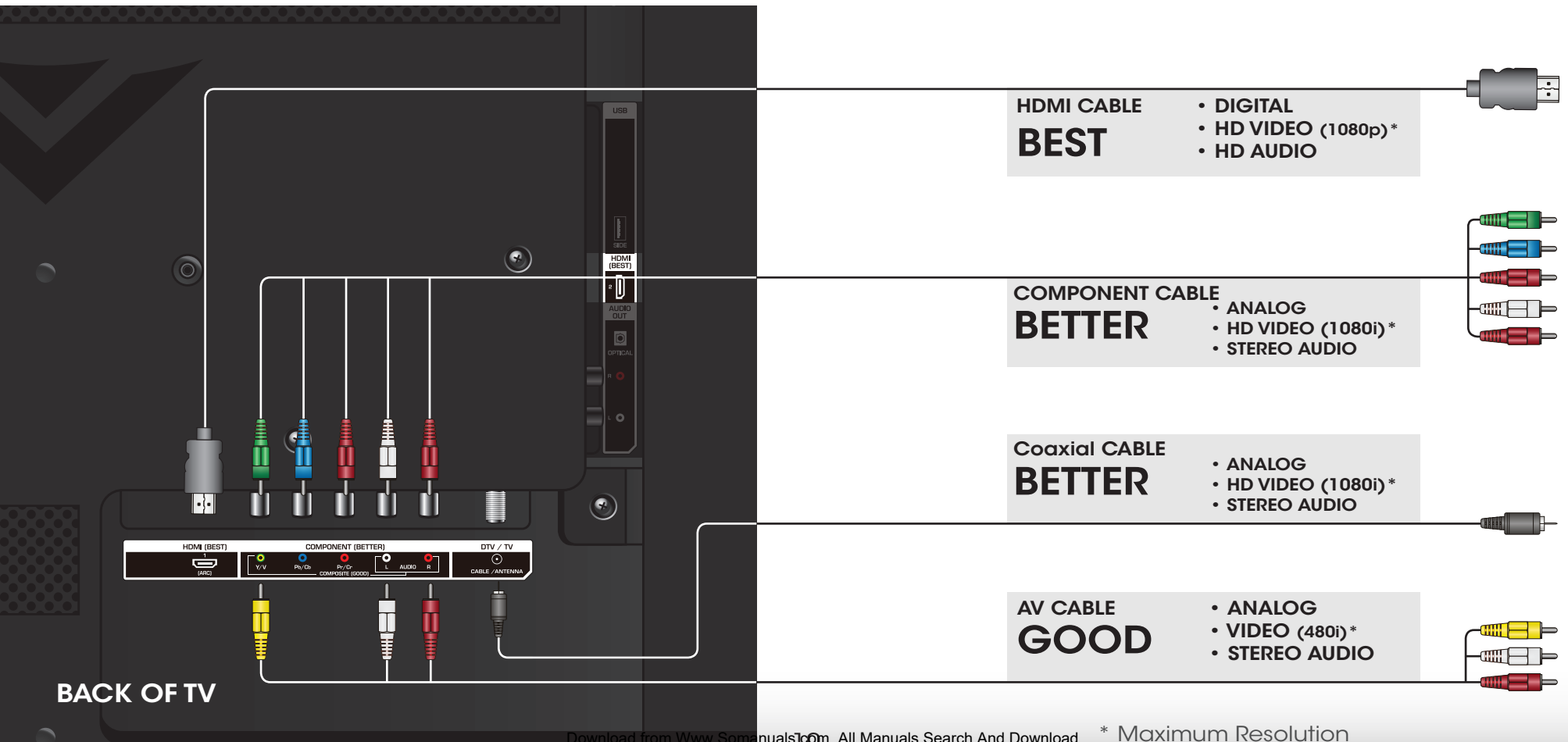
Cable/Satellite Box



DVD/Blu-ray Player



Game Console

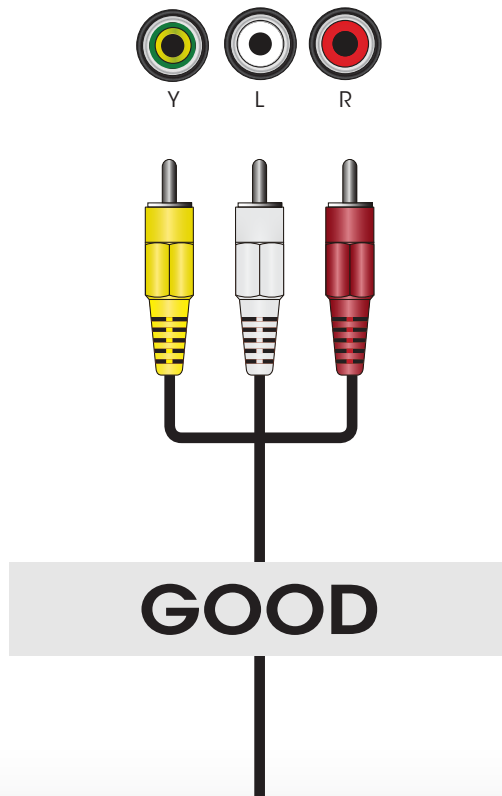


CONNECTING A DEVICE - AUDIO AND VIDEO CABLE TYPES

AV CABLE

AV cables (or Composite cables) are the traditional way of connecting your devices to your TV. Video signals are sent over the yellow connector while audio is sent over the red and white connectors.

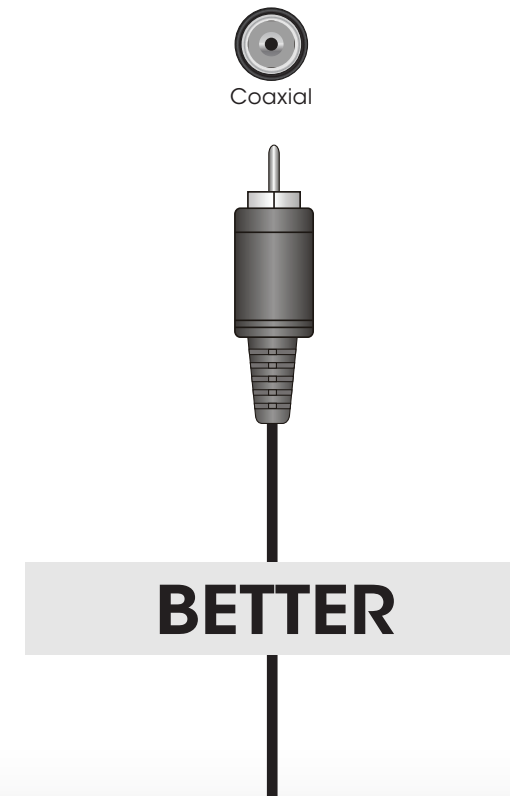
- Video Resolutions up to 480i
- Analog Connection
- Audio and Video Signals



COAXIAL CABLE

Coaxial cables are the traditional way of connecting antennas and cable television signals to your TV. Coaxial cables carry both audio and video signals through a single connector.

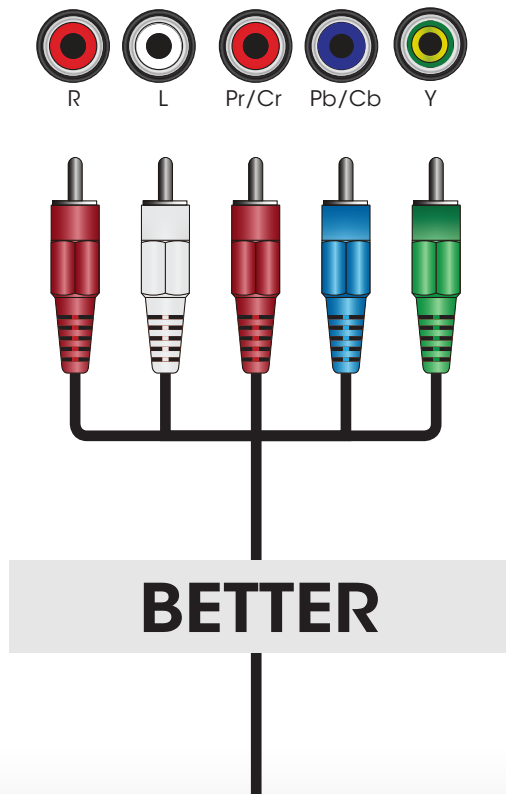
- HD Video Resolutions up to 1080i
- Analog Connection
- Audio and Video Signals



COMPONENT CABLE

Component cables are designed to carry high definition video signals along with additional audio connections. Colors are delivered with color information split up three different ways over three connectors for video (separated into Red, Blue and Green signals) and the left and right audio connectors (Red and White).

- **HD Video Resolutions up to 1080i**
- **Analog Connection**
- **Audio and Video Signals**



HDMI CABLE

HDMI is the intelligent, all-digital interface that delivers both dazzling quality and unmatched ease of use. HDMI technology transmits crystal-clear digital video along with multi-channel surround audio. HDMI-connected devices have the ability to automatically adjust themselves for optimal viewing.

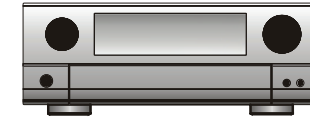
- **HD Video Resolutions up to 1080p**
- **HD Audio**
- **Digital Connection**
- **Audio and Video Signals**



CONNECTING AN AUDIO DEVICE

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

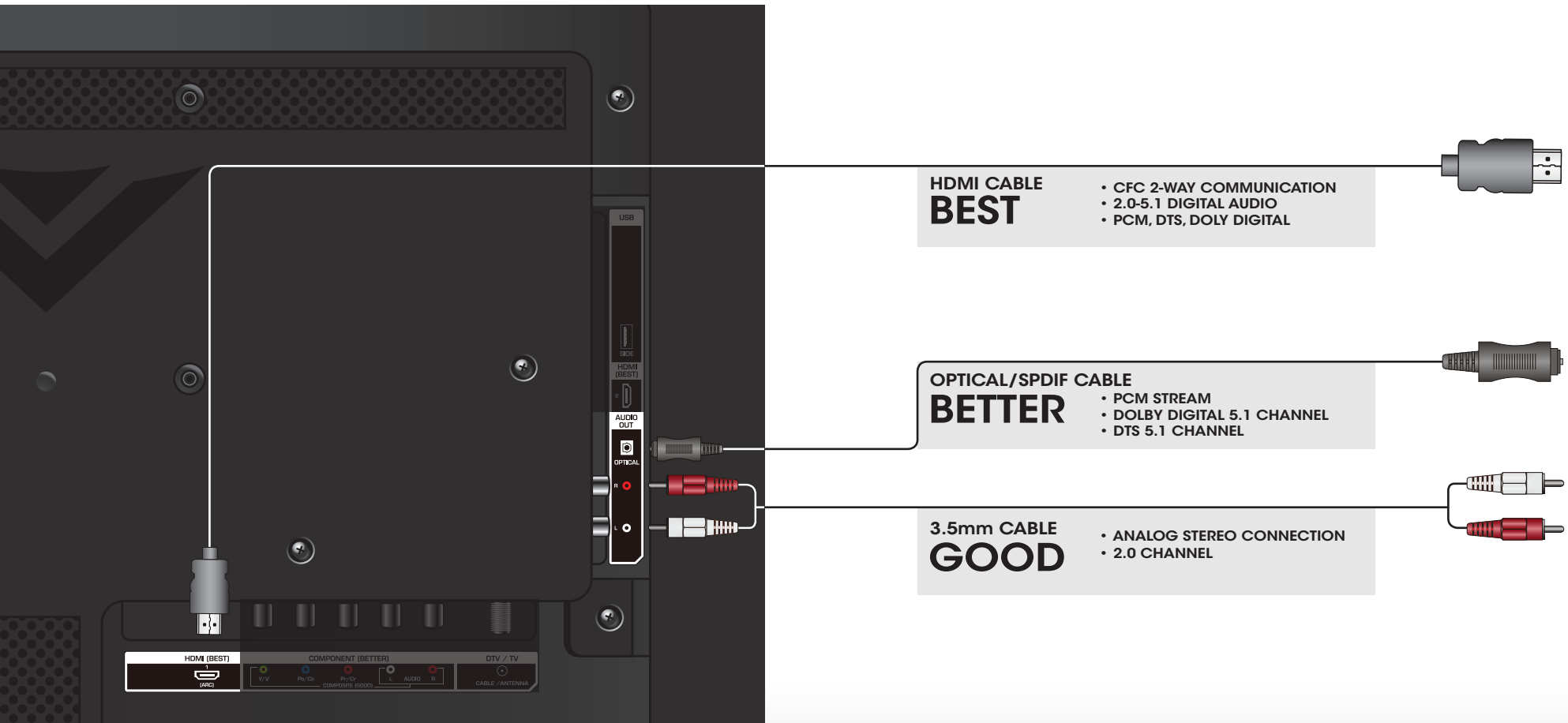
1. Verify that your device has a video port that matches an available port on the TV (HDMI, RCA, etc).
2. Turn the TV and your audio device off.
3. Connect the appropriate cable (not included) to the TV and the device.
4. Turn the TV and your device on.



Home Audio Receiver



VIZIO Sound Bar

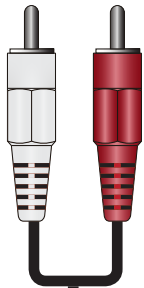


CONNECTING AN AUDIO DEVICE - AUDIO CABLE TYPES

RCA CABLE

AV cables (or Composite cables) are the traditional way of connecting your devices to your audio device. Audio signals are sent over the red and white connectors.

- **Quality Stereo Connection**
- **2.0 Channel**
- **Analog Connection**
- **Audio Signal Only**



GOOD

OPTICAL/SPDIF CABLE

Optical/SPDIF cables transmit audio signals as pulses of light through a cable made of plastic fibers. Audio signals are digitally transmitted between devices.

- **PCM Stream (Lossless)**
- **Dolby Digital 5.1 Channel**
- **DTS 5.1 Channel**
- **Digital Connection**
- **Audio Signal Only**



Optical/SPDIF



BETTER

HDMI CABLE

HDMI technology transmits crystal-clear digital multi-channel surround audio through a single HDMI cable. Audio Return Channel-enabled (ARC) TVs allow audio to be sent over an already connected HDMI cable, eliminating the need for a separate audio cable. See *Connecting an Audio Device - ARC* on page 15.

- **CFC 2-way Communication (Auto setup)**
- **PCM, DTS, Dolby Digital**
- **2.0-5.1 Scalable Lossless Digital Audio Connection**
- **Audio and Video Signals**



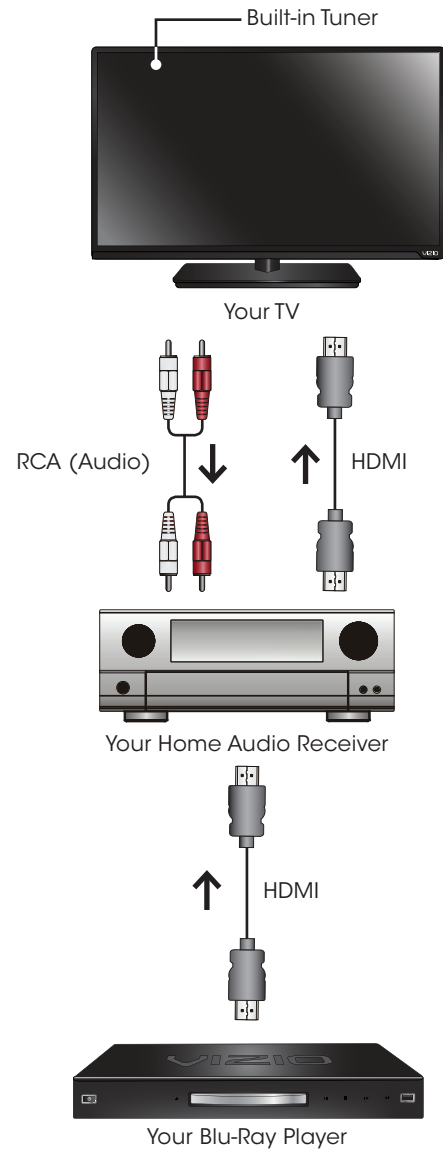
HDMI



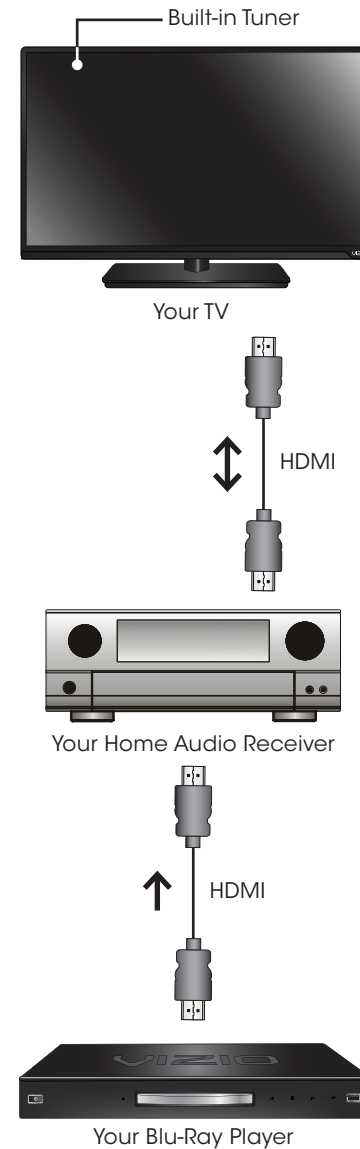
BEST

CONNECTING AN AUDIO DEVICE - ARC

Without HDMI ARC



With HDMI ARC



With an HDMI ARC setup, the audio connection between your TV and Home Audio Receiver can be removed. The HDMI cable will transmit audio signal to and from your TV with an all-digital audio/video connection.

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:

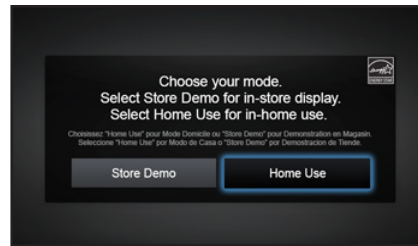
- Your TV should be installed and the power cord should be connected to an electrical outlet.
- Your devices should be connected.

To complete the first-time setup:

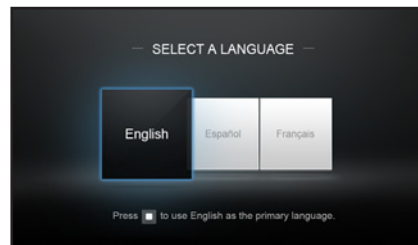
1. Press the **Power/Standby** button on the remote. The TV powers on and the Setup App starts.



2. Use the **Arrow** buttons on the remote to highlight **Home Use** and press **OK**.



3. Use the **Arrow** buttons on the remote to highlight your preferred language and press **OK**.



4. Use the **Arrow** buttons on the remote to highlight how your TV is receiving signal and press **OK**.

Follow the on-screen instructions to complete the channel scan.



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

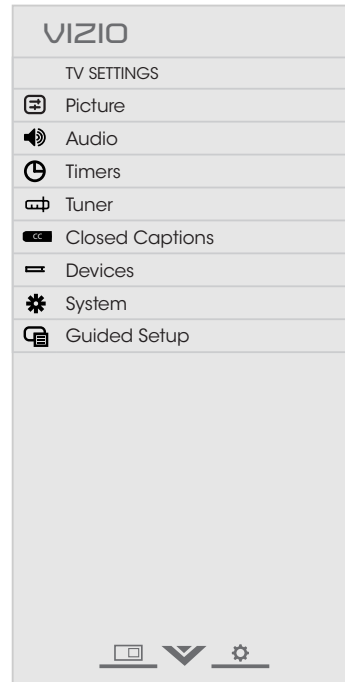
The First-Time Setup is complete.

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

To open the on-screen menu, press the **MENU** button on the remote. You can also open the on-screen menu by pressing the **VIA** button and selecting **HDTV Settings** from the VIA Dock, then pressing **OK**.

From this menu, you can:

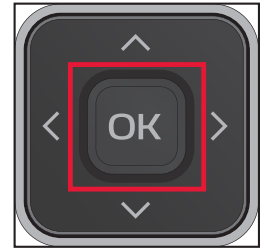
- Adjust the Picture settings
- Adjust the Audio settings
- Activate the Sleep Timer
- Adjust the Tuner settings
- Set up Closed Captioning
- Name the TV Inputs
- Adjust TV Settings
- Access the Guided Setup



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 **INPUT** button on the remote. The input menu is displayed.
2. Use the **Up/Down Arrow** buttons or the **INPUT** button on the remote to highlight the input you wish to view and press **OK**. The selected input is displayed.



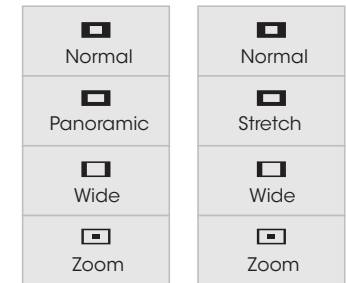
Note: Inputs may vary by TV.

CHANGING THE SCREEN ASPECT RATIO

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

To change the screen aspect ratio:

1. Press the **WIDE** button on the remote.
2. Use the **Arrow** buttons to highlight the aspect ratio you wish to view and press **OK**.



Note: Aspect ratio settings may vary by Input source.

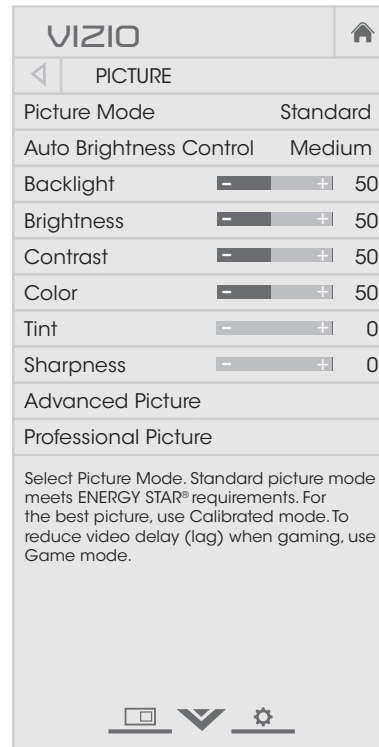
- **Normal** preserves the content's original aspect ratio. Since the 4:3 aspect ratio is not large enough to fill the TV's screen, black bars are added to the left and right of the display image.
- **Stretch** expands the display image to fill the screen. Images may appear wider than intended. If you 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 source.**
- **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.**
- **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.
- **Zoom** expands images with black bars to fit the screen.

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 **Picture** 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:



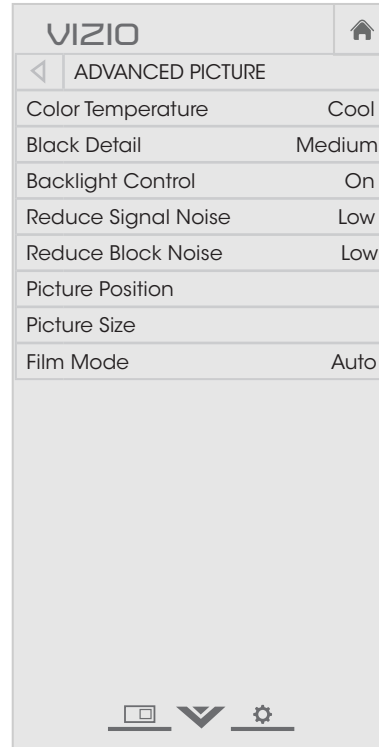
- **Standard mode** sets the various picture settings to values that meet ENERGY STAR® requirements.
- **Calibrated mode** sets the picture settings to values perfect for watching TV in a brightly-lit room.
- **Calibrated Dark mode** sets the picture settings to values perfect for watching TV in a dark room.
- **Vivid mode** sets the picture settings to values that produce a brighter, more vivid picture.
- **Game mode** reduces throughput delays and optimizes the picture settings for displaying game console output.
- **Computer mode** optimizes the picture settings for displaying computer output.

4. Auto Brightness Control automatically adjusts the brightness of the TV screen according to how bright the surrounding is. To adjust the sensitivity of the light sensor, use the **Up/Down Arrow** buttons on the remote to highlight **Auto Brightness Control**. Then use the **Left/Right Arrow** buttons to select **Off, Low, Medium, or Bright**.
5. To manually change each of the picture settings, use the **Up/Down Arrow** buttons on the remote to highlight that picture setting, then use the **Left/Right Arrow** buttons to adjust the setting:
 - **Backlight** - Adjusts the LED brightness to affect the overall brilliance of the picture. Backlight cannot be adjusted when starting from some picture modes.
 - **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.
6. When you have finished adjusting the picture settings, press the **EXIT** button on the remote.

Adjusting the Advanced Picture Settings

To adjust the advanced picture settings:

- From the PICTURE menu, use the **Arrow** buttons to highlight **More**, and then press **OK**.
- Use the **Arrow** buttons to highlight **Advanced Picture**, and then press **OK**. The **ADVANCED PICTURE** menu is displayed.
- Use the **Arrow** buttons to highlight the setting you wish to adjust, then press the **Left/Right Arrow** buttons to change the setting:
 - Color Temperature** - Adjusts the 'warmness' and 'coolness' of the white areas of the picture. Select **Cool**, **Normal**, or **Computer**.
 - Black Detail** - Adjusts the average brightness of the picture to compensate for large areas of brightness. Select **Off**, **Low**, **Medium**, or **High**.
 - Backlight Control** - Dynamically improves the contrast ratio of the picture by adjusting the backlight. The adjustment is controlled by the content on the screen. Select **On** or **Off**.
 - Reduce Signal Noise** - Diminishes artifacts in the image caused by the digitizing of image motion content. Select **Off**, **Low**, **Medium**, or **High**.
 - Reduce Block Noise** - Reduces pixelation and distortion for mpeg files. Select **Off**, **Low**, **Medium**, or **High**.



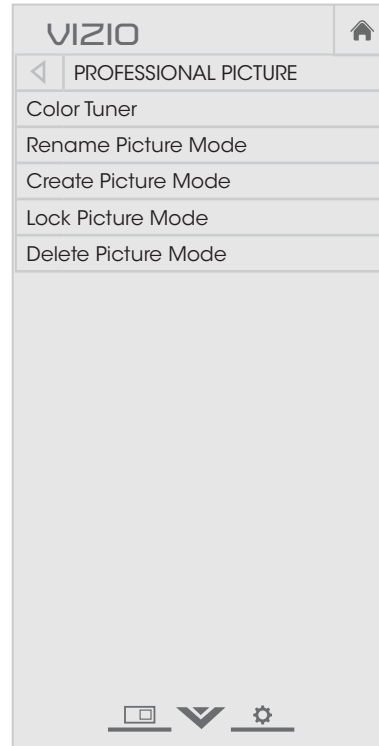
- Picture Position** - Adjust the vertical and horizontal positions of the picture to ensure the image is centered and completely fills the screen. Use the **Left/Right Arrow** buttons to adjust the horizontal position of the displayed picture. Use the **Up/Down Arrow** buttons to adjust the vertical position of the displayed picture. Press the **BACK** button when you are finished.
 - Picture Size** - Increase or decrease the vertical and horizontal size of the displayed picture. Use the **Left/Right Arrow** buttons to adjust the horizontal size of the displayed picture. Use the **Up/Down Arrow** buttons to adjust the vertical size of the displayed picture. Press the **BACK** button when you are finished.
 - Film Mode** - Optimizes the picture for watching film. Select **Auto** or **Off**.
- When you have finished adjusting the Advanced Picture Settings, press the **EXIT** button on the remote.

Adjusting the Professional Picture Settings

You can manage custom picture modes and adjust professional picture settings such as HSB, RGB offset, RGB gain, and 11 Point white balance.

To adjust the professional picture settings:

- From the PICTURE menu, use the **Arrow** buttons to highlight **Professional Picture**, and then press **OK**. The PROFESSIONAL PICTURE menu is displayed.
- Use the **Arrow** buttons to highlight the setting you wish to adjust, then press **OK** to change the setting:
 - Color Tuner** - Adjust the professional HSB color and 11 point white balance.
 - Rename Picture Mode** - Rename a custom picture mode.
 - Create Picture Mode** - Create a custom picture mode.
 - Lock Picture Mode** - Lock a custom picture mode with a unique passcode.
 - Delete Picture Mode** - Delete a custom picture mode. Inputs assigned to that custom picture mode will be set to Calibrated picture mode.



Adjusting the Color Tuner Settings

You can adjust the professional HSB color and 11 point white balance. Test your setting using the SMPTE, Flat, and Ramp test patterns.

To adjust the color tuner settings:

- From the PROFESSIONAL PICTURE menu, use the **Arrow** buttons to highlight **Color Tuner**, and then press **OK**. The Color Tuner menu is displayed.

Color Tuner						
	Red	Green	Blue	Cyan	Magenta	Yellow
Hue	0	0	0	0	25	-14
Saturation	-1	5	-4	0	-2	0
brightness	-24	0	-22	0	0	0
Offset	0	0	0			
Gain	0	0	0			

- Use the **Arrow** buttons on the remote to highlight **Hue**, **Saturation**, **Brightness**, **Offset**, or **Gain** of the color you wish to adjust. Press the **OK** button and use the **Left/Right Arrow** buttons to adjust the value. When you are finished press the **OK** button to save the setting.
- Use the **Arrow** buttons to highlight another setting you wish to adjust.
- When you are finished adjusting the color tuner settings, press the **EXIT** button.

To adjust the 11 Point White Balance settings:

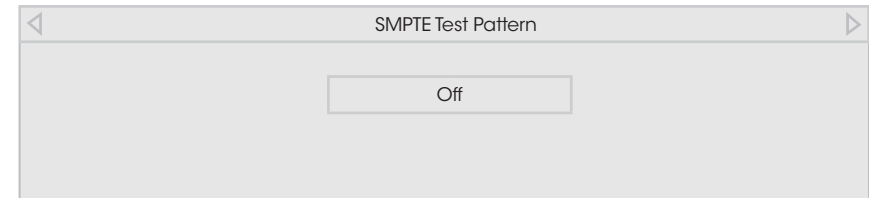
1. From the Color Tuner menu, use the **Arrow** buttons to highlight **Color Tuner**, and then press the **Left/Right Arrow** buttons until the 11 Point White Balance menu is displayed.

11 Point White Balance				
Gain	Red	Green	Blue	
5%	0	0	0	

2. Use the **Arrow** buttons on the remote to highlight the **Gain** and **Color values** you wish to adjust. Press the **OK** button and use the **Left/Right Arrow** buttons to adjust the value. When you are finished press the **OK** button to save the setting.
3. When you are finished, press the **EXIT** button.

To enable/disable the SMPTE Test Pattern:

1. From the Color Tuner menu, use the **Arrow** buttons to highlight **Color Tuner**, and then press the **Left/Right Arrow** buttons until the SMPTE Test Pattern menu is displayed.



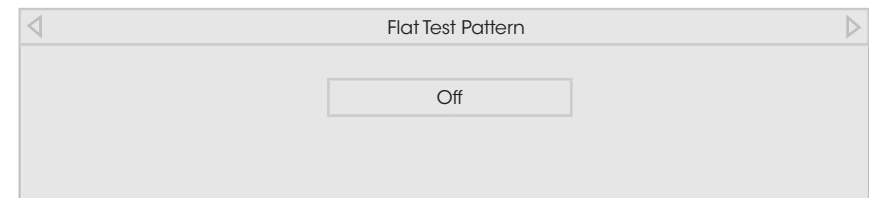
2. Use the **Arrow** buttons on the remote to highlight Off. Use the **Left/Right Arrow** buttons to highlight **On** to enable the SMPTE Test Pattern.

To disable the SMPTE Test Pattern, use the **Left/Right Arrow** buttons to highlight **Off**.

3. When you are finished, press the **EXIT** button.

To enable/disable the Flat Test Pattern:

1. From the Color Tuner menu, use the **Arrow** buttons to highlight **Color Tuner**, and then press the **Left/Right Arrow** buttons until the Flat Test Pattern menu is displayed.



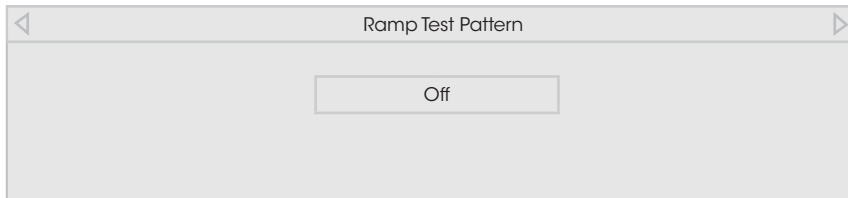
2. Use the **Arrow** buttons on the remote to highlight Off. Use the **Left/Right Arrow** buttons to highlight **On** to enable the Flat Test Pattern.

To disable the Flat Test Pattern, use the **Left/Right Arrow** buttons to highlight **Off**.

3. When you are finished, press the **EXIT** button.

To enable/disable the Ramp Test Pattern:

1. From the Color Tuner menu, use the **Arrow** buttons to highlight **Color Tuner**, and then press the **Left/Right Arrow** buttons until the Ramp Test Pattern menu is displayed.



2. Use the **Arrow** buttons on the remote to highlight Off. Use the **Left/Right Arrow** buttons to highlight **On** to enable the Ramp Test Pattern.

To disable the Ramp Test Pattern, use the **Left/Right Arrow** buttons to highlight **Off**.

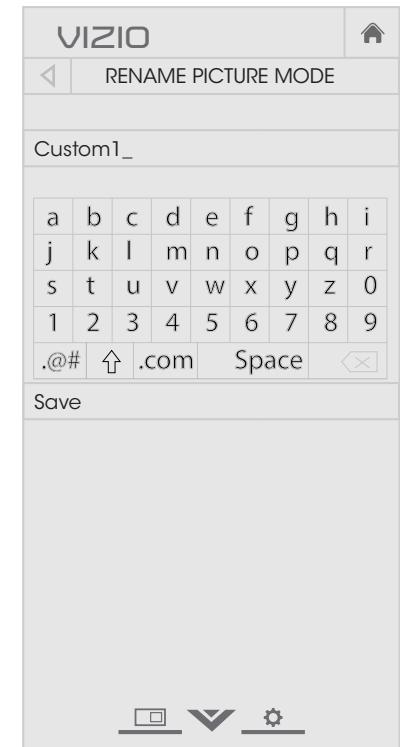
3. When you are finished, press the **EXIT** button.

Renaming the Custom Picture Mode

You can rename the custom picture mode from the PICTURE menu.

To rename the custom picture mode:

1. From the PROFESSIONAL PICTURE menu, use the **Arrow** buttons to highlight **Rename Picture Mode**, and then press **OK**. The RENAME PICTURE MODE menu is displayed.
2. Use the **Arrow** buttons to enter a custom name using the on-screen keyboard.
3. Highlight **Save** and press **OK**.
4. Press the **EXIT** button to exit the menu screens.

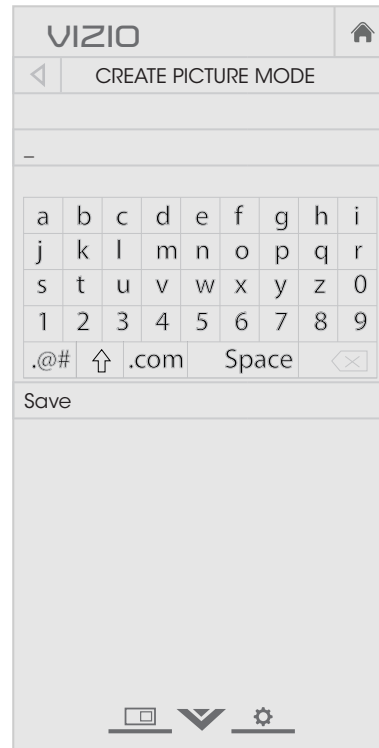


Creating a Custom Picture Mode

You can create a custom picture mode.

To create a custom picture mode:

1. From the PROFESSIONAL PICTURE menu, use the **Arrow** buttons to highlight **Create Picture Mode**, and then press **OK**. The CREATE PICTURE MODE menu is displayed.
2. Use the **Arrow** buttons to enter a name for your custom picture mode using the on-screen keyboard.
3. Highlight **Save** and press **OK**.
4. Press the **EXIT** button to exit the menu screens.

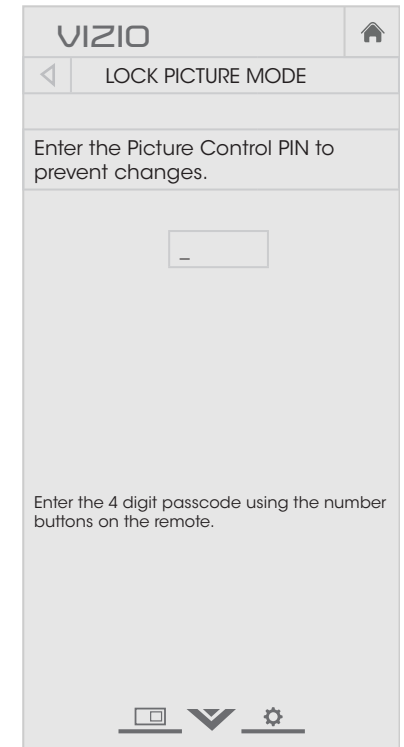


Locking a Custom Picture Mode

You can lock the custom picture mode with a unique passcode to prevent any changes.

To lock a custom picture mode:

1. From the PROFESSIONAL PICTURE menu, use the **Arrow** buttons to highlight **Lock Picture Mode**, and then press **OK**. The LOCK PICTURE MODE menu is displayed.
2. Use the **Number Pad** on your remote to enter a unique 4 digit passcode.
3. Press the **EXIT** button to exit the menu screens.

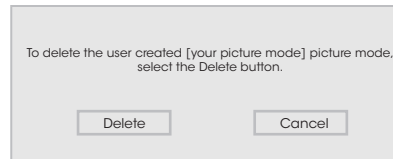


Deleting a Custom Picture Mode

You can delete a custom picture mode. Inputs assigned to the deleted custom will be assigned to the *Calibrated* picture mode.

To lock a custom picture mode:

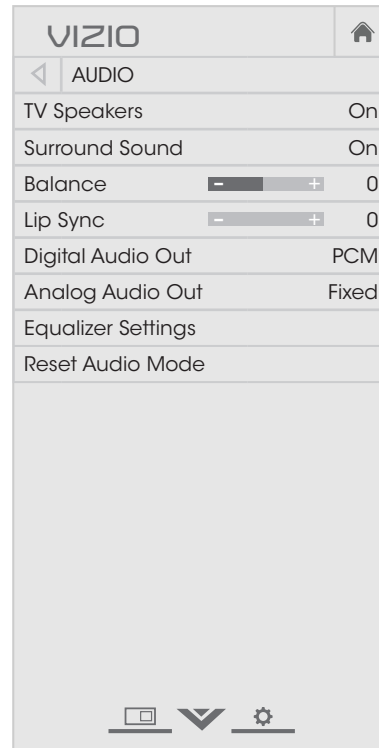
1. From the PROFESSIONAL PICTURE menu, use the **Arrow** buttons to highlight **Delete Picture Mode**, and then press **OK**. The DELETE PICTURE MODE window is displayed.
2. Use the **Left/Right** Arrow buttons to highlight **Delete** and press **OK**.
3. Press the **EXIT** button to exit the menu screens.



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 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:
 - **TV Speakers** - Turns the built-in speakers on or off.
 - **Surround Sound** - Surround sound uses DTS TruSurround™ to deliver an immersive surround sound experience from the TV's internal speakers. TruSurround completes the entertainment experience by providing deep, rich bass and by delivering crisp details and clear, intelligible dialog. Select On or Off.
 - **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.



- **Digital Audio Out** - Changes the type of processing for the Optical and HDMI ARC output when connected to a home theater audio system. Select PCM or Bitstream.
 - **Analog Audio Out** - Sets the volume control properties for the analog RCA (red/white) connectors 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.
 - **Equalizer Settings** - Adjusts the boost or attenuation of different frequencies. Change the audio mode by selecting Flat, Dynamic, Center, Bass Boost, or Bright.
 - **Reset Audio Mode** - Restores the audio settings to the factory defaults. See *Resetting the Audio Settings on page 27*.
4. When you have finished adjusting the audio settings, press the **EXIT** button on the remote.

Resetting the Audio Settings

To reset the audio settings to the factory default settings:

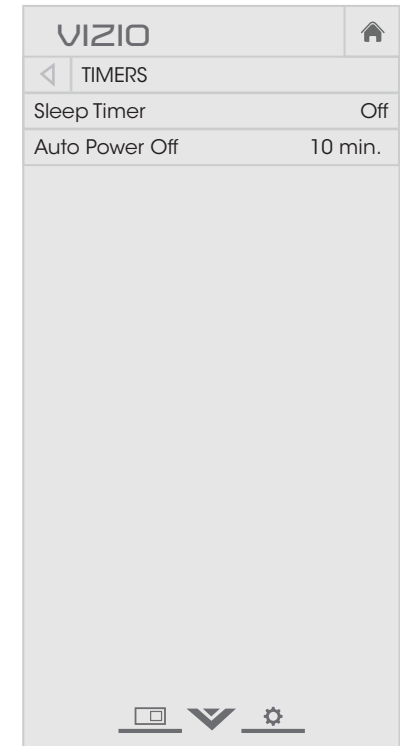
1. Press the **MENU** button on the remote. The on-screen menu is displayed.
2. Use the **Arrow** buttons on the remote to highlight **Audio** and press **OK**. The Audio menu is displayed.
3. Use the **Arrow** buttons to highlight **Reset Audio Mode** and press **OK**. The TV displays, "Select Reset to restore factory default audio settings."
4. Highlight **Reset** and press **OK**.
5. 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 **Timers** and press **OK**. The Timers menu is displayed.
3. Use the **Left/Right Arrow** buttons on the remote to highlight the period of time after which you want the TV to go to sleep: **30, 60, 90, 120, or 180 minutes**. If you don't want the sleep timer to activate, change the setting to **Off**.
4. When you have finished setting the sleep timer, press the **EXIT** button on the remote.



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**.
2. Use the **Left/Right Arrow** buttons on the remote to change whether the TV will turn off. If you don't want the TV to turn off when there is no signal, change the setting to **Off**. Otherwise, select **10 min**.
3. When you have finished setting the auto power off time, press the **EXIT** button on the remote.

SETTING UP THE TUNER

You can use the TV's Tuner menu to:

- Select a Tuner Input
- Perform an Auto Channel Scan
- Perform a Partial Channel Scan
- Manually Add Channels
- Select channels to skip
- Select Analog MTS modes
- Select Digital Languages



Selecting a Tuner Input

Select the type of tuner input you will be using. You can select either Antenna (Over-the-air) or Cable (Out-of-the-wall) connections.

1. From the Tuner menu, highlight **Tuner Mode** and press **OK**. The Tuner Mode menu displays.
2. Highlight **Antenna** or **Cable** and press **OK**. Press **EXIT**.

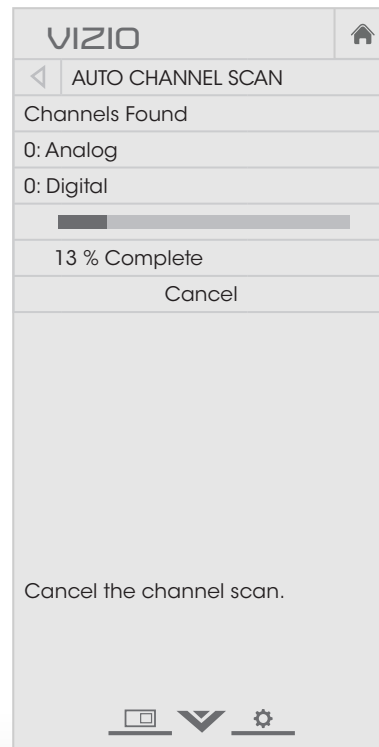
Scanning for Channels

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.

To perform an Auto Channel Scan:

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.

If the channel scan is cancelled, the channels that were already discovered are retained. A new channel scan will clear all channels.



Adding New Channels

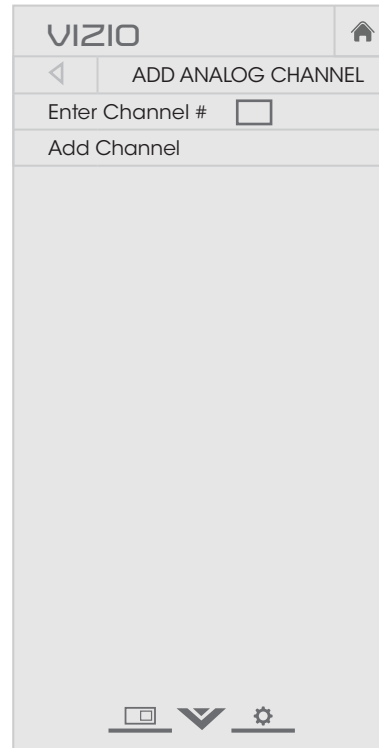
Occasionally, you may need to add a new range of channels or add a new analog channel. You can do this by using the Partial Channel Search and Add Analog Channel options.

To add a range of new channels:

1. From the Tuner 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**, or **Analog Digital**.
3. Highlight **From Channel** and enter the channel where you want to begin the scan. (Use the **Left Arrow** button to backspace. Use the **Number Pad** on the remote to enter the channel.)
4. Highlight **To Channel** and enter the channel where you want to end the scan. (Use the **Left Arrow** button to backspace. 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 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

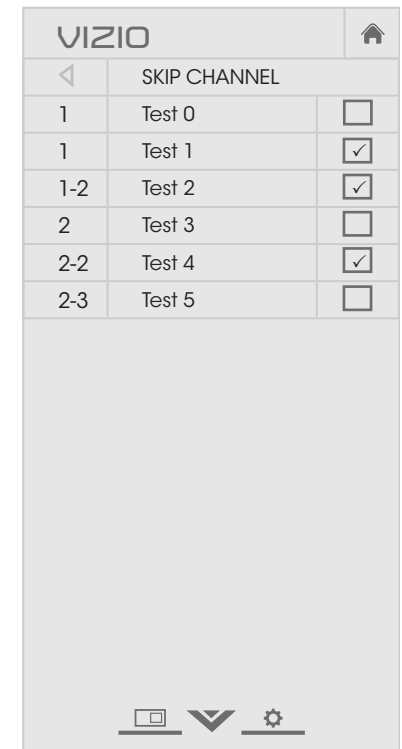
After a channel scan is completed, you may find that some channels are too weak to watch comfortably. There may also be some channels you do not want to view. You can remove these channels from the TV's memory with the Skip Channel feature.



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 *Locking and Unlocking Channels on page 36*.

To remove a channel:

1. From the Tuner 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**. A ✓ 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, cable, and satellite channels broadcast programs in more than one language. The Analog Audio and Digital Language features allow you to listen to audio from Secondary Audio Programming (SAP). SAP allows you to listen to broadcasts in multiple languages.

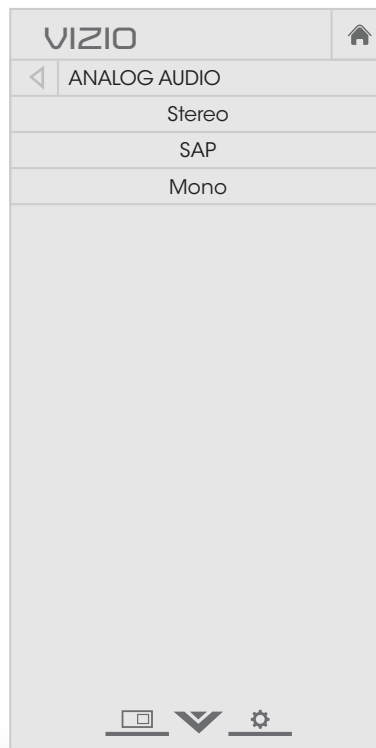
- Analog Audio works with analog channels.
- Digital Language works with digital channels.



Not all programs are broadcast in multiple languages. The Analog Audio and Digital Language features only work when the program being viewed is being broadcast in the language you select.

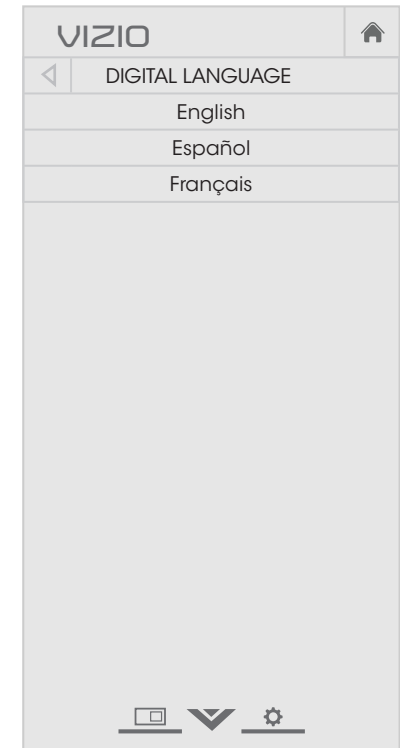
To use the Analog Audio feature:

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



To use the Digital Language feature:

1. From the Tuner menu, highlight **Digital Language** and press **OK**. The DIGITAL LANGUAGE menu is displayed.
2. Select your preferred language: **English**, **Español**, or **Français**. Press **OK**.
3. Press the **EXIT** button on the remote.



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.

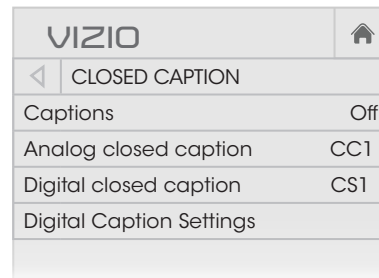


If the program you are viewing is not being broadcast with closed captions, the TV will not display them.

The Closed Captioning menu only appears when the input is an antenna for Over-the-Air signals, cable TV directly from the wall (no cable box), or a device with a composite video connection.

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 **Closed Captions** and press **OK**. The CLOSED CAPTION menu is displayed.
3. Use the **Up/Down Arrow** buttons to highlight **Captions**, then use the **Left/Right Arrow** buttons to turn Closed Captions On or Off.
4. Use the **Arrow** buttons on the remote to highlight the type of closed captions you wish to see:
 - **Analog CC** for analog (NTSC) TV channels.
 - **Digital CC** for digital (ATSC) TV channels.
5. 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**.

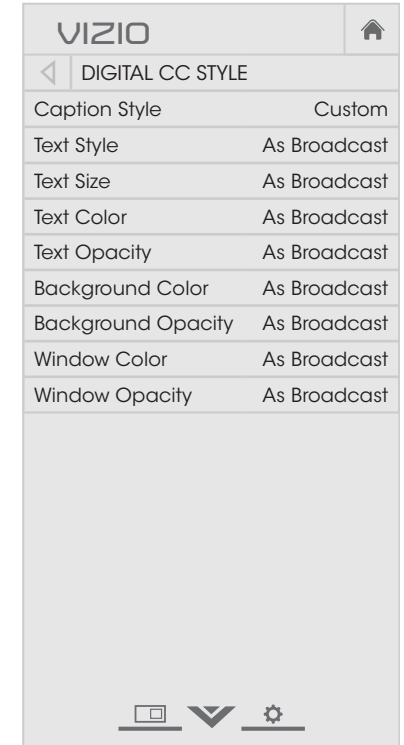


Changing the Appearance of Digital Closed Captions

Digital closed captions can be displayed according to your preference. See the diagram on the next page for an explanation of the parts of the closed caption area.

To change the appearance of digital closed captions:

1. From the CLOSED CAPTION menu, use the **Arrow** buttons to highlight **Digital CC Style** and press **OK**.
2. Use the **Left/Right Arrow** buttons on the remote to select **Custom**. The DIGITAL CC STYLE menu appears as shown.
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 Style** - Change the font used for the closed captioning text.
- **Text Size** - Make the text larger or smaller.
- **Color** - Change the color of the text.
- **Opacity** - Change the transparency of the text.
- **Background Color** - Change the color of the background directly behind the text.
- **Background Opacity** - Change the transparency of the background directly behind the text.

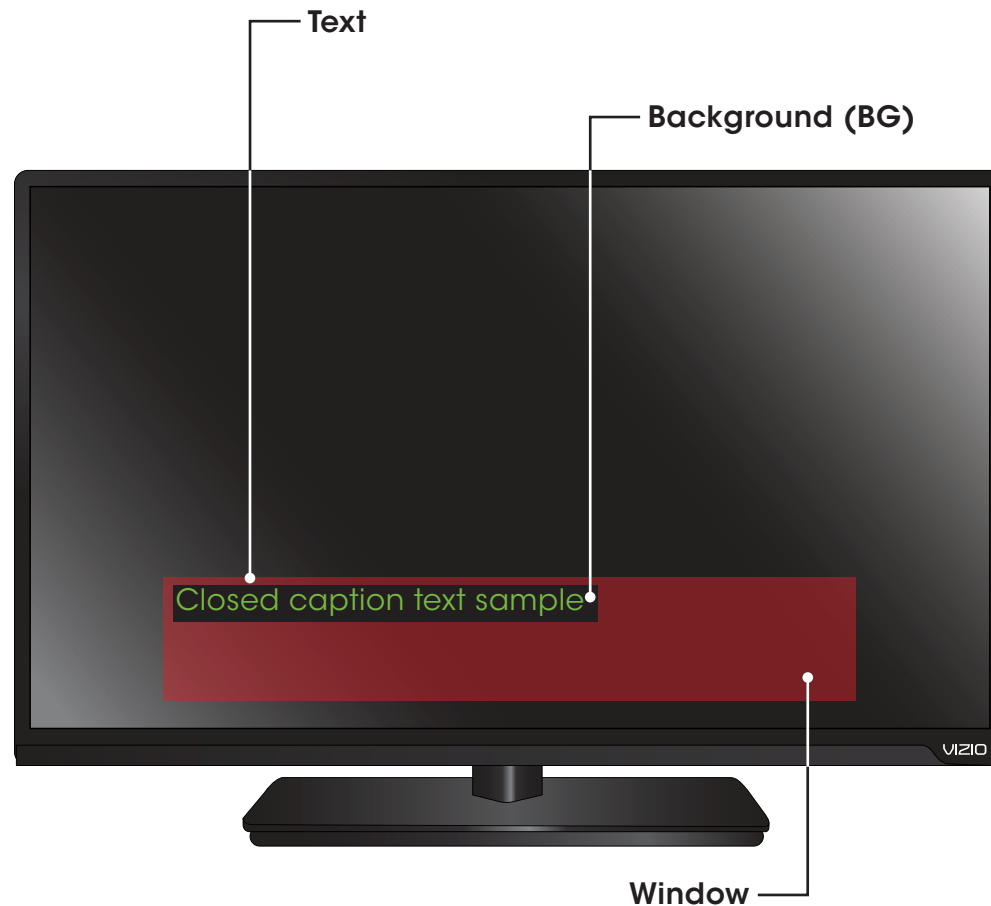
- **Window Color** - Change the color of the closed captioning box.
- **Window Opacity** - Change the opacity of the closed captioning box

4. When you are satisfied with the appearance of the closed captions, press the **EXIT** button on the remote.

In the example below, the closed caption text is green, the background is black, and the window is red.

Typical choices include:

- Transparent background, opaque window—The entire window remains filled with color, while the text appears in it. The area covered by the window stays the same until the signal from the TV or a device moves it out of the way of a changing picture.
- Opaque background, transparent window—Only a strip of background appears behind the text. There is no window to block the picture.



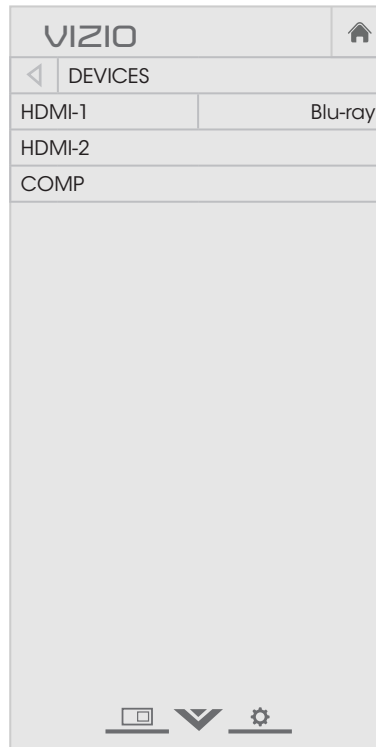
CLOSED CAPTIONS SCREEN LAYOUT

SETTING UP DEVICES

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:

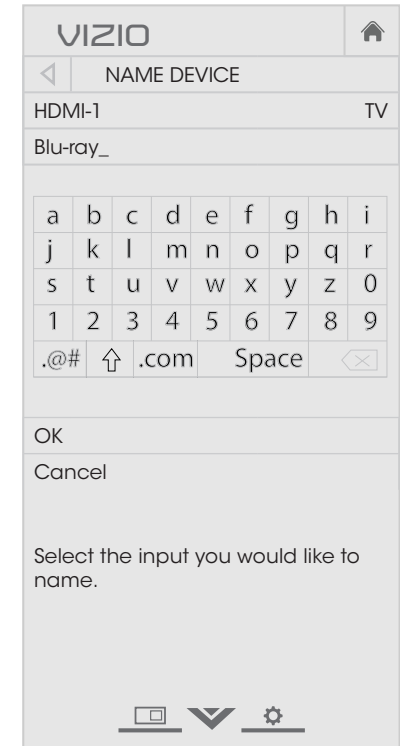
1. Press the **MENU** button on the remote. The on-screen menu is displayed.
2. Use the **Up/Down Arrow** buttons on the remote to highlight **Devices** and press **OK**. The DEVICES menu is displayed.
3. Use the **Up/Down Arrow** buttons on the remote to highlight the Input you wish to name and press **OK**. The NAME DEVICE menu is displayed.



4. If you would like to use a preset input label, highlight the input 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. Enter your custom label using the on-screen keyboard and press **OK**.

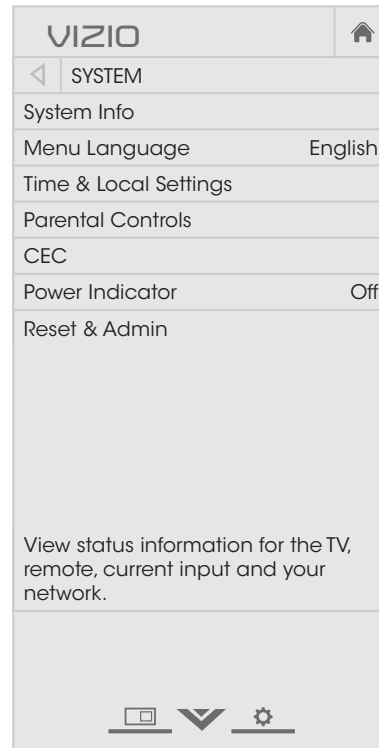
5. When you have finished naming your input, press the **EXIT** button on the remote.



CHANGING THE TV SETTINGS

Using the settings menu, you can:

- View system information
- Set up parental controls
- Change the on-screen menu language
- Set the time
- Adjust the CEC settings
- Adjust when the power indicator is illuminated
- Reset the TV settings & set up administrative controls



Viewing 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 **System** and press **OK**. The System 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.

Using the Parental Controls

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

The Parental Controls menu only appears when:

- You are using an the tuner receive your TV signals, such as when you are using an antenna for Over-the-Air signals or when connected to cable TV directly from the wall (no cable box).
- You have a device connected using a composite video cable or a coaxial cable, such as a VCR, satellite or cable box, or DVR.

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 **System** and press **OK**. The SYSTEM 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 37.

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:

- 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.
- 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**.
- When the rating type is **blocked**, the **Lock** icon appears **locked**. Content with this rating and all higher ratings cannot be viewed.
- When the rating type is **unblocked**, the **Lock** icon appears **unlocked**. Content with this rating and all lower ratings can be viewed.

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

To change the parental control passcode:

- From the Parental Controls menu, highlight **Change PIN** and press **OK**. The CHANGE PIN menu is displayed.
- In the **New PIN** field, use the **Number Pad** on the remote to enter your new 4-digit parental control passcode.
- In the **Confirm PIN** field, use the **Number Pad** on the remote to re-enter your new 4-digit parental control passcode.
- Write down your new parental control passcode and save it in a secure location.
- Press the **EXIT** button on the remote.

Resetting the Content Locks

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

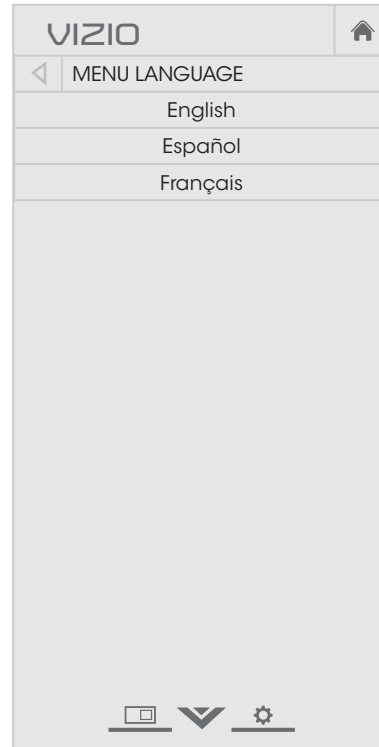
- From the PARENTAL CONTROLS menu, highlight **RESET LOCKS** and press **OK**. The TV displays, "Are you sure you want to RESET ALL LOCKS SETTINGS to the factory defaults?"
- Highlight **Yes** and press **OK**.

Changing the On-Screen Menu Language

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

To change the on-screen menu language:

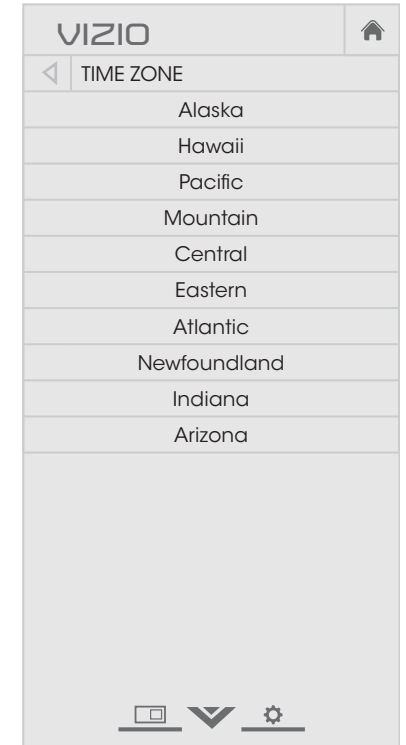
1. Press the **MENU** button on the remote. The on-screen menu is displayed.
2. Use the **Arrow** buttons on the remote to highlight **System** and press **OK**. The SYSTEM menu is displayed.
3. Use the **Arrow** buttons on the remote to highlight **Menu Language** and press **OK**. The MENU LANGUAGE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



Setting the Time Zone

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 **System** and press **OK**. The SYSTEM menu is displayed.
3. Use the **Arrow** buttons on the remote to highlight **Time and 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 your locale observes daylight savings time, or **Off** if it does not.
7. Highlight **Postal Code**. Enter your postal (ZIP) code using the keypad on the remote, then press **OK**. Postal codes are often used by V.I.A. Plus Apps to give you the most accurate location-based information, such as weather or news.
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 **System** and press **OK**. The SYSTEM menu is displayed.
3. Use the **Arrow** buttons on the remote to highlight **CEC** and press **OK**. The CEC menu is displayed.
4. Use the **Arrow** and **OK** buttons to adjust each setting:
 - **CEC Function** - To use CEC, you must select **Enable**.
 - **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.

Turning the Power Indicator On or Off

The Power Indicator on the front of your TV normally does not glow when the TV is on. You can change this setting if you prefer the light to be on.

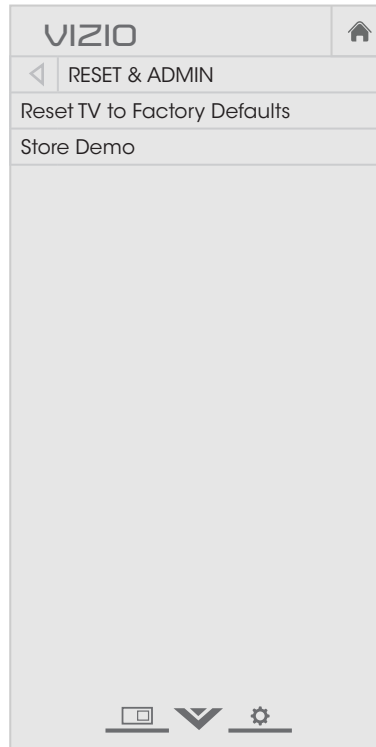
To turn the Power Indicator Light on or off:

1. Press the **MENU** button on the remote. The on-screen menu is displayed.
2. Use the **Arrow** buttons on the remote to highlight **System** and press **OK**. The System menu is displayed.
3. Highlight **Power Indicator** and press **OK**.
4. Use the **Up/Down Arrow** buttons to select **On** or **Off**, then press **OK**.

USING THE RESET & ADMIN MENU

You can use the TV's Reset & Admin menu to:

- Restore the TV to its factory default settings
- Start the Store Demo



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!

This includes any V.I.A. Plus Apps that you have added and any changes you have made to the settings for those Apps.

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 **System** and press **OK**. The System menu is displayed.
3. Highlight **Reset & Admin** and press **OK**. The Reset & Admin menu is displayed.
4. Highlight **Reset TV to Factory Defaults** and press **OK**.
5. Enter your parental control passcode. If you have not yet set up a parental passcode, enter the default, **0000**.

The TV displays, "Select Reset to restore all TV settings to factory defaults and clear all account information."

6. Highlight **Reset** and press **OK**.
7. Wait for the TV to turn off. The TV will turn back on shortly afterward and the Setup App will begin.

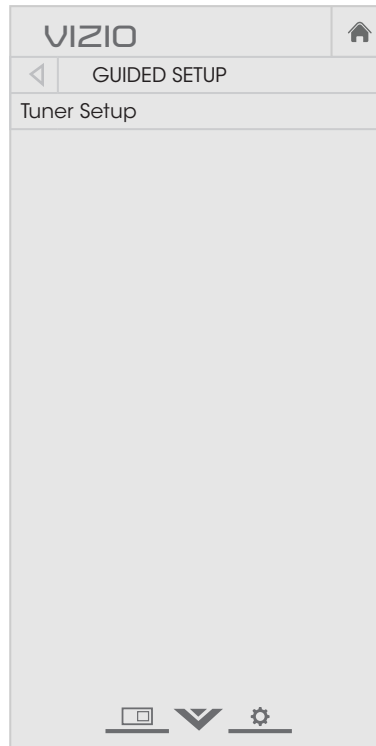
USING THE GUIDED SETUP MENU

Using Guided Setup

The TV's Setup App can be used to easily set up the TV tuner or to connect the TV with your network.

To use guided setup:

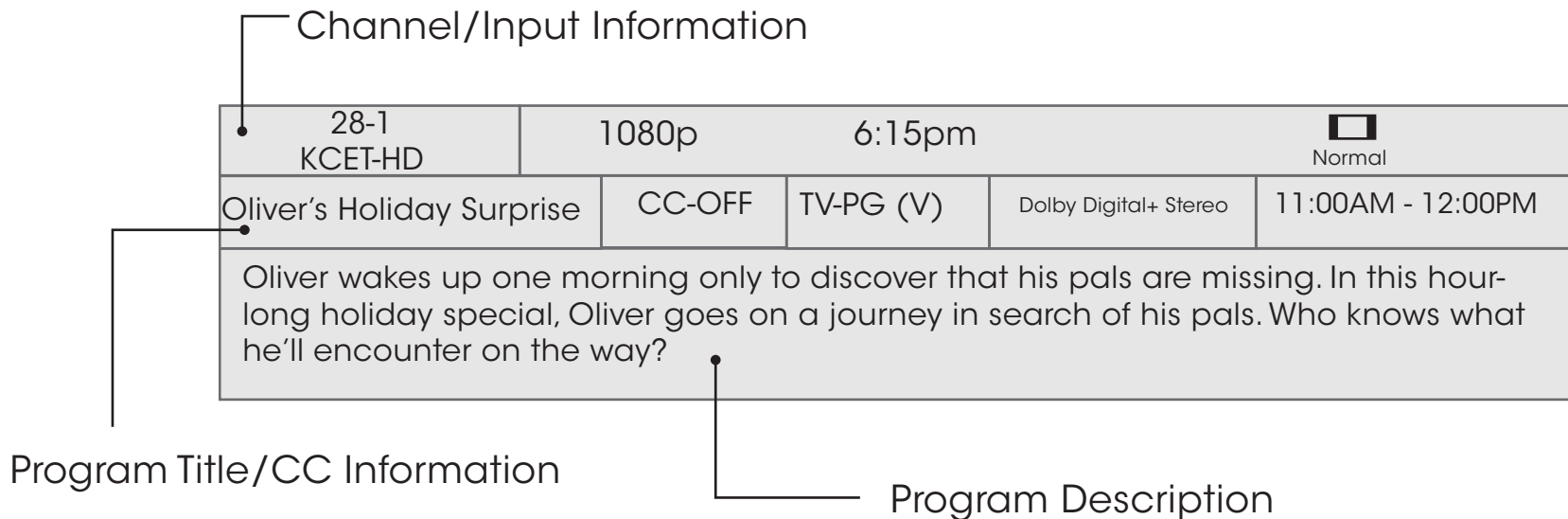
1. Press the **MENU** button on the remote. The on-screen menu is displayed.
2. Highlight **Guided Setup** and press **OK**.
3. Highlight the guided setup you want to use and press OK:
 - **Tuner Setup** - Set up the TV tuner.
4. Follow the on-screen instructions. When finished, press the **EXIT** button on the remote.



USING THE INFO WINDOW

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

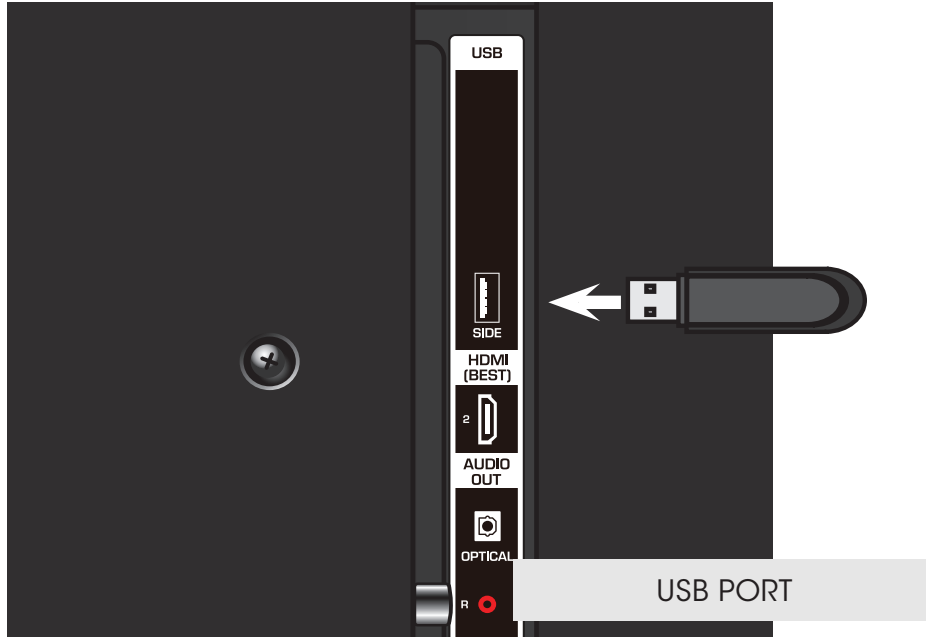
- Press the **INFO** or **GUIDE** button one time to display channel, input, and display information.
- Press the **INFO** or **GUIDE** button two times to display the program title, program rating, audio information, and the start and end times of the program.



DIGITAL EPISODE GUIDE & INFO WINDOW

USING THE USB MEDIA PLAYER

The USB Media Player allows you to connect a USB thumb drive to your TV and view photos.



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.



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).

To play your USB media:

1. Connect your USB thumb drive to the USB port on the side of the TV.
2. Highlight the **Media App** and press **OK**. The Media App launches.
3. Highlight your USB device in the list 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 file plays.



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

Connected Sources
Displays connected USB devices. To change source, highlight it and press **OK**.

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

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.

Current Folder
root

Start Fullscreen Slideshow
Start Slideshow

Sort by Name
Sort: Name A-Z

View Thumbnails/List
View: Thumbnails

View Folder Settings
Settings

Photo Information
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, you can move between pages by highlighting this area and pressing **Left/Right Arrow**.

File Name: D 1920x1080
Resolution: 1920x1080
Size: 1607270KB

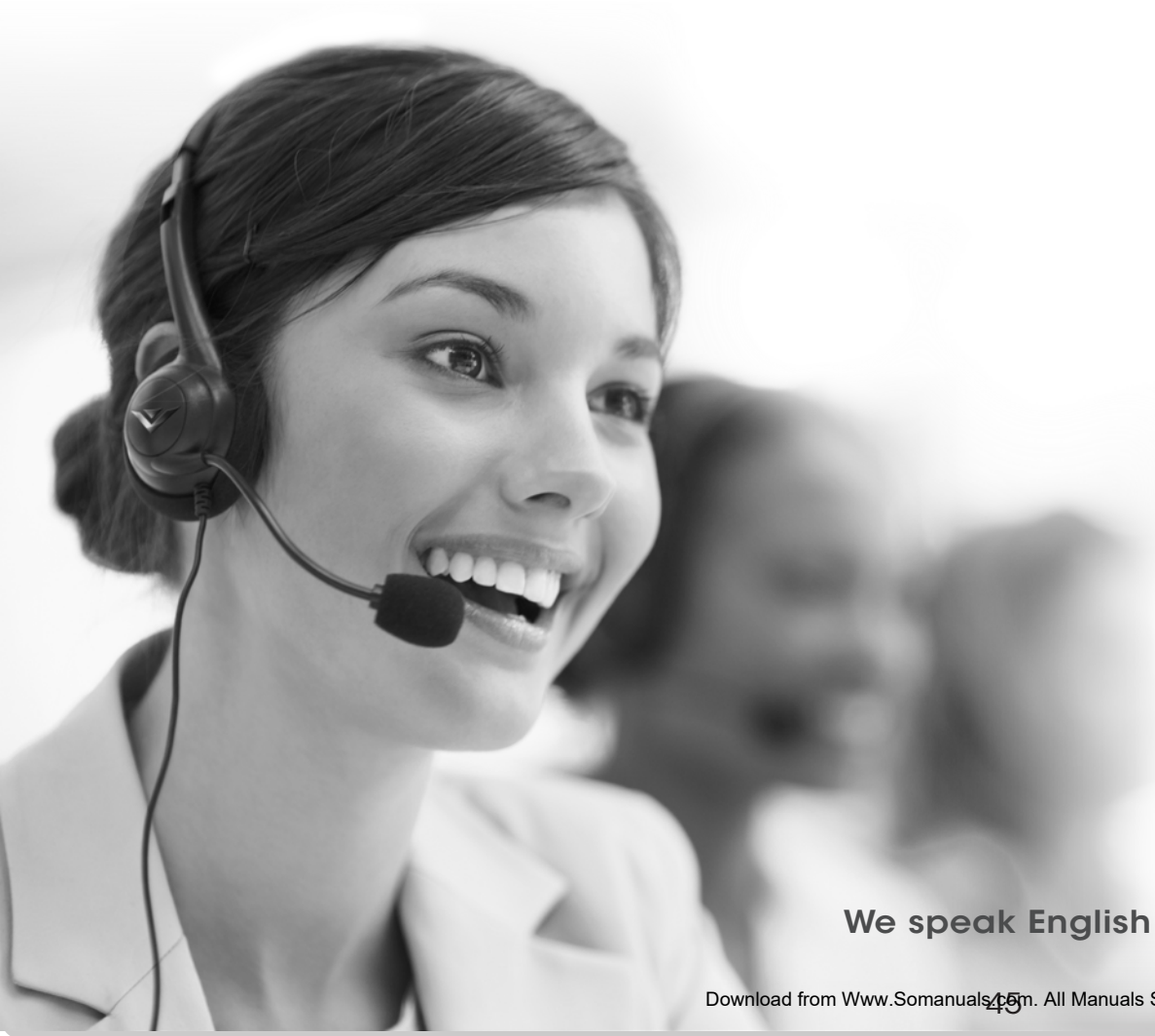
Page 1 of 1

PHOTO VIEWER

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 8 PM (PST)

Saturday - Sunday: 7 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 29.

There is no power.

- Ensure the TV is plugged into a working electrical outlet.
- Ensure the power cable is securely attached to the TV.
- 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. See *Adjusting the Advanced Picture Settings* on page 20.
- 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 26. Ensure the speakers are set to On.
- Ensure no headphones are connected to the TV.
- 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 *Adjusting the Picture Settings* on page 19.
- 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 9.

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 fluorescent 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 occurrences 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 noticeable.
- 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 noticeable.
- See *Changing the Screen Aspect Ratio* on page 18.

E320-B0

Screen Size:

32" Class

Viewable Area:

31.50"

Dimensions w/ Stand:

28.43" x 18.55" x 6.87"

w/o Stand:

28.43" x 16.83" x 2.48"

Weight w/ Stand:

9.92 lbs

w/o Stand:

9.26 lbs

TV Type:

DLED

Refresh Rate:

60 Hz

Maximum Resolution:

1366 x 768

Pixel Pitch:

.510 mm x .510 mm

Response Time:

7 ms

Brightness:

300 nits

Viewing Angle:

176° (H) / 176° (V)

HDMI Inputs:

2

Component Video Inputs:

1

Composite Inputs:

1 (Shared with Component)

RF Antenna Input:

1

USB 2.0 Ports:

1

Audio Outputs:

Stereo RCA Output,
Optical Digital

E320-B0

OSD Language: English, Spanish, French

Ambient Light Sensor: Yes

Remote Control Model: XRT020

Certifications: CSA, CSA-US, FCC Class B,
HDMI, Dolby digital

Compliance: Energy Star

Voltage Range: 108~132V @ 50/60 Hz

Power Consumption: 29.8W

Standby Power: <1W

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 5:00AM 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 WARRANTY SERVICE. If this occurs, your product will be restored to you configured as originally purchased. You will be responsible for restoring all applicable data and passwords. Recovery and reinstallation of user data is not covered under this Limited Warranty. In order to protect your personal information, 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.

Other

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