VIZIO

USER MANUAL

Model D43-C1

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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 more information on the ENERGY STAR program, refer to energystar.gov.

THANK YOU FOR CHOOSING VIZIO

Congratulations on the purchase of 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) 698-4946.

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 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 with one wider than the other. A grounding type plug has two blades and a third grounding prong. The wide blade or the third prong are provided for your safety. If the provided plug does not fit into your outlet, consult an electrician for replacement of the obsolete outlet.
- 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 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.

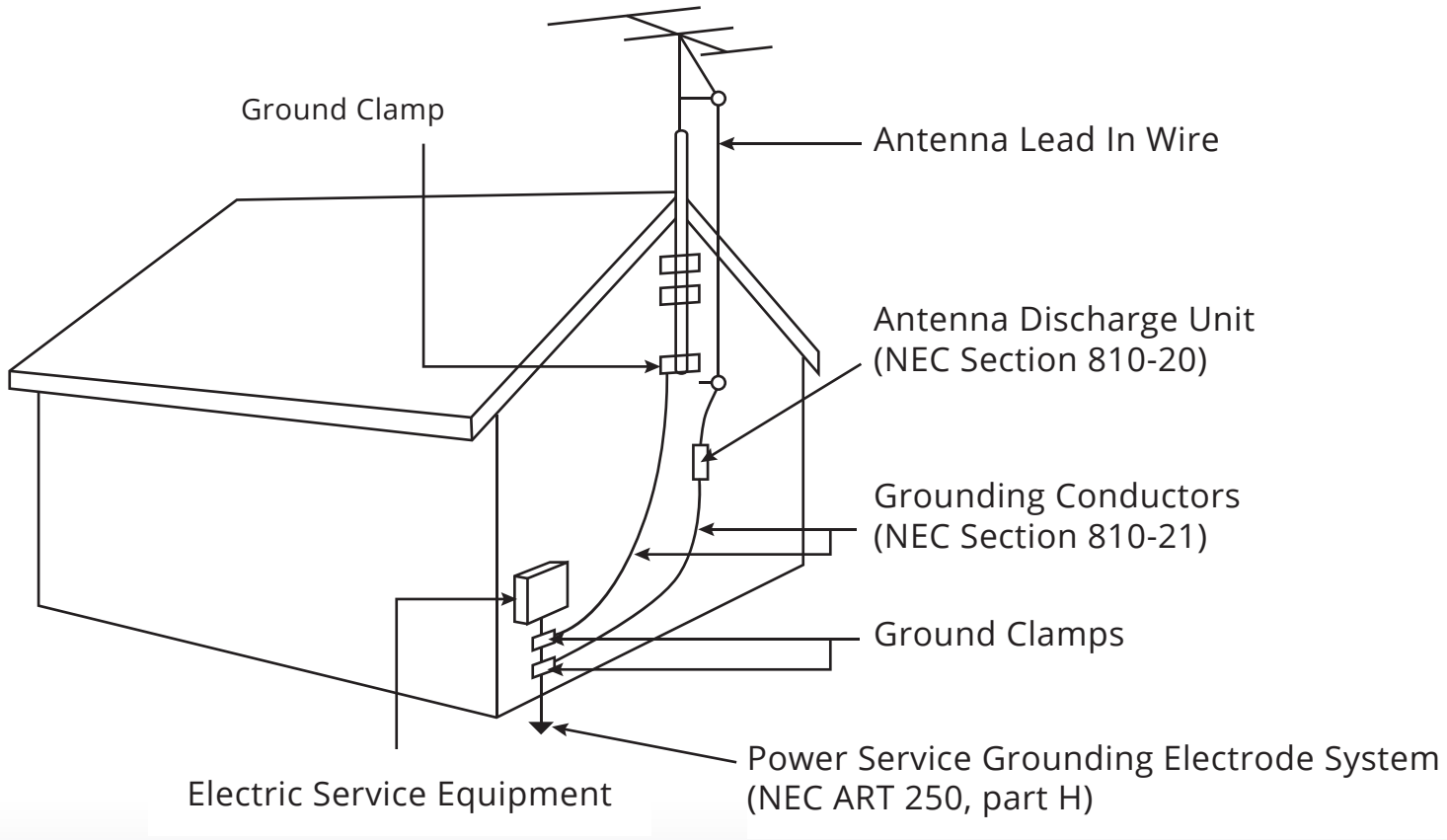
Article 810 of the National Electrical Code, ANSI/NFPSA 70, provides information with regard to proper grounding of the mast and supporting structure, grounding of the lead-in wire to an antenna discharge unit, size of the grounding conductors, location of antenna discharge unit, connection to grounding 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.



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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

Remote control
with batteries

TV stands

Quick Start Guides
(1 English, 1 French/Spanish)

Power cord

4 x M4 28mm
Phillips screws

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)

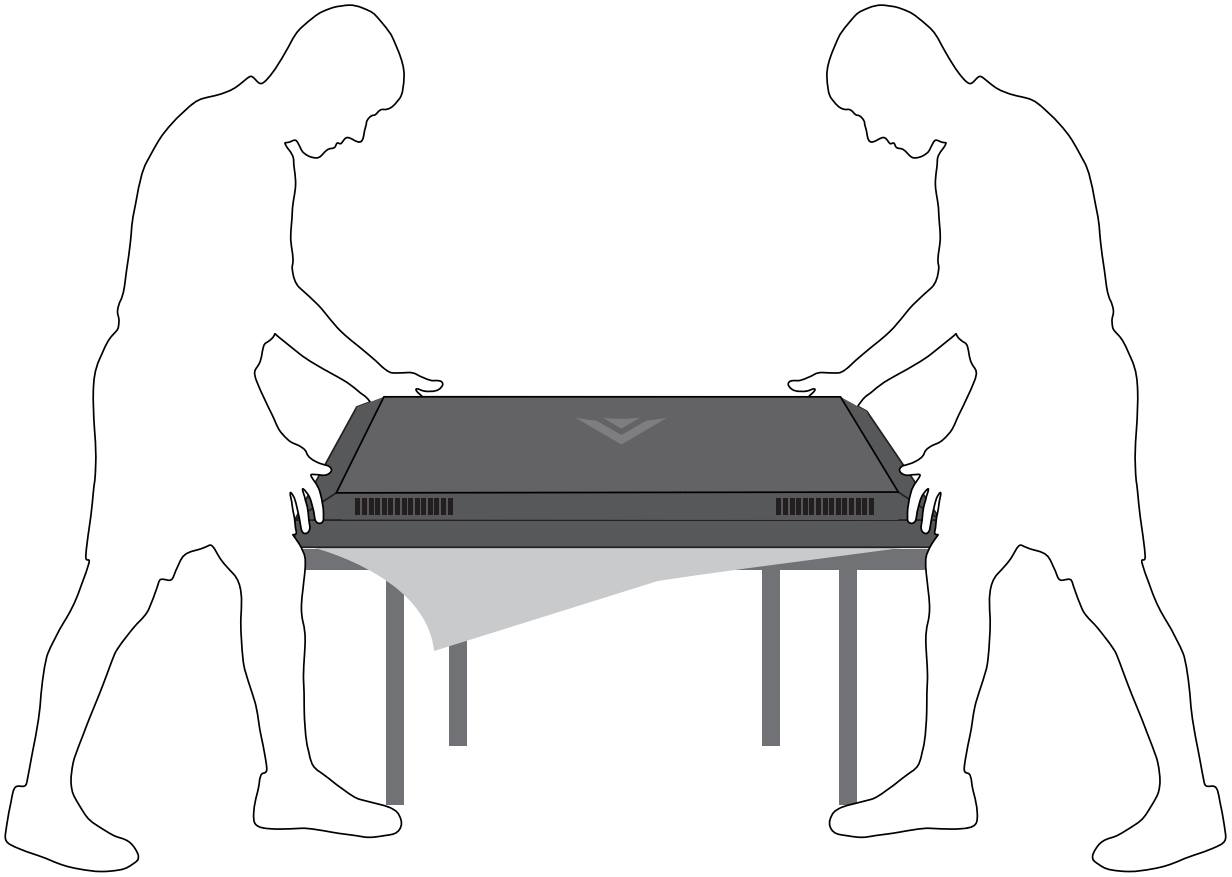
Installing the TV Stand

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 STANDS

Installing the Stand



It is recommended that two people take part in the stand installation.

Remove any plastic wrapping from the TV and the stand.

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 a blanket and avoid any sharp edges.

Insert the left and right stands into the base of the TV.

Insert two (2) M4 28 mm Phillips screws (included) into the back of the TV and tighten them using a Phillips screwdriver, to secure each stand to the TV.

When you are finished, place the TV on a stable, level surface.

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.

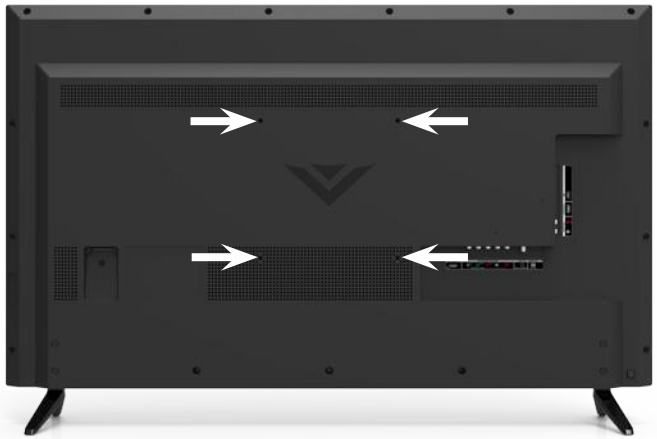
	D43-C1
Screw Size:	M6 (not included)
Hole Pattern:	200 mm (V) x 200 mm (H)
Weight w/o Stand:	19.40 lbs

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.

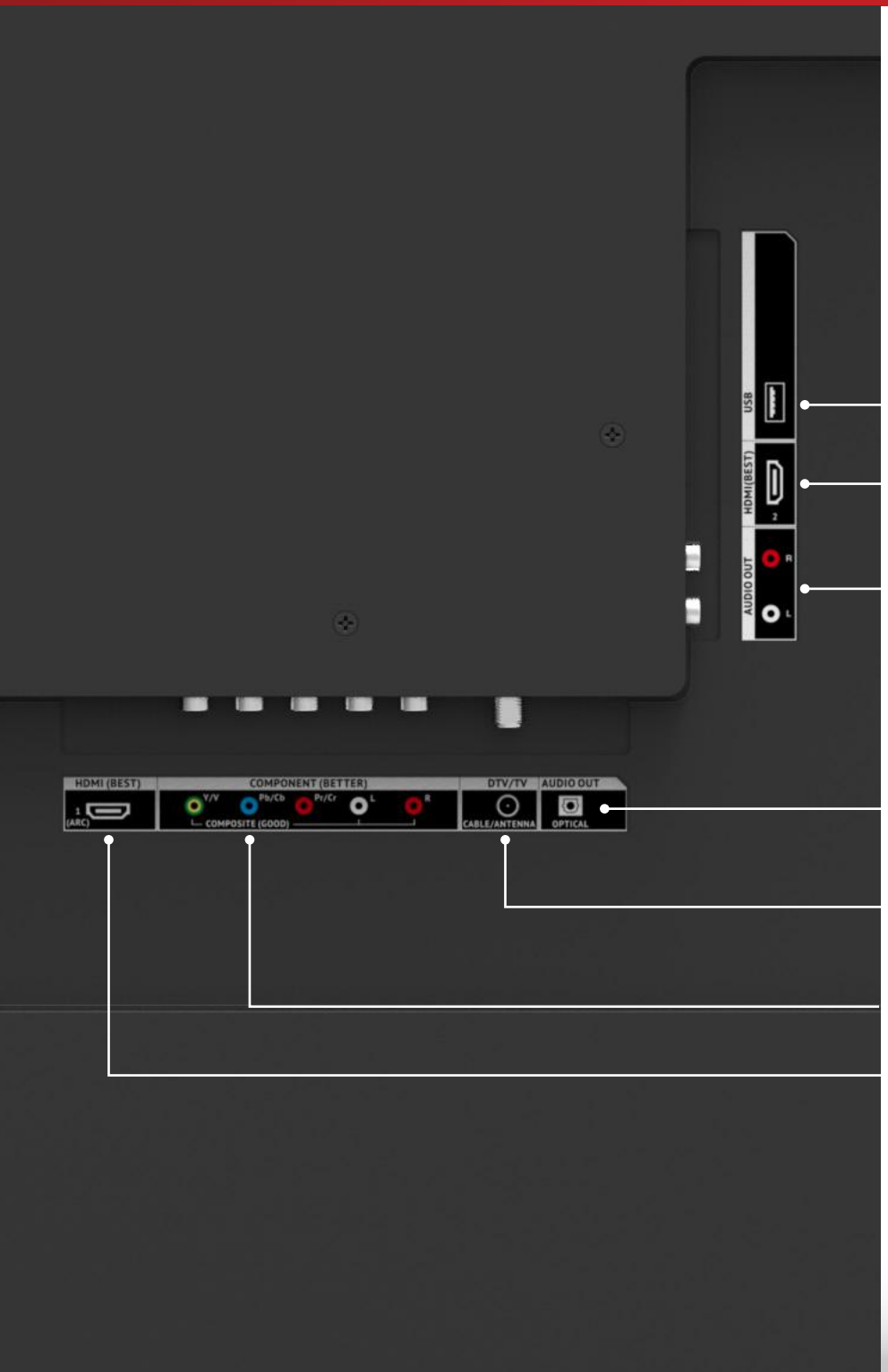
   Use only with a UL-listed wall mount bracket rated for the weight/load of this TV.



WALL MOUNT SCREW LOCATIONS

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

Controls and Connections 2



USB - Connect a USB thumb drive to display photos.

HDMI - Connect an HDMI device.

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

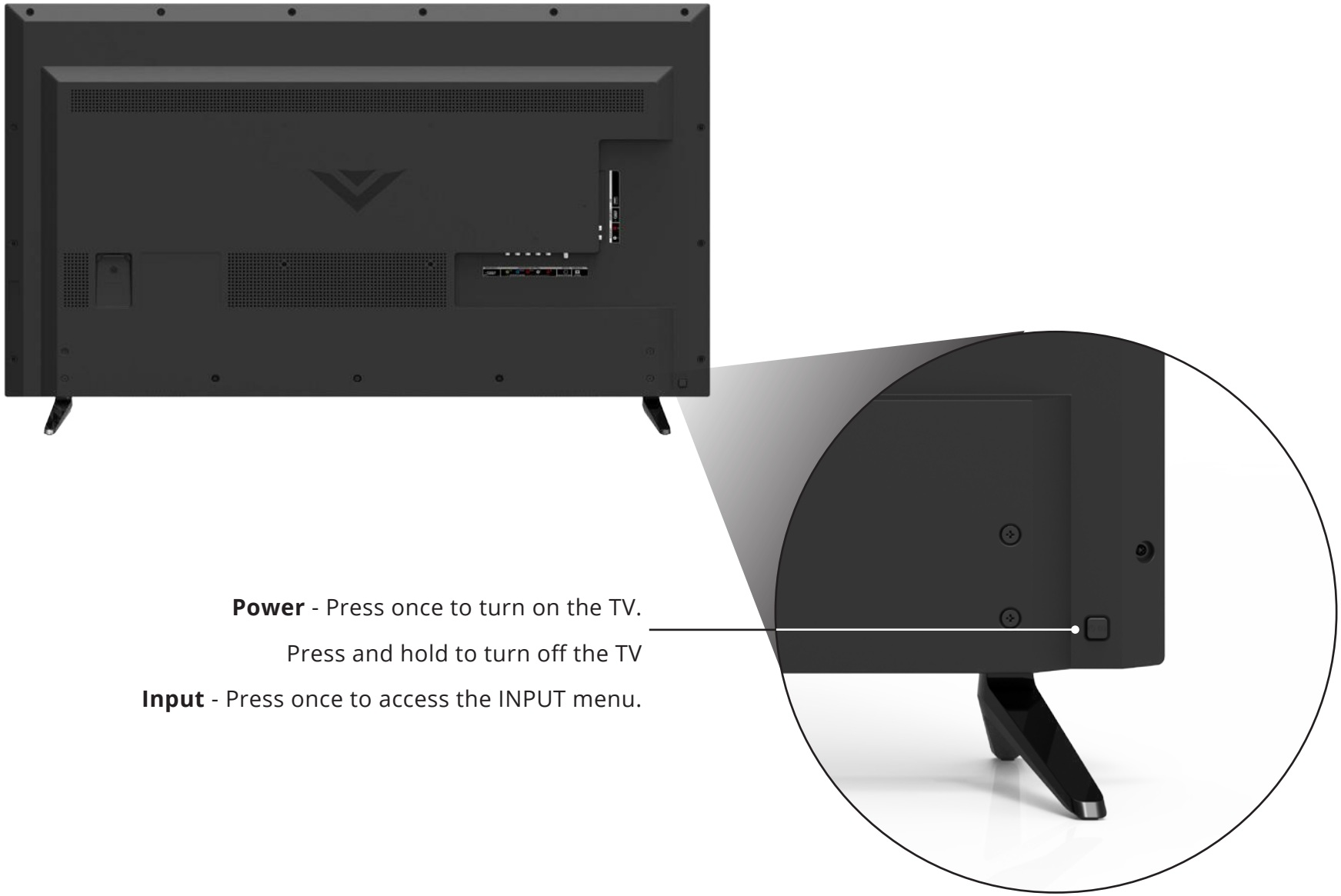
Optical Audio Out - Connect an optical/SPDIF audio device, such as a home audio receiver or sound bar.

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

Component/Composite - Connect a component or composite device.

HDMI - Connect an HDMI device.

BACK PANEL



Power - Press once to turn on the TV.

Press and hold to turn off the TV

Input - Press once to access the INPUT menu.

SIDE PANEL

FRONT 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 45.

USING THE REMOTE

INPUT
Change the currently-displayed input.

A/V CONTROLS
Control USB media player.

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 the 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 media player.

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.

CONNECTING A DEVICE

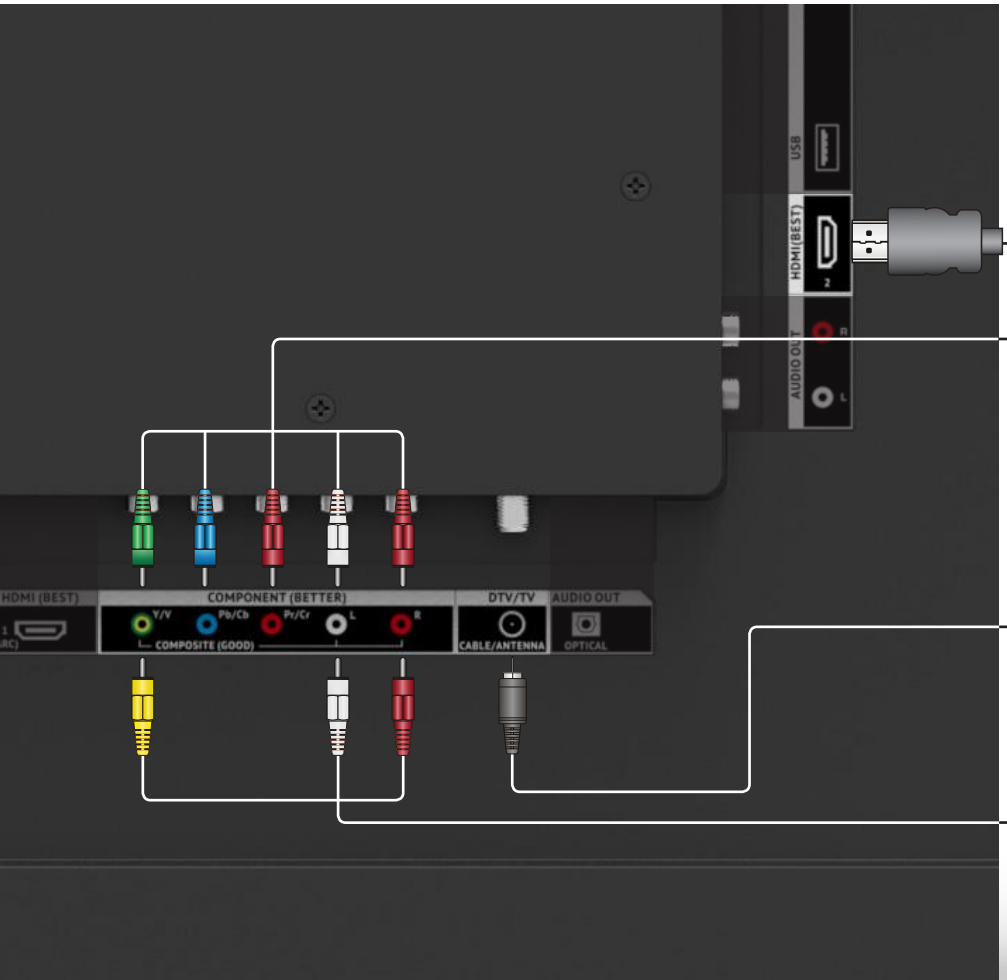
Your TV can be used to display output from most devices.

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-1, HDMI-2, etc.).

Cable/Satellite Box

DVD/Blu-ray Player

Game Console



HDMI CABLE
BEST
- DIGITAL
- HD VIDEO (1080p)*
- HD AUDIO

COMPONENT CABLE
BETTER
- ANALOG
- HD VIDEO (1080p)*
- STEREO AUDIO

COAXIAL CABLE
BETTER
- ANALOG
- HD VIDEO (1080i)*
- STEREO AUDIO

AV CABLE
GOOD
- ANALOG
- VIDEO (480i)*
- STEREO AUDIO

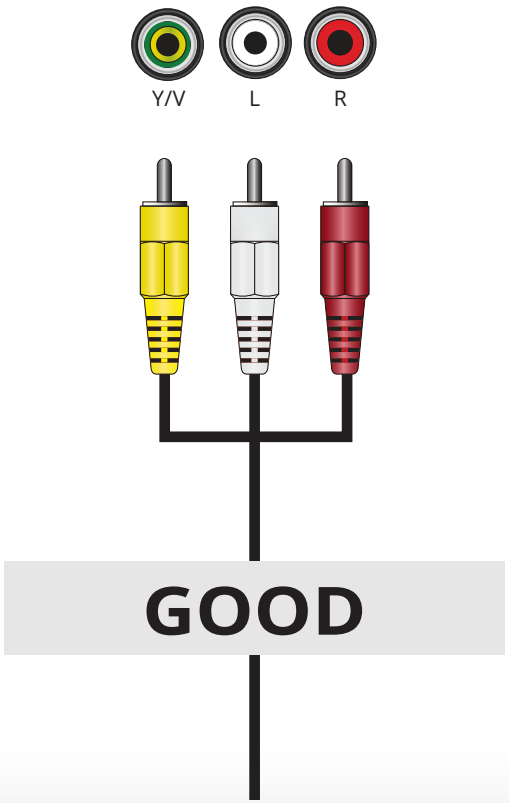
* Maximum resolution

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.

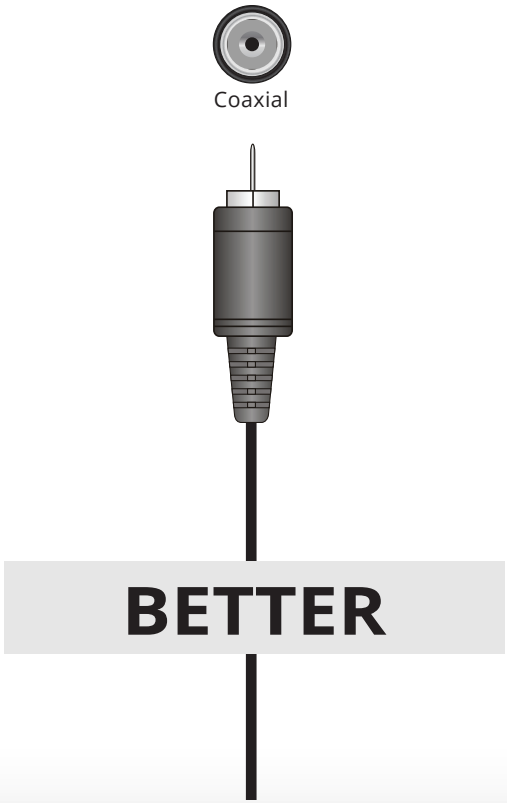
- **Video Resolutions up to 480i**
- **Analog Connection**
- **Audio and Video Signals**



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.

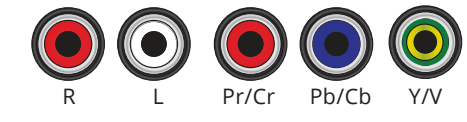
- **HD Video Resolutions up to 1080i**
- **Analog Connection**
- **Audio and Video Signals**

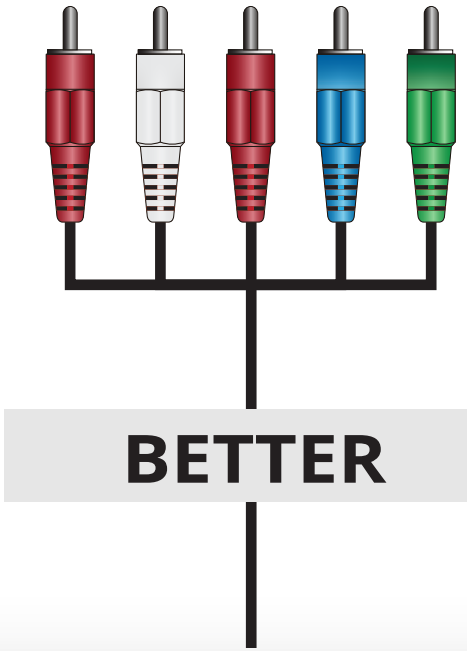


COMPONENT CABLE

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 1080p**
- **Analog Connection**
- **Audio and Video Signals**



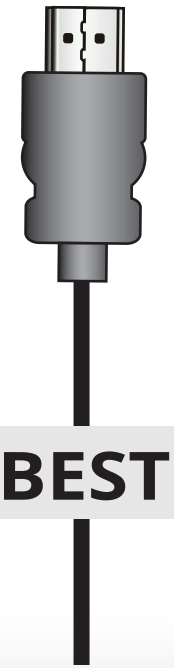


BETTER

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**

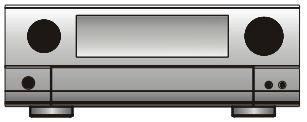


BEST

CONNECTING AN AUDIO DEVICE

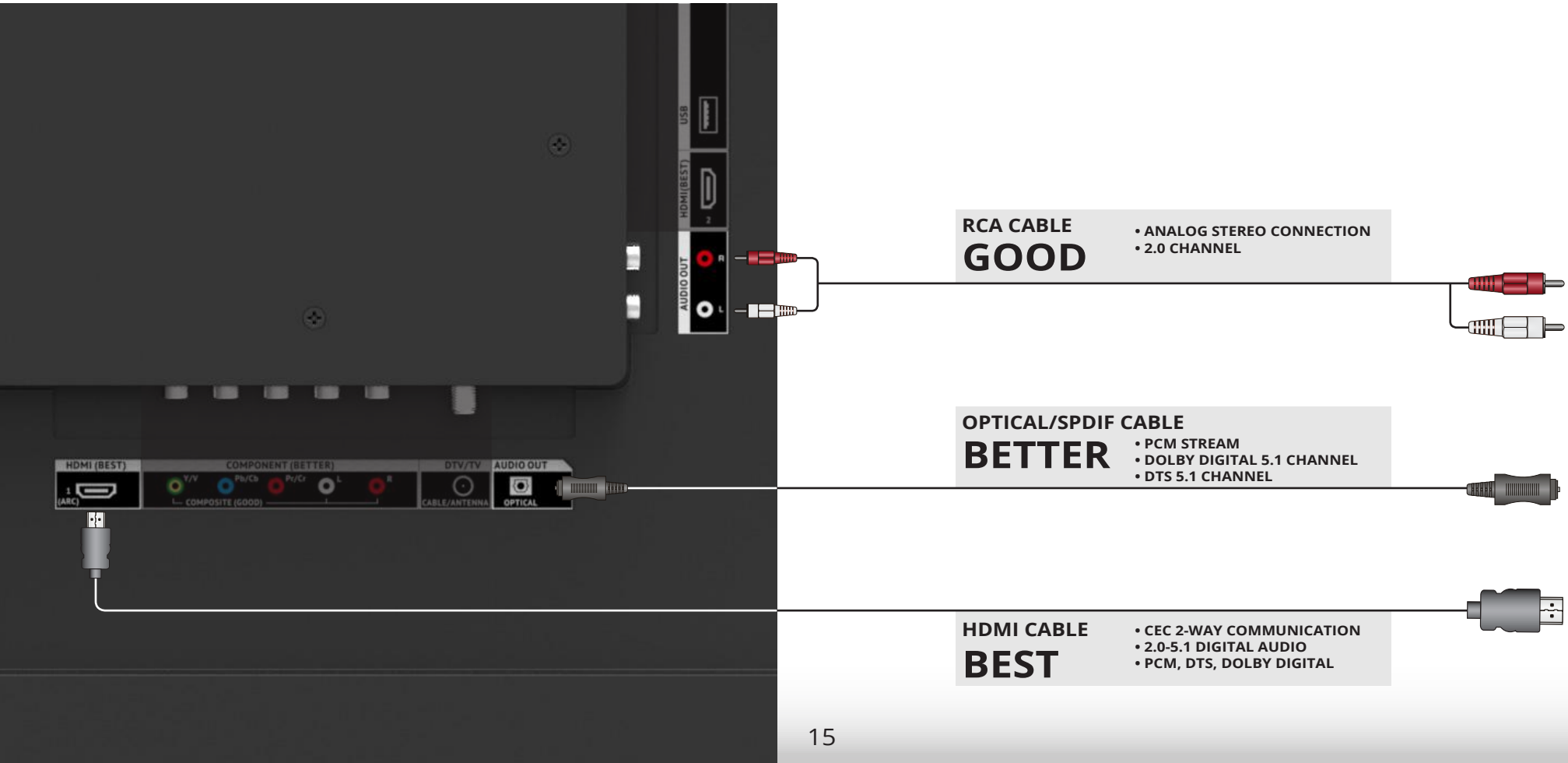
Your TV can output sound to an audio device, such as a receiver or sound bar.

1. Verify that your device has an audio port that matches an available port on the TV (optical, 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



RCA CABLE
GOOD
- ANALOG STEREO CONNECTION
- 2.0 CHANNEL

OPTICAL/SPDIF CABLE
BETTER
- PCM STREAM
- DOLBY DIGITAL 5.1 CHANNEL
- DTS 5.1 CHANNEL

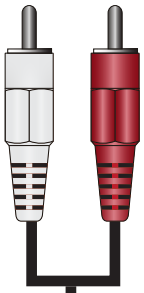
HDMI CABLE
BEST
- CEC 2-WAY COMMUNICATION
- 2.0-5.1 DIGITAL AUDIO
- PCM, DTS, DOLBY DIGITAL

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.

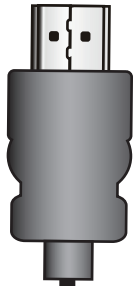
- **PCM Stream (Lossless)**
- **Dolby Digital 5.1 Channel**
- **Digital Connection**
- **Audio Signal Only**

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 17.

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

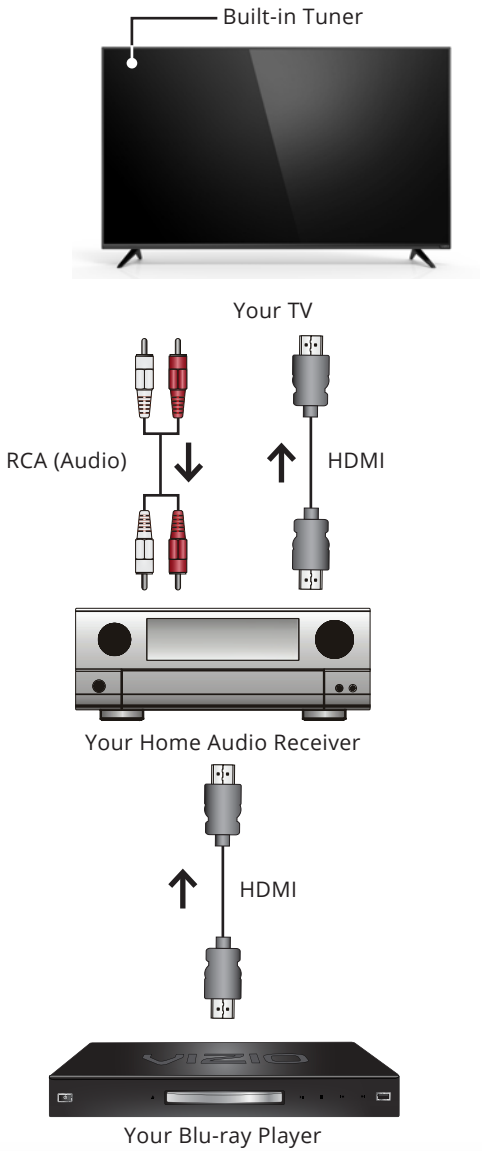


BEST

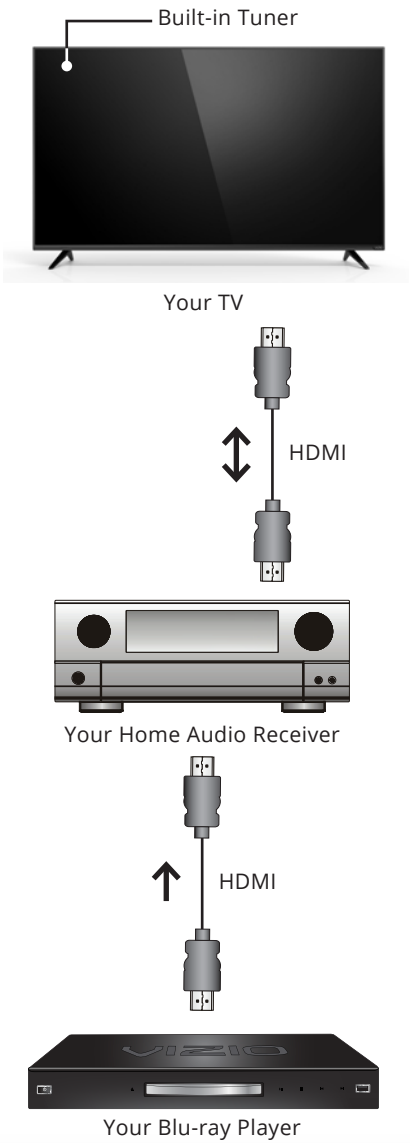
CONNECTING AN AUDIO DEVICE - ARC

Without HDMI ARC

Without an HDMI ARC setup, your TV will transmit audio signals from the built-in tuner and VIA apps to your home audio receiver through a separate audio connection.



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.

Completing the First-Time Setup 4

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.

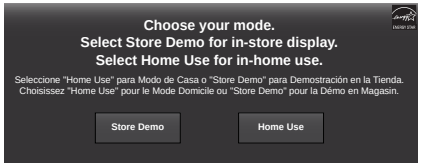
Before you begin the first-time setup:

- 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 then press the **OK** button.

4. Use the **Arrow** buttons on the remote to highlight your TV source and press **OK**.

If you have cable TV, select whether you have a cable box or if you connect the TV directly to a cable from the wall.

5. If the TV Signal channel scan screen appears, the TV will scan for channels, which takes several minutes. Use the arrow buttons on the remote to highlight **Begin Scan** and press **OK**.

Otherwise, use the **Arrow** and **OK** buttons on the remote to select the input your TV source is connected to.

(The number of inputs may vary depending on your TV.)

6. When you are finished, the message "Your VIZIO TV is set up" will appear.

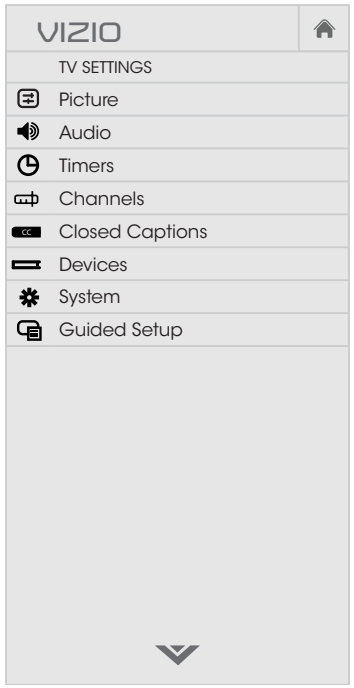
The First-Time Setup is complete.

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

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

From this menu, you can:

- Adjust the Picture settings
- Adjust the Audio settings
- Set the Sleep Timer
- Adjust the Channel settings
- Set up Closed Captioning
- Select input devices
- 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.

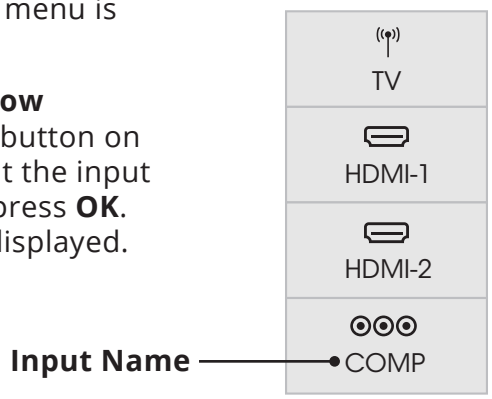
While navigating the on-screen menu, you can press the **BACK** button at any time to return to the previous menu screen. The **EXIT** button will close the on-screen menu.

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 using the Input menu.

To change the input source:

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.



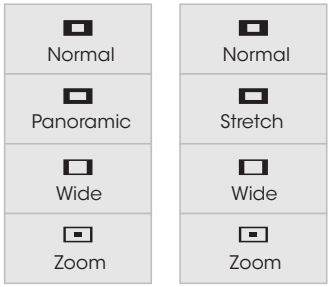
You can change the input names that appear on the Input menu to make your devices easy to recognize. See *Renaming Devices on the Input Menu* on page 38 for more information.

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.

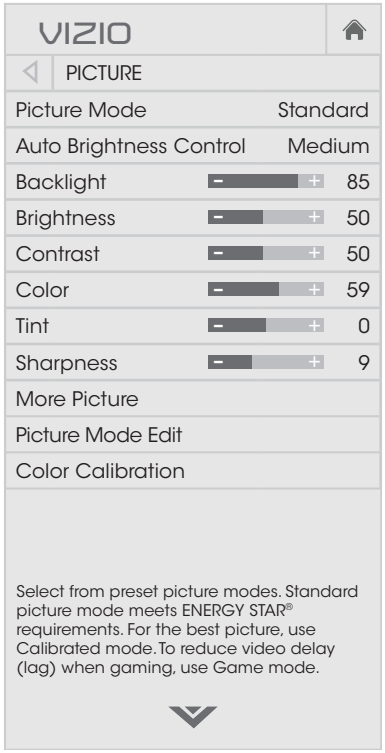
ADJUSTING THE PICTURE SETTINGS

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

When changes are made while a preset picture mode is selected, an asterisk appears after the name of the picture mode. These settings can be saved as a new custom picture mode and the preset mode can be reset to its default settings. (see Creating a Custom Picture Mode on page 23).

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

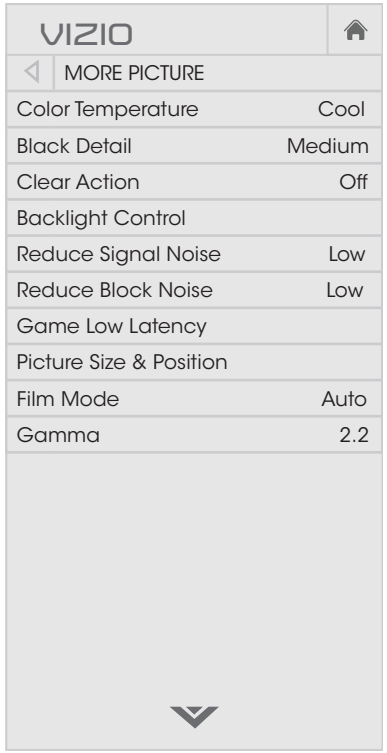


4. To manually change each of the picture settings, use the **Up/Down Arrow** buttons on the remote to highlight that picture setting, then use the **Left/Right Arrow** buttons to adjust the setting:
   - **Auto Brightness Control** - Detects the light levels in the room and automatically adjusts the backlight for the best picture. Select **Off**, **Low**, **Medium**, or **High**.
   - **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.
5. When you have finished adjusting the picture settings, press **BACK** to adjust additional settings or **EXIT**.

Adjusting the More Picture Settings

To adjust the More Picture settings:

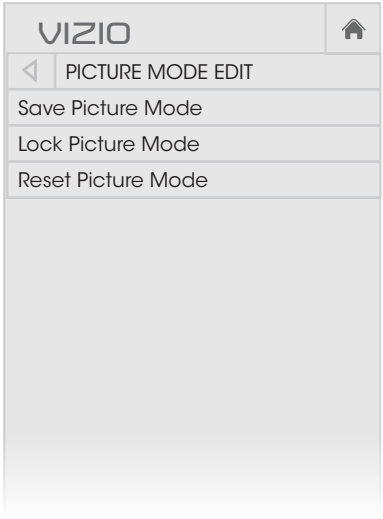
1. From the PICTURE menu, use the **Arrow** buttons to highlight **More Picture**, and then press **OK**. The MORE PICTURE menu is displayed.



2. 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**.
     - **Cool** produces a blue-hued picture.
     - **Normal** is optimized for television viewing.
     - **Computer** optimizes the picture for use as a PC monitor.
   - **Black Detail -** Adjusts the average brightness of the picture to compensate for large areas of brightness. Select **Off**, **Low**, **Medium**, or **High**.
   - **Clear Action** - Reduces blur in scenes with fast action. Some sensitive viewers may notice flicker. Select **On** or **Off**.
   - **Backlight Control -** Dynamically improves the contrast ration of the picture by adusting the backlight. Select **Off** or **On**.
   - **Reduce Signal Noise -** Reduces background picture noise when viewing analog sources. The function helps to correct "speckle" noise with a slight reduction in sharpness.Select **Off**, **Low**, **Medium**, or **High**.
   - **Reduce Block Noise -** Reduces pixelation and distortion for mpeg files. Select **Off**, **Low**, **Medium**, or **High**.
   - **Game Low Latency -** Reduces video delay (lag) when gaming. Select **Off**, or **On**. This option is not available for devices connected using a coaxial cable.
   - **Picture Size & Position - Picture Size** increases or decreases the vertical and horizontal size of the displayed picture. **Picture Position** adjusts 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 **OK** button when you are finished.
   - **Film Mode** - Optimizes the picture for watching film. Select **Auto** or **Off**.
   - **Gamma** - Sets the shape of the gamma curve. Use lower values for bright room conditions and higher values when it is dark. Select **1.8**, **2.0**, **2.1**, **2.2**, or **2.4**.
3. When you have finished adjusting the More Picture settings, press **BACK** to adjust additional settings or **EXIT**.

Adjusting the Picture Mode Edit Settings

To adjust the Picture Mode Edit settings:



1. From the PICTURE menu, use the **Arrow** buttons to highlight **Picture Mode Edit**, and then press the **OK** button. The PICTURE MODE EDIT menu is displayed.
2. Use the **Arrow** buttons to highlight the setting you wish to adjust, then press the **Left/ Right Arrow** buttons to change the setting:
   - **Save Picture Mode -** Saves the settings for a custom picture mode.
   - **Lock Picture Mode -** Prevent/ allow changes to the currently selected custom picture mode. Select **On** or **Off**.
   - **Reset Picture Mode -** Resets the picture mode settings to factory default values.
3. When you have finished adjusting the Picture Mode Edit settings, press **BACK** to adjust additional settings or **EXIT**.

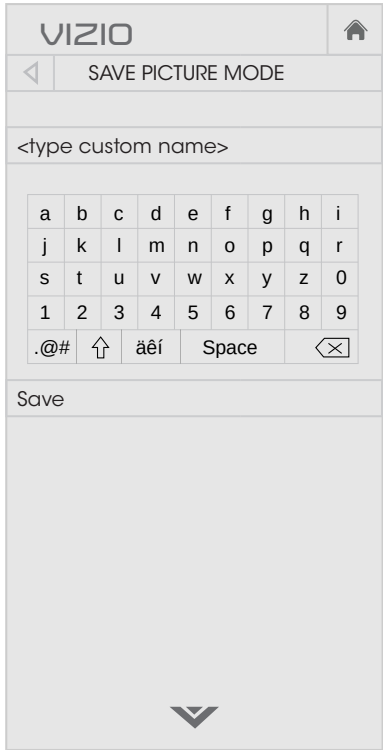
Creating a Custom Picture Mode

Custom picture modes allow you to save a group of custom settings for various viewing conditions and video sources.

When changes are made while a preset picture mode is selected, an asterisk appears after the name of the picture mode. These settings can be saved as a new custom picture mode and the preset mode can be reset to its default settings.

A custom picture mode only applies to the input (HDMI-1, HDMI-2, COMP, AV, etc.) in use when it was created. Each input can have up to six custom picture modes.

To create a custom picture mode:

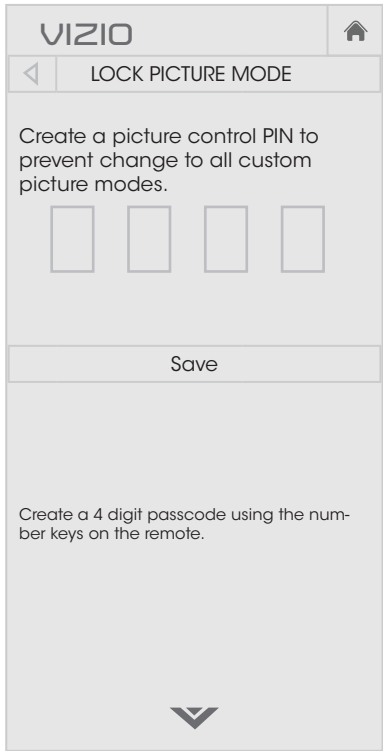


1. Set the Picture Mode to an existing custom setting. See *Adjusting the Picture Settings* on page 21.
2. From the PICTURE menu, use the **Arrow** buttons to highlight **Picture Mode Edit** and press **OK**. The PICTURE MODE EDIT menu is displayed.
3. On the PICTURE MODE EDIT menu, select **Save Picture Mode.** The SAVE PICTURE MODE menu is displayed.
4. Use the **Arrow** buttons to enter a custom name using the on-screen keyboard.
5. Highlight **Save** and press **OK**.
6. Press the **EXIT** button to exit the menu screens.

Locking and Unlocking the Custom Picture Modes

Custom picture modes can be locked with a unique PIN to prevent accidental changes to their settings.

To lock all custom picture modes:



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

To unlock all custom picture modes:

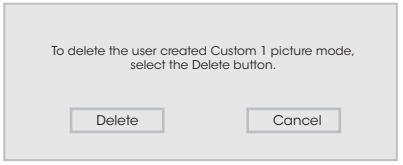
5. From the PICTURE menu, use the **Arrow** buttons to highlight **Picture Mode Edit** and select **Lock** or **Unlock Picture Mode**, then press **OK**. The LOCK PICTURE MODE menu is displayed.
6. Use the **Number Pad** on your remote to enter your 4-digit PIN.
7. Make any desired changes to the picture modes.
8. To relock picture modes, you must create a new 4-digit PIN.

Deleting a Custom Picture Mode

Custom picture modes that are no longer needed can be deleted.

Inputs assigned to a deleted custom picture mode become assigned to the *Calibrated* picture mode.

To delete a custom picture mode:



1. From the PICTURE menu, use the **Arrow** buttons to highlight **Picture Mode Edit** and select **Lock** or **Unlock** Picture Mode, 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 **BACK** button to adjust additional settings or **EXIT**.

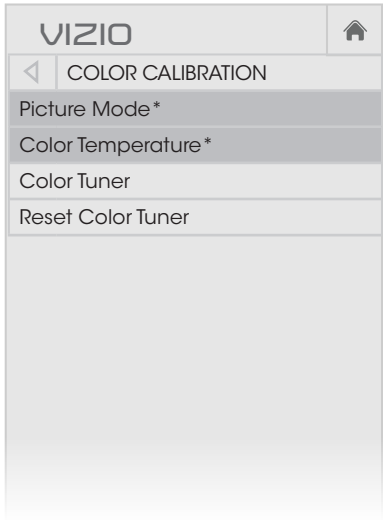
Adjusting the Color Calibration Settings

Color Calibration Settings allow you to make precise adjustments to the picture and to create picture modes to save groups of picture settings.

> The Color Tuner, 11 Point White Balance, and test patterns allow technicians to manually calibrate the TV. Calibration requires specialized training, an input with precisely set colors, and a specialized light meter.

To adjust the color calibra picture settings:

1. From the PICTURE menu, use the **Arrow** buttons to highlight **Color Calibration** and press the **OK** button. The COLOR CALIBRATION menu is displayed.



2. Use the **Arrow** buttons to highlight the setting you wish to adjust, then press the **OK** button to change the setting:
   - **Picture Mode -** Not directly selectable (reference only). Changes to Hue, Saturation, and Brightness are saved here and indicated with an asterisk (*).
   - **Color Temperature -** Not directly selectable (reference only). Changes to Offset and Gain are saved here and indicated with an asterisk (*).
   - **Color Tuner -** Adjust the HSB color, RGB offsets, and 11-point white balance, and display calibration test patterns.
   - **Reset Color Tuner** - Resets the color tuner settings for the current color temperature mode.
     - If the current picture mode is a pre-set, the color temperature is reset for all pre-set picture modes using the current color temperature mode. It does not affect saved custom picture modes.
     - If the current picture mode is a saved custom picture mode, the color temperature only reset for that custom picture modes. It does not affect pre-set picture modes or other custom picture modes.

     For example, suppose that:
     - You have created two custom picture modes: “My Picture Settings” and “Oliver.” They both use the Normal color temperature, but you have adjusted it for each of the modes.
     - You have changed the Color Tuner settings for the Normal color temperature while in the Calibrated picture mode.

     So, you have “My Picture Settings” with a modified Normal color temperature, “Oliver” with different changes to the Normal color temperature, and a third set of changes to the Normal color temperature that apply to all of the pre-set picture modes.

     The Calibrated and Calilbrated Dark picture modes both use the Normal color temperature. If Calibrated is the current picture mode when the Normal color temperature is reset, the change affects both of these picture modes, but does not undo the changes to the color temperature for the “My Picture Settings” or “Oliver” custom picture modes.

     If “My Picture Settings is the current picture mode when the Normal color temperature is reset, the change **only** affects “My Picture Settings” picture mode. The color temperature changes to the “Oliver,” Calibrated, and Calibrated Dark picture modes stay as they are.

Adjusting the Color Tuner Settings

The Color Tuner settings allow you to adjust the Hue, Saturation, and Brightness (HSB) color and 11 point white balance, turn color channels off for testing, and display color bar, flat, and ramp test patterns.

To adjust the HSB color settings:

1. From the PICTURE menu, use the **Arrow** buttons to highlight **Color Calibration** and press the **OK** button. The COLOR CALIBRATION menu is displayed.
2. Use the **Arrow** buttons to highlight **Color Tuner**, and press the **OK** button. 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			

3. Use the **Arrow** buttons on the remote to highlight the **Hue**, **Saturation**, **Brightness**, (these 3 adjust the color) **Offset**, or **Gain** (these two adjust the color temperature) of the color you wish to adjust. Press the **OK** button.
4. Use the **Left/Right Arrow** buttons to adjust the value. When you are finished press the **OK** button to save the setting.
5. When you have finished adjusting the Color Tuner settings, press the **BACK** button to adjust additional settings or **EXIT**.

   Changes to Hue, Saturation, and Brightness are indicated with an asterisk (*) on the Picture Mode setting.

   Changes to Offset and Gain are indicated with an asterisk (*). on the Color Temperature setting.

To turn color channels off and on:

1. From the PICTURE menu, use the **Arrow** buttons to highlight **Color Calibration** and press the **OK** button. The COLOR CALIBRATION menu is displayed.
2. Use the **Arrow** buttons to highlight **Color Tuner**, and then press the **OK** button. The Color Tuner menu is displayed ..

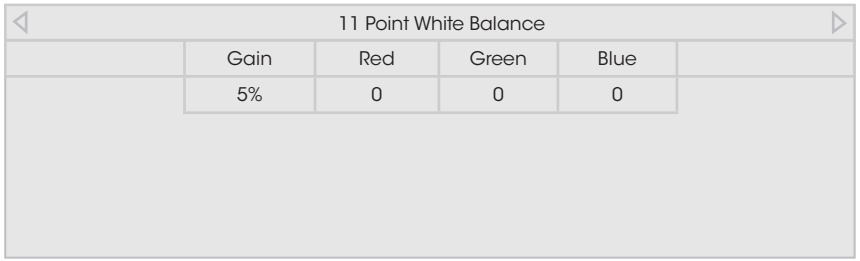
Color Tuner

	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			

3. Use the **Arrow** buttons on the remote to highlight **Red**, **Green**, or **Blue**.
4. Press the **OK** button to turn the color channel off or on. An X appears over a color channel that has been turned off.
5. Use the **Arrow** buttons to highlight another color channel to turn off or on. Only two color channels can be turned off at the same time.
6. When you are finished with the color channels, press the **BACK** button to adjust additional settings or **EXIT**.

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.

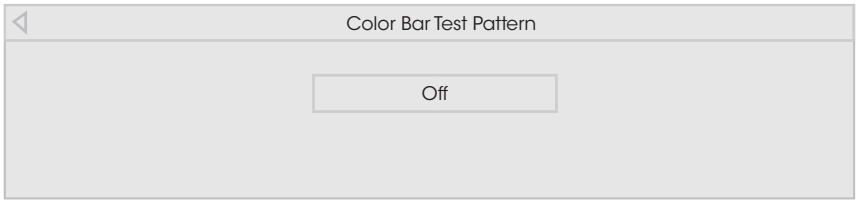


2. Use the **Arrow** buttons on the remote to highlight the **Gain** and **Color values** you wish to adjust. Press the **OK** button and use the **Left/Right Arrow** buttons to adjust the value. When you are finished press the **OK** button to save the setting.
3. When you are finished, press the **BACK**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

All changes here are saved to Color Temperature.

To show or hide the Color Bar Test Pattern:

1. Ensure that you are on an input that is displaying active content. 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.



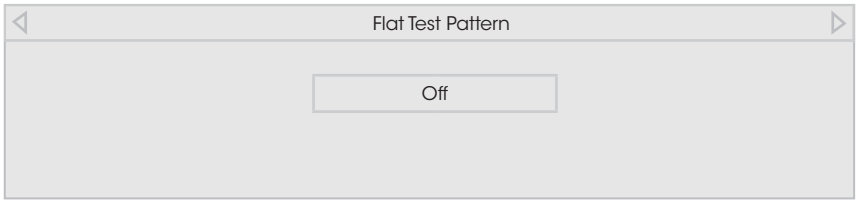
2. Use the **Arrow** buttons on the remote to highlight **Off**. Use the **Left/Right Arrow** buttons to highlight **On** to show the Color Bar.

   —or—

   To hide the Color Bar Test Pattern, use the **Left/Right Arrow** buttons to highlight **Off**.
3. When you are finished, press the **BACK** button to adjust additional settings or **EXIT**.

To show or hide the Flat Test Pattern:

1. Ensure that you are on an input that is displaying active content. 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 select the percentage brightness for the flat test pattern. Selecting a percentage immediately shows the flat pattern at that brightness.

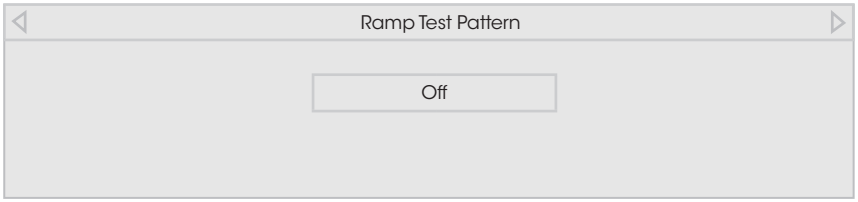
   —or—

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

3. When you are finished, press the **BACK** button to adjust additional settings or **EXIT**.

To show or hide the Ramp Test Pattern:

1. Ensure that you are on an input that is displaying active content. 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 select the color for the ramp test pattern. Selecting a color immediately shows that color ramp.

   —or—

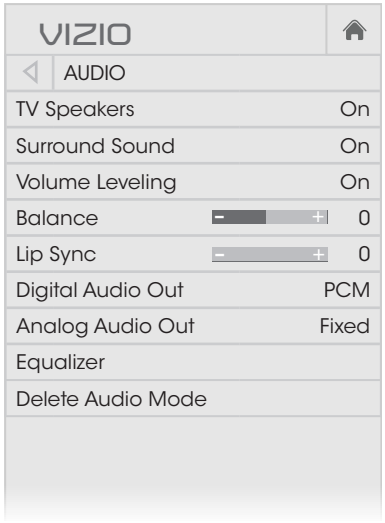
   To hide the Ramp Test Pattern, use the **Left/Right Arrow** buttons to highlight **Off**.

3. When you are finished, press the **BACK** button to adjust additional settings or **EXIT**.

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.



When the TV speakers are set to **On**, DTS signals cannot be passed through digital audio outputs.

- **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**.
- **Volume Leveling** - Volume leveling uses DTS TruVolume™ to maintain consistent volume levels during transitions between program content, AV formats, and input sources. Select **On** or **Off**. In a few cases, volume leveling may artificially suppress volume increases, making it difficult to hear dialog or flattening sudden noises. If this occurs, turn volume leveling 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 HDMI ARC or optical output when connected to a home theater audio system. Select **PCM** or **Bitstream**.

You must select **Bitstream** for audio with more than two channels (3.0, 5.0, or 5.1, for example).

- **Analog Audio Out** - Sets the volume control properties for the 3.5mm (headphone jack) connector when connected to a home theater audio system. Select **Variable** to control the headphones' volume from the TV's volume controls, or select **Fixed** to control the headphones' volume from your home theater system controls. (Some external speakers can also be connected to the 3.5mm connector.)
- **Equalizer** - Adjusts the boost or attenuation of different frequencies using either preset or custom settings. See *Changing the Equalizer Settings* on page 30.
- **Delete Audio Mode** - Deletes a custom audio mode created using the Equalizer Settings. See *Deleting the Custom Audio Mode on page 30*.

This option is cannot be selected if no custom audio mode has been created.

4. When you have finished adjusting the audio settings, press the **BACK** button to adjust additional settings or **EXIT**.

Changing the Equalizer Settings

The graphic equalizer has several pre-set modes and allows you to create one custom mode.

To select a pre-set audio 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 **Audio** and press **OK**. The AUDIO menu is displayed.
3. Use the **Arrow** buttons to highlight **Equalizer** and press **OK**. The **Audio Mode** and equalizer settings screen appears.
4. Use the **Left** and **Right Arrow** buttons to select an audio mode (**Flat**, **Dynamic**, **Center**, **Bass Boost**, or **Bright**). The equalizer bars change to reflect the mode.
5. Press the **BACK** button to adjust additional settings or **EXIT**.

To create, modify, or replace the single custom equalizer setting:

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 **Equalizer** and press **OK**. The **Audio Mode** and equalizer settings screen appears.
4. Use the **Left** and **Right Arrow** buttons to select any audio mode as a starting point.
5. Use the **Arrow** buttons to highlight a frequency and then press **OK**.
6. Use the **Up** and **Down Arrow** buttons to adjust the boost (up) and attenuation (down) for the frequency.
7. Use the **Left** and **Right Arrow** buttons to select another frequency, if desired, and adjust it.
8. Press the **BACK** button to adjust additional settings or **EXIT**.

Deleting the Custom Audio Mode

To delete the custom audio mode that has been created:

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 **Delete Audio Mode** and press **OK**. The TV displays, “To delete the user created custom audio mode, select the Delete button.”
4. Highlight **Delete** and press **OK**.
5. Press the **BACK** button to adjust additional settings or **EXIT**.

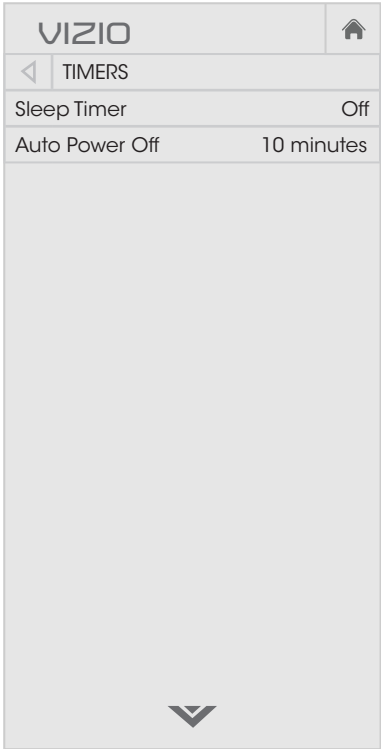
SETTING TIMERS

This TV has several timers to save energy and to turn off when you go to sleep.

Setting the Sleep Timer

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

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 **BACK** button to adjust additional settings or **EXIT**.



Setting the Auto Power Off Feature

To help save energy, your TV is set by default to turn off after 10 minutes without a video or audio signal. This feature can be deactivated.

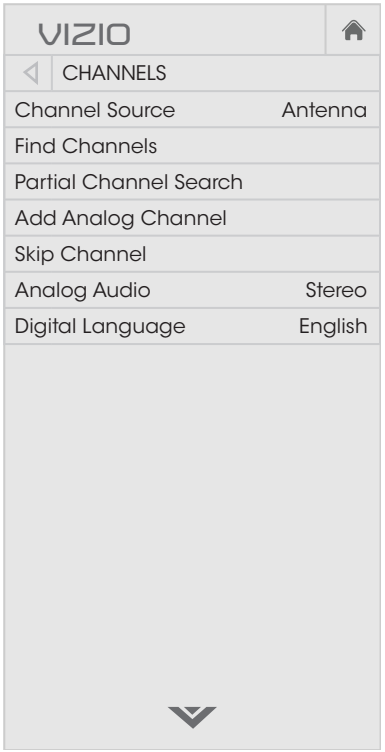
To set the Auto Power Off feature:

1. From the **TIMERS** 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** or **10 minutes**.
3. When you have finished setting the auto power off time, press the **BACK** button to adjust additional settings or **EXIT**.

SETTING UP CHANNELS

You can use the TV's Channels menu to:

- Select a Channel Source
- Find channels
- Perform a partial channel scan
- Manually add channels
- Select channels to skip
- Select language for analog and digital channels



Selecting a Channel Source

1. On the remote control, press **Input** and use the **Arrow** button to highlight **TV** (antenna icon), then press **OK**.
2. Press the **MENU** button**,** select **Channels** and press **OK**. The CHANNELS menu is displayed.
3. On the CHANNELS menu, highlight **Channel Source** and using the left/right **Arrow** buttons to select either **Antenna** or **Cable**.

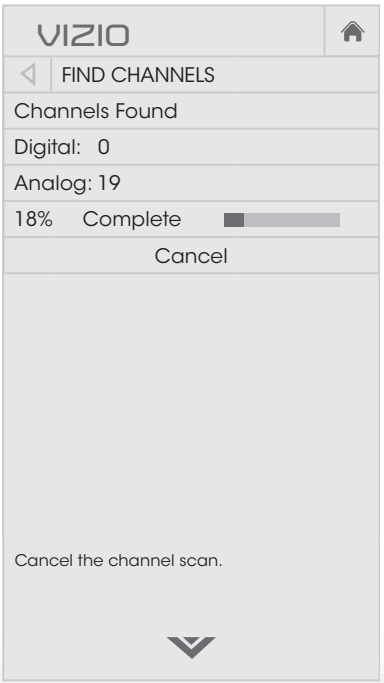
Finding Channels

The TV may need to scan for channels before it can display programs and their associated information. A channel scan is required for free over-the-air channels (using an antenna) and cable channels from an out-of-the-wall connection (without a cable box). Moving the TV to an area with different channels requires the TV to scan for channels again.

To perform an Auto Channel Scan:

1. From the CHANNELS menu, highlight **Find Channels** 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

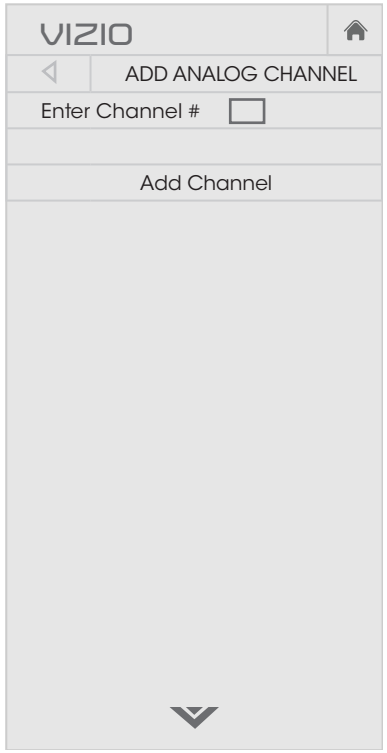
Occasionally, you may need to add a new range of channels or add a new analog channel. You can do this by using the Partial Channel Scan and Add Analog Channel options. This is quicker than scanning all possible channels.

To add a range of new channels:

1. From the CHANNELS 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 type the channel where you want to begin the scan. (Use the left **Arrow** button to backspace. Use the **Number Pad** on the remote to type 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 CHANNELS 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 type the number of the channel to be added.
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.



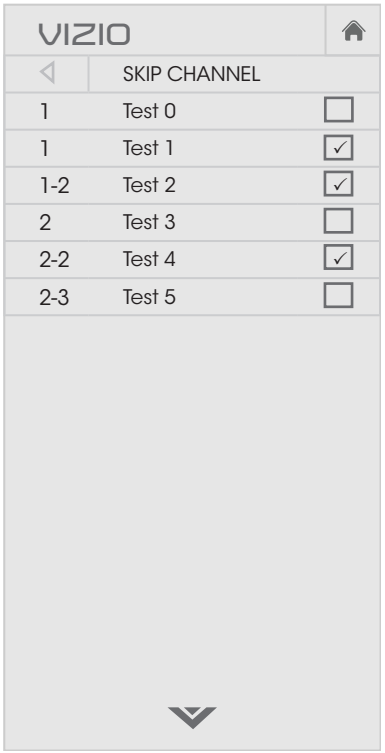
Skipping Channels

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 41*.

To remove a channel:

1. From the CHANNELS 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 **BACK** to adjust additional settings or **EXIT**.



LISTENING TO ALTERNATE AUDIO

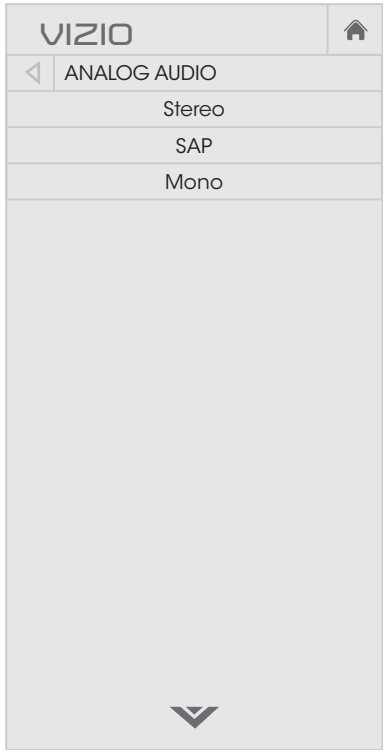
Changing the Analog Audio Language

Some analog over-the-air (free) and cable channels broadcast programs in more than one language. The TV's Analog Audio feature allows you to listen to audio in an alternate language using Secondary Audio Programming (SAP).

> Not all programs are broadcast in SAP. The Analog Audio Language feature only works when the program being viewed is being broadcast with Secondary Audio Programming.

To use the Analog Audio feature:

1. From the CHANNELS 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 **BACK** to adjust additional settings or **EXIT**.

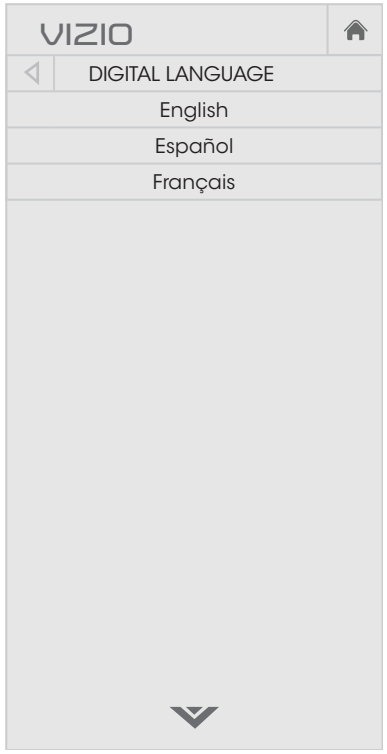


Changing the Digital Audio Language

Some digital over-the-air (free), cable, and satellite channels broadcast programs in more than one language. The TV's Digital Audio feature allows you to listen to audio in alternate languages.

> Not all programs are broadcast in alternate languages. The Digital Audio Language feature only works when the program being viewed is being broadcast in the language you select.

1. From the CHANNELS menu, highlight **Digital Language** and press **OK**. The DIGITAL LANGUAGE menu is displayed.
2. Select your preferred language: **English**, **Français, or Español** and press **OK**.
3. Press **BACK** to adjust additional settings or **EXIT**.



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 Captions menu does not appear when an HDMI input is selected.

To activate or deactivate closed captions:

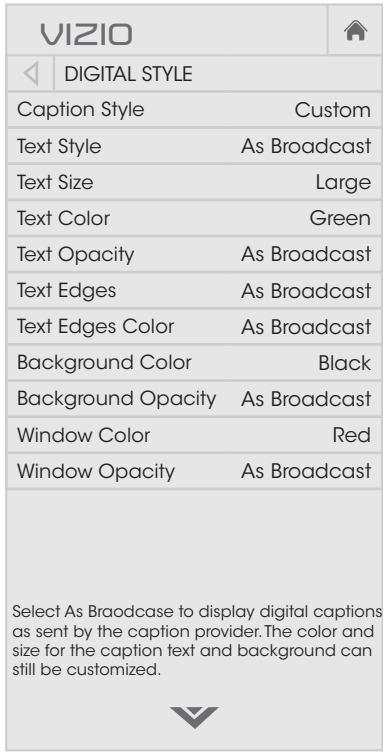
1. Press the **MENU** button on the remote. The on-screen menu is displayed.
2. Use the **Arrow** buttons on the remote to highlight **Closed Captions** and press **OK**. The CLOSED CAPTIONS menu is displayed.
3. Use the **Arrow** buttons on the remote to highlight **Closed Captions** and then use the **Left/Right Arrow** buttons to select **On** or **Off**.
4. Use the **Arrow** buttons on the remote to highlight either **Analog** or **Digital Closed Captions**.
5. Use the **Left/Right Arrow** buttons on the remote to select the caption channel you wish to display, then press **BACK** to adjust additional settings or **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 CAPTIONS menu, use the **Arrow** buttons to highlight **Digital Style** and press **OK**.
2. Use the **Left/Right Arrow** buttons on the remote to select **Custom** and press **OK**. The DIGITAL STYLE menu is displayed.
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.
   - **Text Color** - Change the color of the text.
   - **Text Opacity** - Change the transparency of the text.
   - **Text Edges** - Change the effects at the edges of the text, such as raising the edges or adding drop shadows.



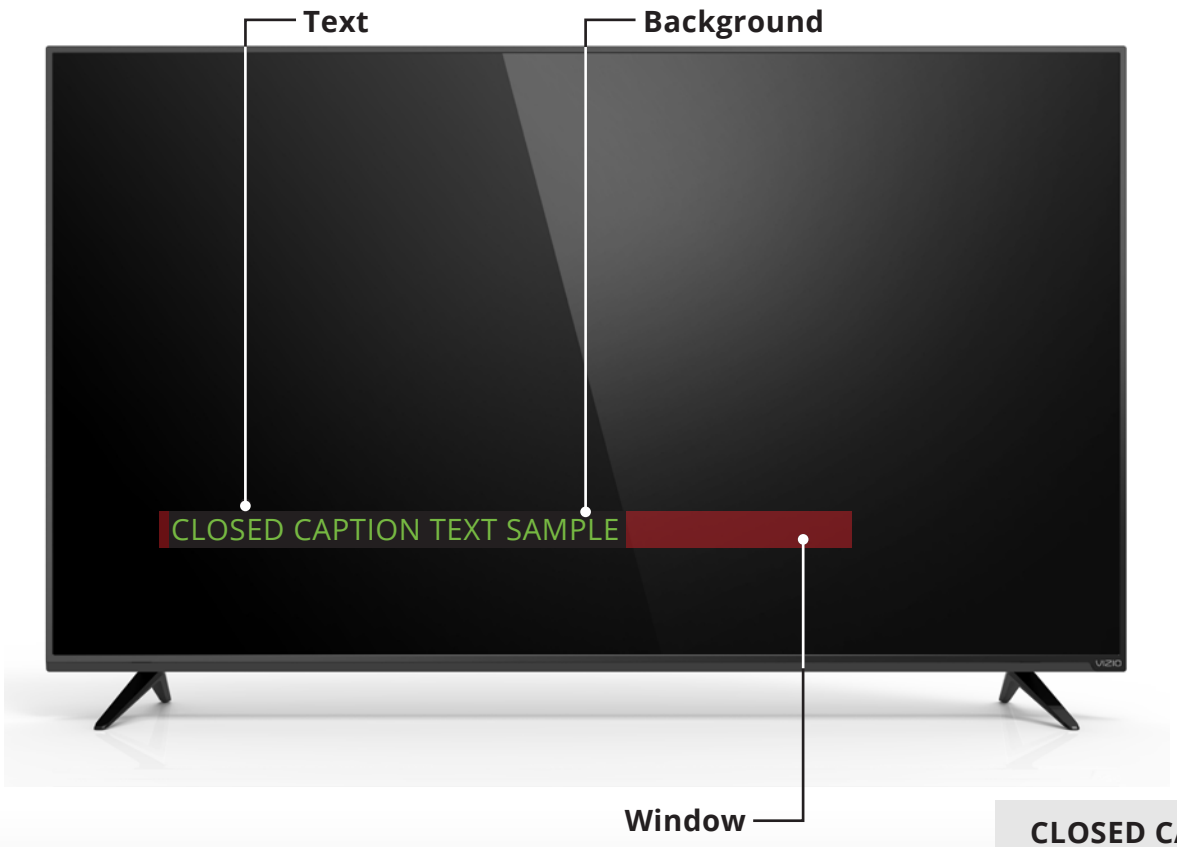
- **Text Edges Color** - Change the color of the text edge effects.
- **Background Color** - Change the color of the background directly behind the text.
- **Background Opacity** - Change the transparency of the background directly behind the text.
- **Window Color** - Change the color of the closed captioning box.
- **Window Opacity** - Change the transparency of the closed captioning box.

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

Typical choices include:

- Opaque background, transparent window—Only a strip of background appears behind the text, expanding as the text appears. This is the typical "As Broadcast" mode.
- Opaque background and window in the same color—When text appears, the entire line fills with color at once.

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



CLOSED CAPTIONS SCREEN LAYOUT

RENAMING DEVICES ON THE INPUT MENU

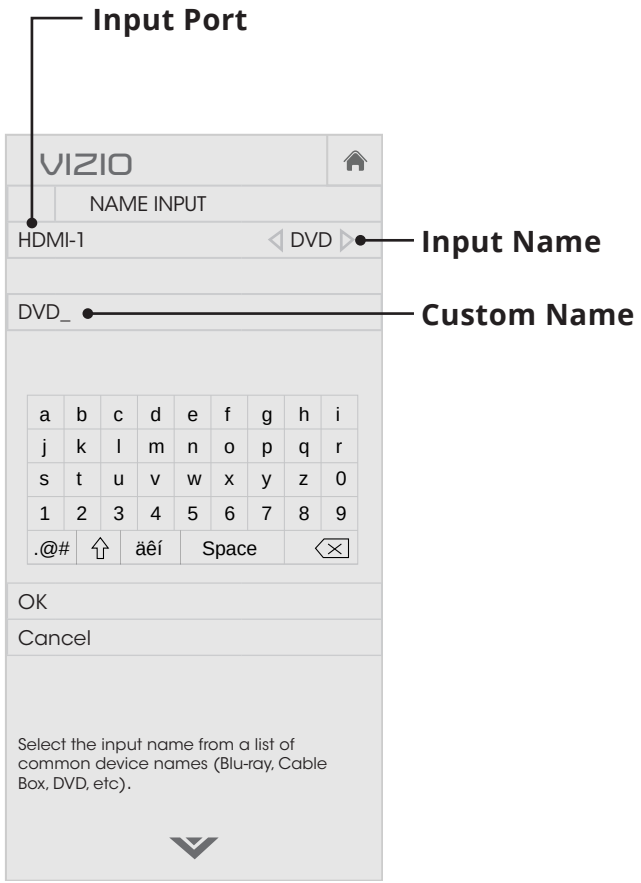
Inputs can be renamed to make them easier to recognize on the Input menu (see *Changing the Input Source* on page 20). For example, if you have a DVD player connected to the Component input, you can rename that input to display "DVD Player."

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 **Devices** and press the **OK** button. The DEVICES menu is displayed.
3. Highlight the input port that you want to name and press **OK**.
4. To use a preset input name:
   a. Highlight the **Input Port** row and press **OK**.
   b. Highlight the input name you want to use (**HDMI-1**, **Blu-ray**, **Cable Box**, **Computer**, **DVD**, **DVR**, **Game**, or **Satellite**) and press **OK**.

   —or—

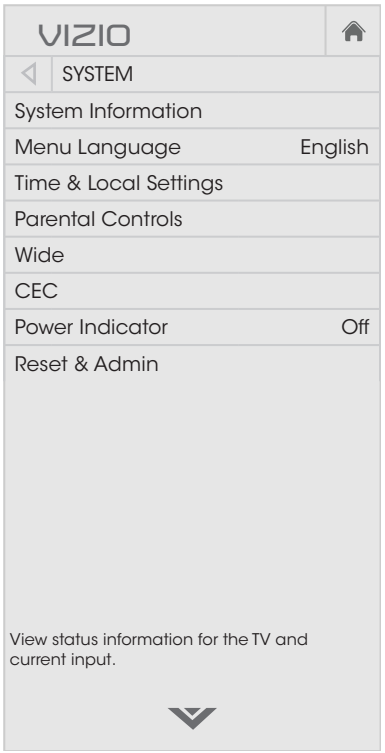
   To enter a custom name:
   a. Enter your custom name using the on-screen keyboard.
   b. Highlight **OK** and press **OK**.
   c. The Input Name changes to show the custom name that you created.
5. When you have finished naming your input, press the **BACK** button to adjust additional settings or **EXIT**.



CHANGING THE TV SETTINGS

Using the System menu, you can:

- View system information
- Change the on-screen menu language
- Set the time zone and local settings
- Set up parental controls
- Change the Wide settings
- Adjust the California Energy Commission (CEC) settings
- Adjust when the power indicator is illuminated
- Reset the TV settings and set up administrative controls



Viewing System Information

To view 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 Information** and press **OK**.
4. Use the **Up/Down Arrow** buttons to scroll through the system information.

System information is used verify settings and the firmware version.

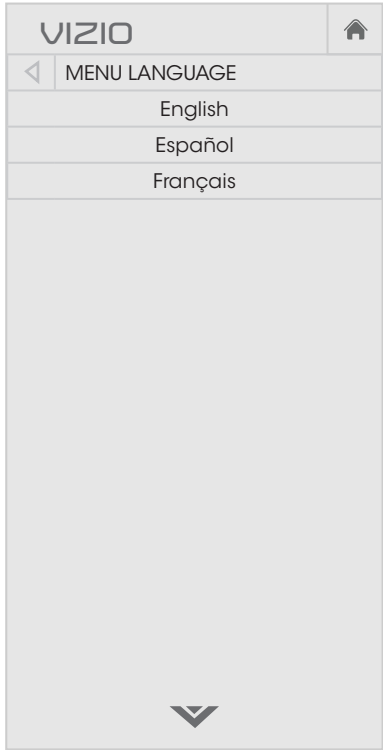
5. When you are finished reviewing the system information, press the **BACK** button to view or change additional settings or **EXIT**.

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 button on the remote. The on-screen menu is displayed.
2. Use the buttons on the remote to highlight and press . The SYSTEM menu is displayed.
3. Use the buttons on the remote to highlight and press . The MENU LANGUAGE menu is displayed.
4. Highlight your preferred language (, , or) and press . All screens will now be displayed in the selected language.
5. Press the button to change additional settings or .

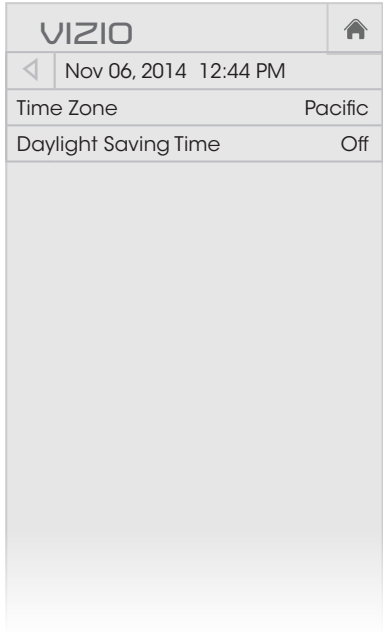


Setting the Time and Local Settings

When your TV signal come from an antenna, your TV receives time information as part of the broadcast signal. The time is displayed as part of the information when you press the **INFO** button. However, you need to set your time zone and Daylight Saving Time state to ensure that the correct time is displayed.

To set the TV's time zone and whether Daylight Saving Time is in effect:

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 & Local Settings** and press **OK**. The menu headed by the local date and time 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 Time** and press **OK**. The DAYLIGHT SAVING TIME menu is displayed. Choose **On** if it is currently Daylight Saving Time, **Off** if it is Standard Time.
7. Press the **EXIT** button on the remote.

You'll need to change the Daylight Saving Time setting at the start and end of Daylight Saving time.

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 the tuner to 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 42.

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:

From the PARENTAL CONTROLS menu, highlight **Locks** and use the **left/right Arrow** buttons to select **On** (enable) or **Off** (disable).

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.

   Canadian English - Canadian English television program broadcasts.

   Canadian 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 rating and all higher ratings cannot be viewed.

4. 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**.

5. 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:

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, "Select Reset to restore Parental Controls to factory defaults."

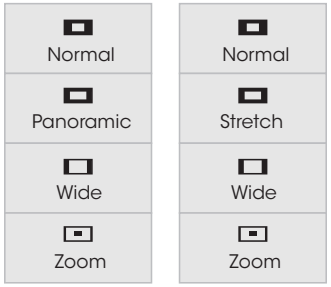
2. Highlight **Reset** and press **OK**.

Adjusting the Wide Mode (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 **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 **Wide** and press **OK**. The wide mode menu appears at the top of the screen.



Note: Aspect ratio settings may vary by Input source.

4. Use the **Arrow** buttons to highlight the aspect ratio you wish to use and the 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.
   - **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 width of 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.

Controlling Other Devices with CEC

The CEC function on your TV enables you to control devices connected to the HDMI (ARC) input with the included remote, without any programming. Using CEC, your VIZIO TV remote can control:

- Power on/off
- Volume
- Mute

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

To enable, disable, or adjust CEC settings:

1. Set up your audio device and connect it to the HDMI-1 (HDMI ARC) input on the TV.
2. On your audio device, select the HDMI ARC input.
3. Press the **MENU** button on the remote. The on-screen menu is displayed.
4. Use the **Arrow** buttons on the remote to highlight **System** and press **OK**. The SYSTEM menu is displayed.
5. Use the **Arrow** buttons on the remote to highlight **CEC** and press **OK**. The CEC Settings menu is displayed.
6. Highlight **CEC** and press **OK**. Select a setting and then press **OK**.
   - **CEC Function** - To use CEC, you must select **On**.
   - **System Audio Control** - To control your device's audio using the TV's remote control, select **On**.
   - **Device Discovery** - To determine if your device is connected and supports CEC, select **Device Discovery** and then press **OK**.
7. Press the **EXIT** button on the remote.

To begin device discovery:

- From the CEC menu, highlight **Device Discovery** and press **OK**.

Your TV begins looking for CEC devices connected to all of its HDMI inputs. When discovery is complete:

- The CEC-compatible devices are listed below **Device Discovery**.
- The names of these devices now appear on the Input menu.
- If an audio device was discovered, the TV's speakers are turned off.
- The VIZIO TV remote controls an attached VIZIO sound bar or other audio system.

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**. The POWER INDICATOR menu is displayed.
4. Use the **Up/Down Arrow** buttons to select **On** or **Off**, then press **OK**.

USING THE RESET & ADMIN MENU

Restoring the TV to Factory Default Settings

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

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 **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**.

If you have changed the default parental control passcode, type it now.

The TV displays, “Select Reset to restore all TV settings to factory defaults.”

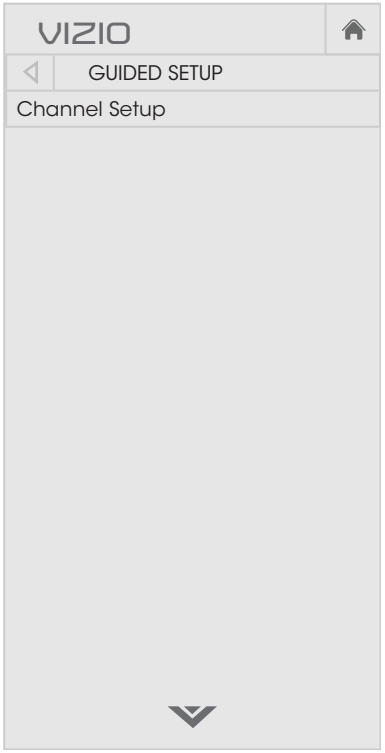
5. Highlight **Reset** and press **OK**.
6. Wait for the TV to turn off. The TV will turn back on shortly afterward and the Setup App will begin.
7. To view a demonstration of TV functions on start-up, select **Store Demo** > **On**.

USING THE GUIDED SETUP MENU

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

To use guided setup:

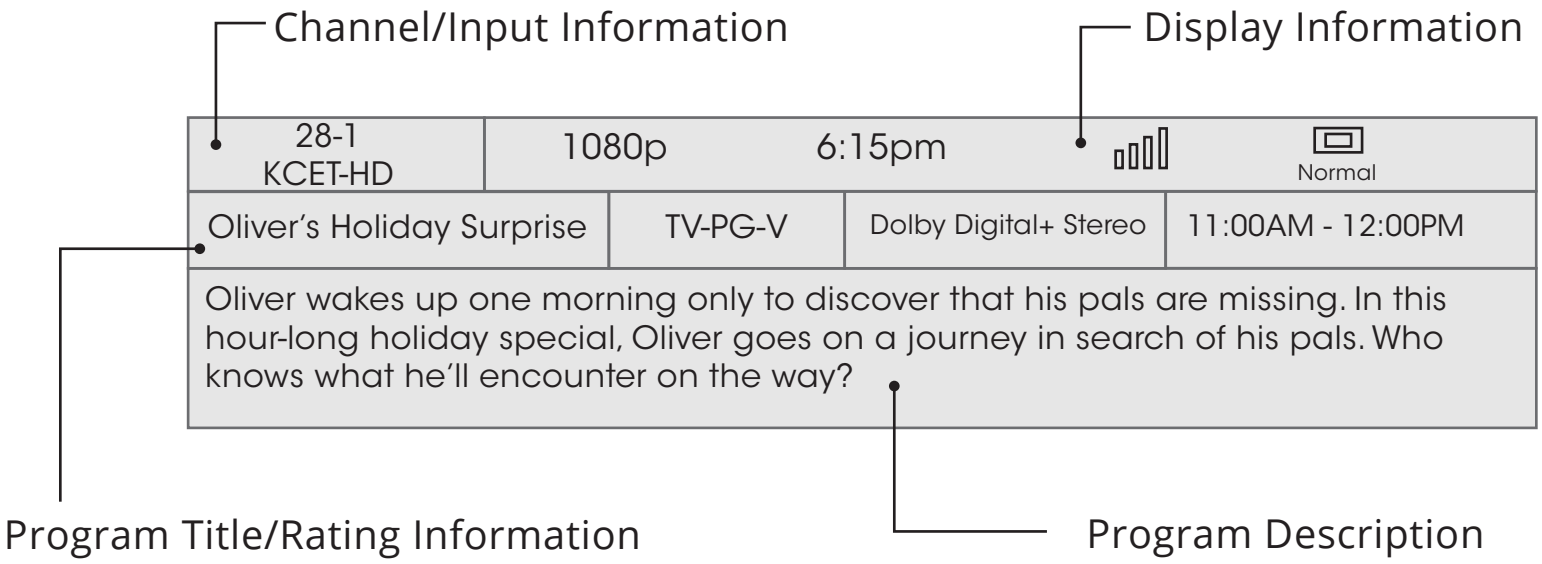
1. Press the **MENU** button on the remote. The on-screen menu is displayed.
2. Highlight **Guided Setup** and press **OK**. The GUIDED SETUP menu is displayed.
3. Highlight **Channel Setup** and press **OK**:
4. Follow the on-screen instructions. When finished, press the **BACK** button to change additional settings or **EXIT**.



USING THE INFO WINDOW

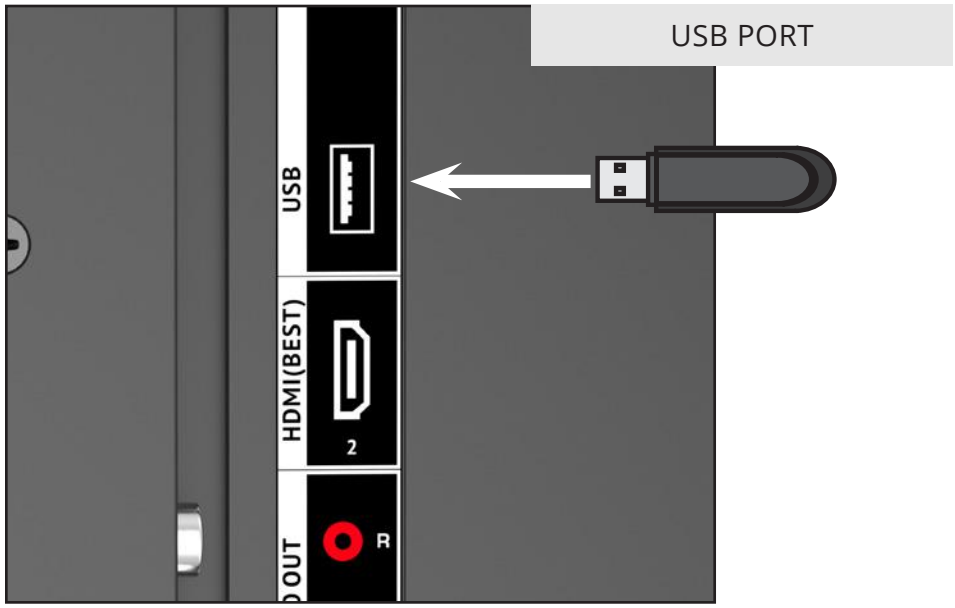
The Info Window can be displayed by pressing the **INFO** or **GUIDE** button on the remote:

- 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.



USING THE USB MEDIA PLAYER

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



Preparing your USB drive to play USB media

To play USB media, you must first save your files on a USB thumb drive:

- The USB thumb drive must be formatted as FAT32.
- Files on the USB thumb drive must end in a supported file extension (.jpg or .jpeg).
- The USB media player is not designed to play media from external hard drives, MP3 players, cameras, or smartphones.

Playing USB media

To play your USB media:

1. Connect your USB thumb drive to the USB port on the side of the TV.
2. Use the **Arrow** buttons to highlight **Yes** and press the **OK**.

If the dialog box disappears, press the **V button** on the remote to go the next step.

3. Use the **Arrow** buttons to highlight your USB device in the list and press **OK**.
4. Use the **Arrow** buttons to highlight **Photo** and press **OK**.
5. Use the **Arrow** buttons to highlight the photo you want to display. Press **OK**. The photo displays.

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

Removing the USB drive from the TV

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

To safely remove your USB drive from the TV:

1. Turn off the TV.
2. Disconnect your USB thumb drive from the USB port on the side of the TV.

Back Button
Highlight this button and press **OK** 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 files and folders using the **Arrow** and **OK** buttons on the remote.

Connected Sources
Displays connected USB devices.

Current Folder

Start Fullscreen Slideshow

Sort by Name or Date

View Thumbnails/Folders

Adjust Slideshow Settings

Photo Information
Displays the name, resolution, and file size of the 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? Find answers here:

SUPPORT.VIZIO.COM

Find help with:

- New product setup
- Connecting your devices
- Technical problems
- Product updates and more.

Live chat
support available

You can also contact our
award-winning support team:

Phone: (877) 698-4946 (toll-free)
Email: techsupport@VIZIO.com

Hours of Operation:

Monday - Friday: 7 AM TO 11 PM (CST)
Saturday - Sunday: 9 AM TO 6 PM (CST)

The TV displays "No Signal."

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

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** 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 Picture Settings* on page 21.
- 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**.
- 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 sound is flat or dialog is not audible.

- Turn off Sound Leveling. See *Adjusting the Audio Settings on page 29.*

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 21.
- Check all cables to ensure they are securely attached.

The buttons on the remote aren't working.

- The **Red** and **Yellow** hot key buttons below the **V button** do not operate with this model.
- 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 11.*

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 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 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 20.*

	D43-C1
Screen Size:	43" Class
Viewable Area:	42.5"
Dimensions w/ Stand: **w/o Stand:**	37.99" x 24.53" x 8.27" 37.99" x 22.36" x 2.52"
Weight w/ Stand: **w/o Stand:**	19.84 lbs 19.40 lbs
TV Type:	Direct LED
Refresh Rate:	60 Hz (120 Hz Effective Refresh Rate)
Maximum Resolution:	1920 x 1080 (Full HD)
Pixel Pitch:	0.490 mm (H) x 0.490 mm (V)
Dynamic Contrast Ratio:	200,000: 1
Clear Action	240
Viewing Angle:	178°/ 178°
HDMI Inputs:	2
Component Video Inputs:	1
Composite Inputs:	1 (shared with Component)
RF Antenna Input:	1
USB 2.0 Ports:	1
Audio Outputs:	RCA Stereo, Optical Digital
OSD Language:	English, Spanish, French

	D43-C1
Remote Control Model:	XRT010
Certifications:	UL, cUL, NOM, BETS-7/ICES-003 Class B, HDMI (CEC, ARC), Dolby Digital
Compliance:	Energy Star 6.1 COUNEE NRCan NOM-032
Voltage Range:	120 V @ 60 Hz
Power-On Consumption:	46 W
Standby Power Consumption:	< 0.5 W
Zero Bright Pixels Guarantee:	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 7:00AM to 11:00PM Monday through Friday and 9:00AM to 6:00PM Saturday and Sunday, Central Standard 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.

Other

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