

TELEVISION ANTENNA CONNECTION PROTECTION

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

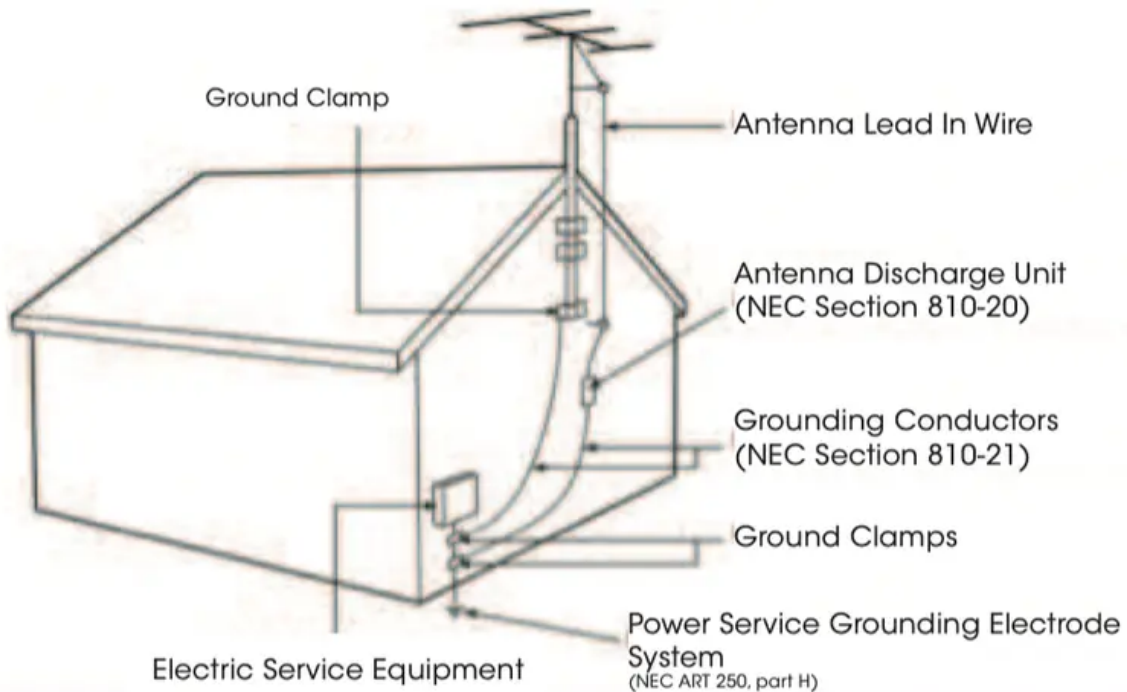
Article 810 of the National Electrical Code, ANSI/NFPA 70, provides information with regard to proper grounding of the mast and supporting structure, grounding of the lead-in wire to an antenna discharge unit, size of the grounding conductors, location of antenna discharge unit, connection to grounding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

Lightning Protection

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

Power Lines

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



Installing the TV

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)

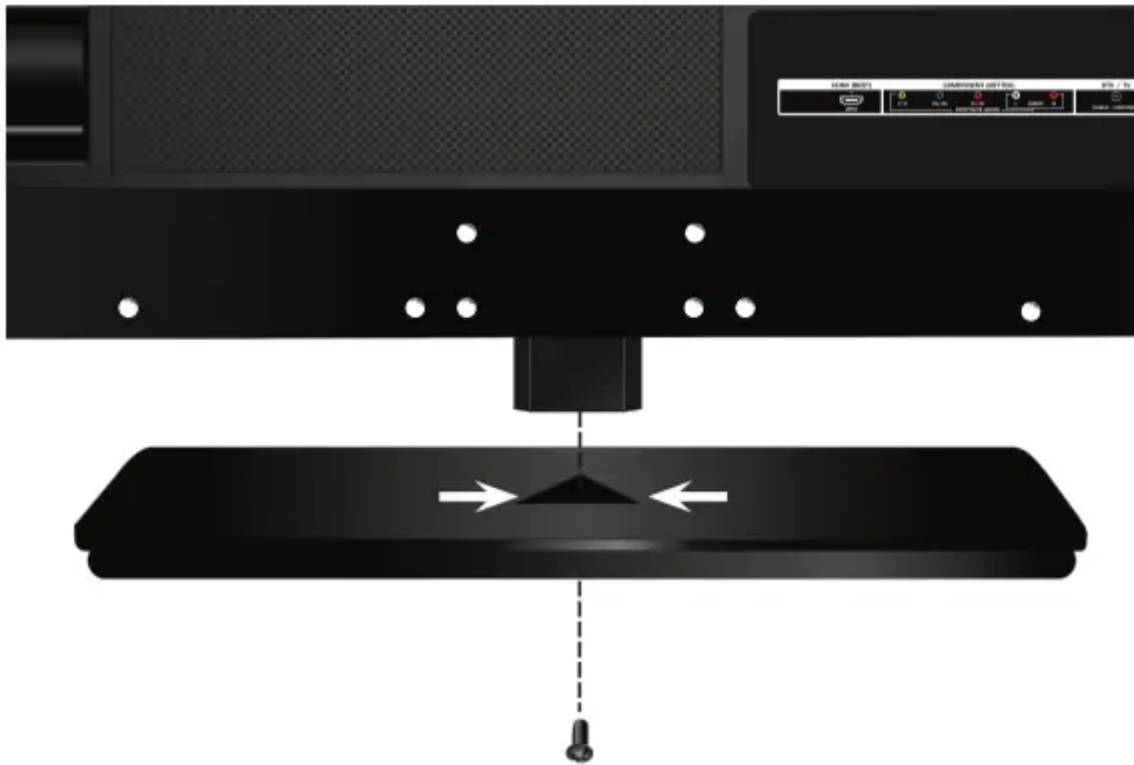
Installing the TV Stand

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



To install the base:



1. Place the TV screen-down on a certain, flat surface. To prevent scratches or damage to the screen, place the TV on a soft surface, such as a blanket.
2. Align the base with the TV and tighten the hex screw into the base with the included hex wrench.
3. Move the TV with attached stand into an upright position and place on a flat, level, and stable surface.
4. To ensure proper ventilation, leave at least 1" of space between the back of the TV and any other objects (walls, etc).

Installing the TV on a Wall

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



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

E320-B0E	
Screw Size:	M4
Screw Pitch:	0.70mm
Screw Length:	12mm
Hole Pattern:	100mm (V) x 100mm (H)

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

To install your TV on a wall:

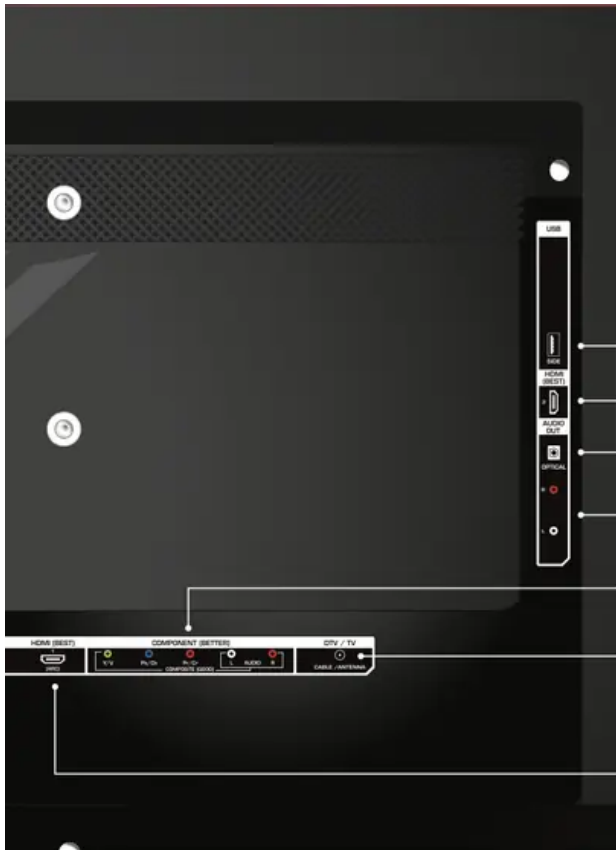
1. Disconnect any cables connected to your TV.
2. Place the TV face-down on a clean, flat, stable surface.

Be sure the surface is clear of debris that can scratch or damage the TV.

3. Remove the base by loosening and removing the screws.
4. Attach your TV and wall mount to the wall, carefully following the instructions that came with your mount.

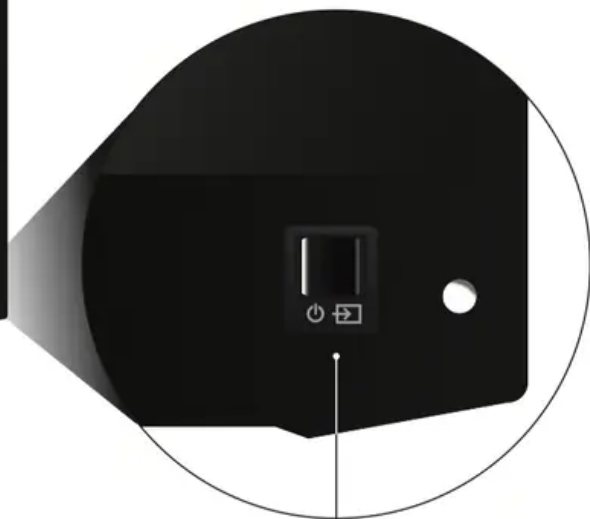
Use only with a UL-listed wall mount bracket rated for the weight/load of this TV. See Appendix B - Specifications for the weight of this TV.

Controls and Connections



- USB** - Connect USB thumb drive to play photo.
- HDMI** - Connect HDMI device.
- Optical Audio Out** - Connect optical/SPDIF audio device, such as home audio receiver.
- Stereo Audio Out** - Connect RCA audio device, such as sound bar.
- Component/Composite** - Connect component or composite device.
- Coaxial** - Connect coaxial cable from cable, satellite, or antenna.
- HDMI** - Connect HDMI device.

REAR PANEL



- POWER** - Hold to turn TV on or off.
- INPUT** - Press to change input source.

SIDE PANEL





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

FRONT PANEL

REMOTE CONTROL

INPUT
Change the currently-displayed input.

EXIT
Close the on-screen menu.

OK
Select the highlighted menu option.

BACK
Go to the previous on-screen menu.

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

MUTE
Turn the audio off or on.

NUMBER PAD
Manually enter a channel.

WIDE
Switch the display mode.

POWER
Turn TV on or off.

MENU
Display the on-screen menu.

ARROW
Navigate the on-screen menu.

GUIDE
Display the info window.

V BUTTON
Open the VIA dock.

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 Your Devices

CONNECTING A DEVICE

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

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



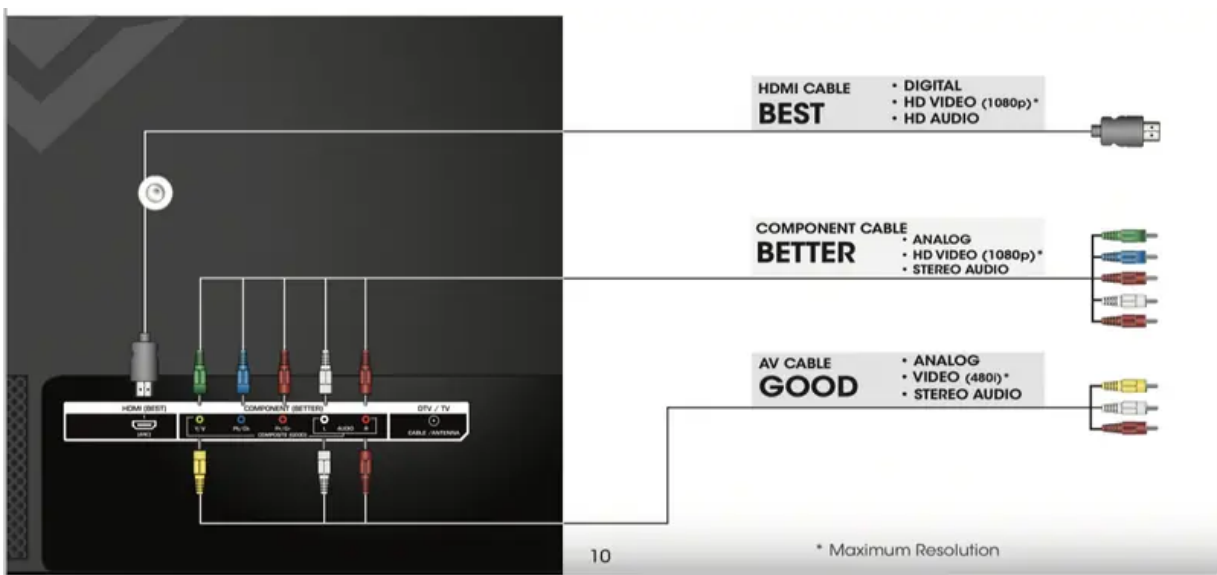
Cable/Satellite Box



DVD/Blu-ray Player



Game Console



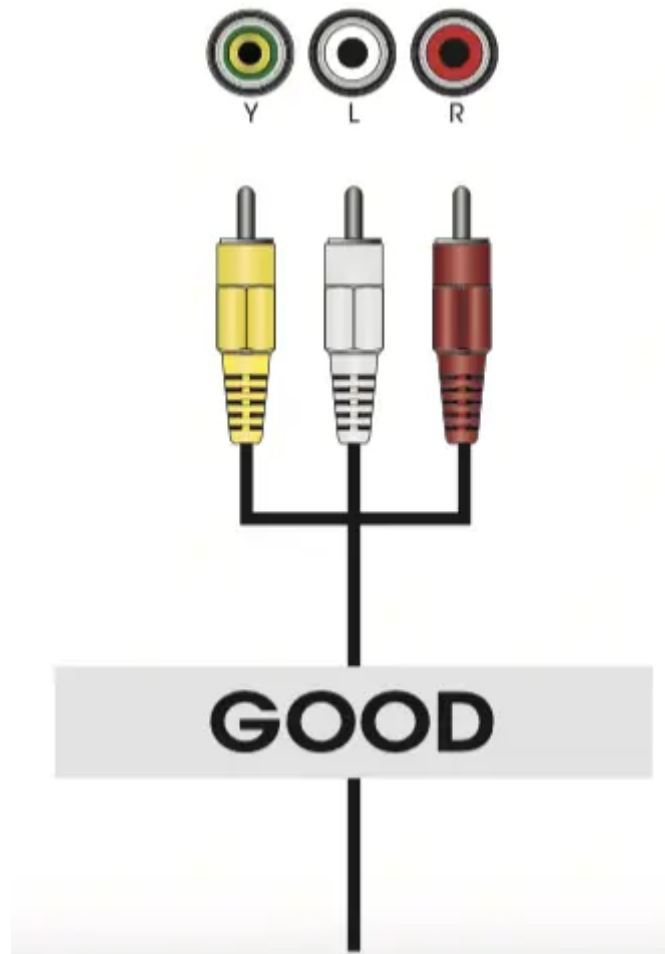
CONNECTING A DEVICE - AUDIO AND VIDEO CABLE TYPES

AV CABLE

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

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

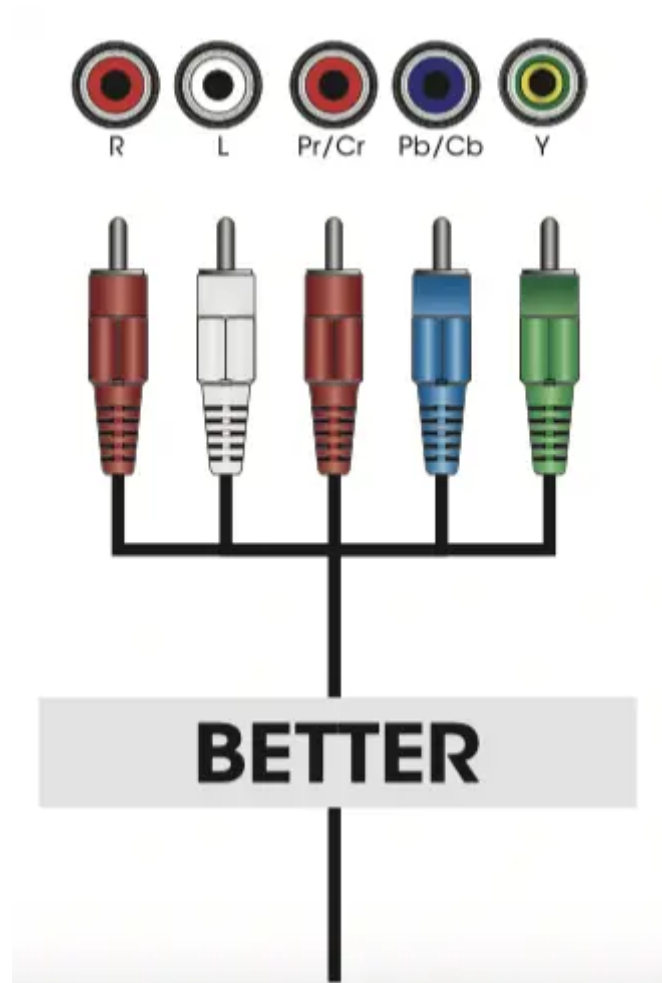




COMPONENT CABLE

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).

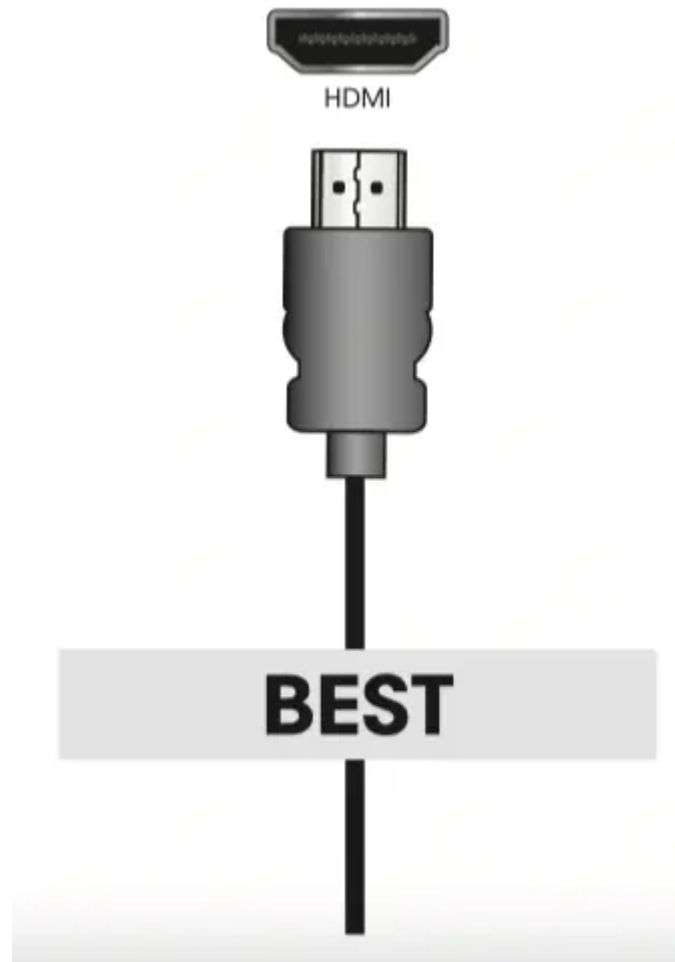
- HD Video Resolutions up to 1080p
- Analog Connection
- Audio and Video Signals



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 1080
- HD Audio
- Digital Connection
- Audio and Video Signals



CONNECTING AN AUDIO DEVICE

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

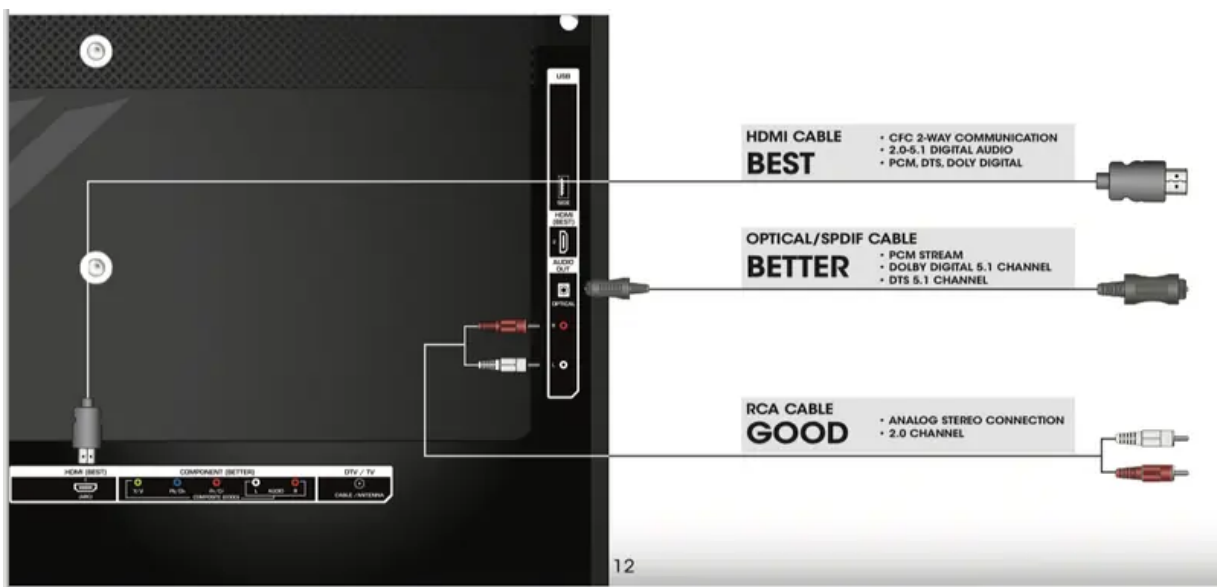
1. Verify that your device has a video port that matches an available port on the TV (HDMI, RCA, etc).
2. Turn the TV and your audio device off.
3. Connect the appropriate cable (not included) to the TV and the device.
4. Turn the TV and your device on.



Home Audio Receiver



VIZIO Sound Bar

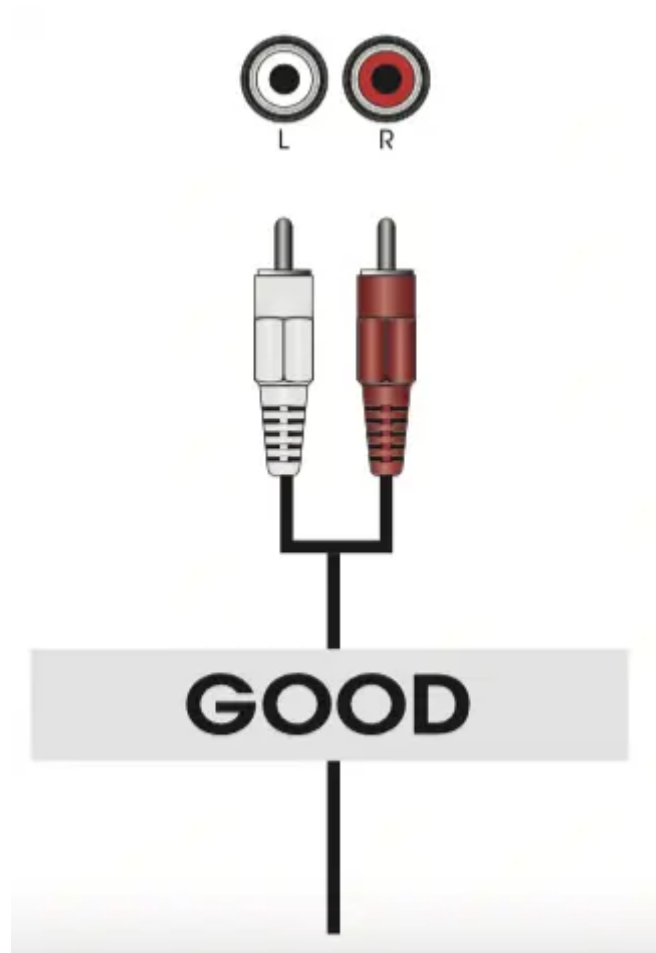


CONNECTING AN AUDIO DEVICE - AUDIO CABLE TYPES

RCA CABLE

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

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



OPTICAL/SPDIF CABLE

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

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



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 14.

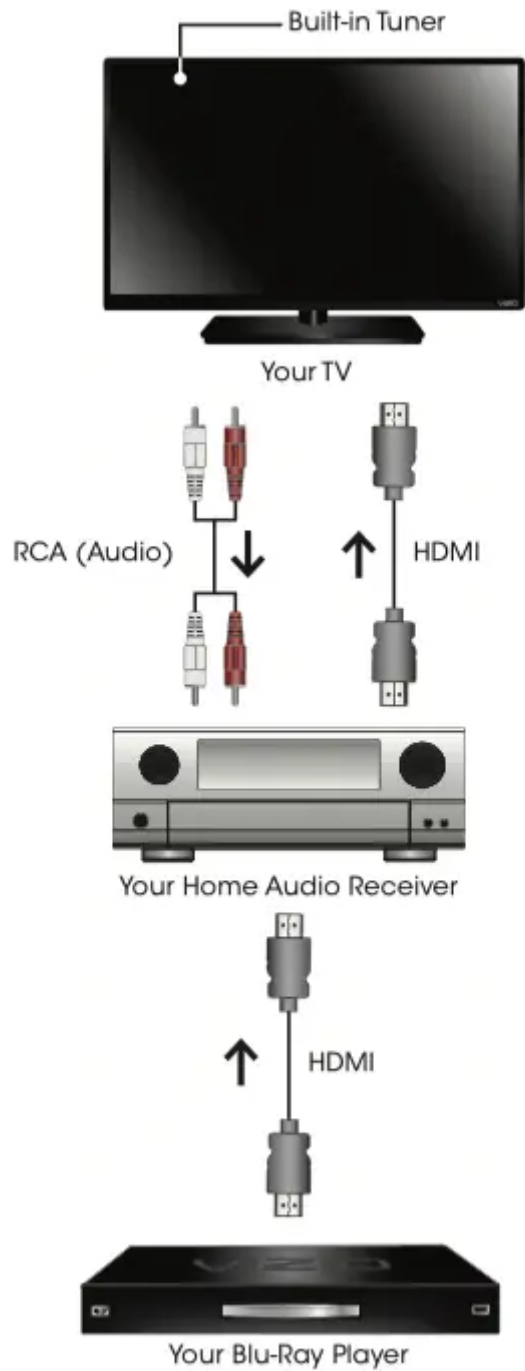
- CFC 2-way Communication (Auto setup)
- PCM, DTS, Dolby Digital
- 2.0-5.1 Scalable Lossless Digital Audio Connection
- Audio and Video Signals



CONNECTING AN AUDIO DEVICE - ARC

Without HDMI ARC

Without an HDMI ARC setup, your TV will transmit audio signal 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

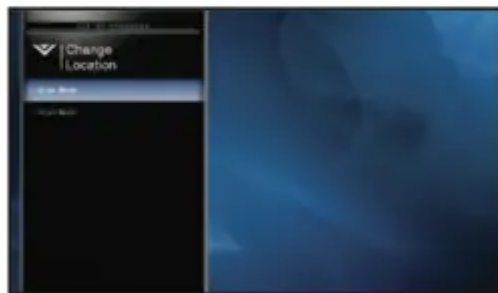
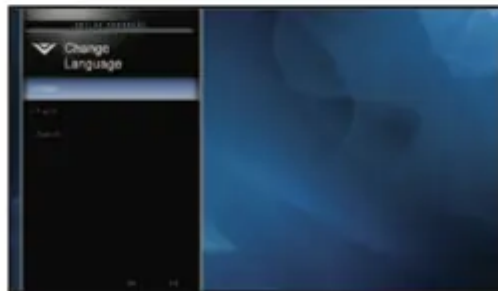
The first time you turn on the TV, the Setup App will guide you through each of the steps necessary to get your TV ready for use.

Before you begin the first-time setup:

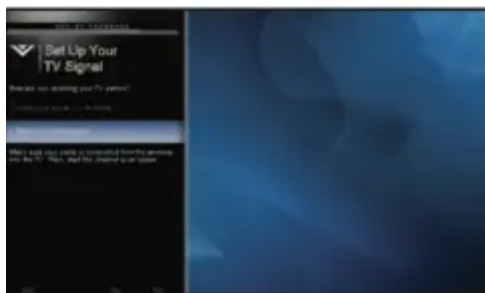
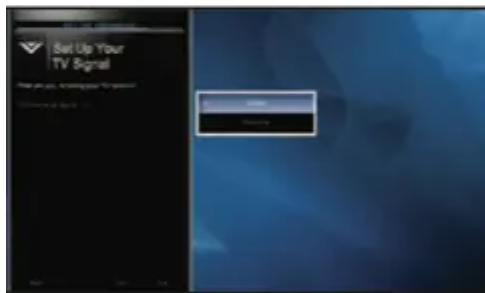
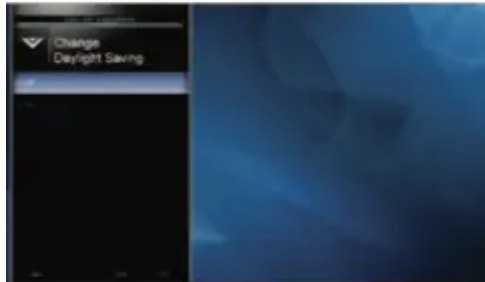
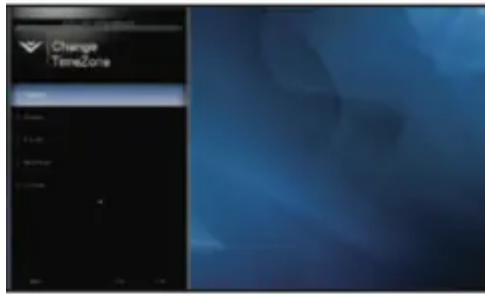
- Your TV should be installed and the power cord should be connected to an electrical outlet.
- Your devices should be connected.

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 Up/Down Arrow buttons on the remote to highlight your preferred language and press OK.
3. Use the OK and Arrow Up/ Down buttons on the remote to highlight Home mode Setup and press OK.



4. Use the OK and Arrow Up/ Down buttons on the remote to highlight your time zone and press OK.
5. Use the OK and Arrow Up/ Down Buttons on the remote to turn daylight saving time On or Off.
6. Answer the on-screen questions about your TV connection using the Arrow and OK buttons on the remote.
7. Use the Arrow buttons to highlight Start the Channel Scan and press OK.



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

The First-Time Setup is complete.

Using the On-Screen Menu

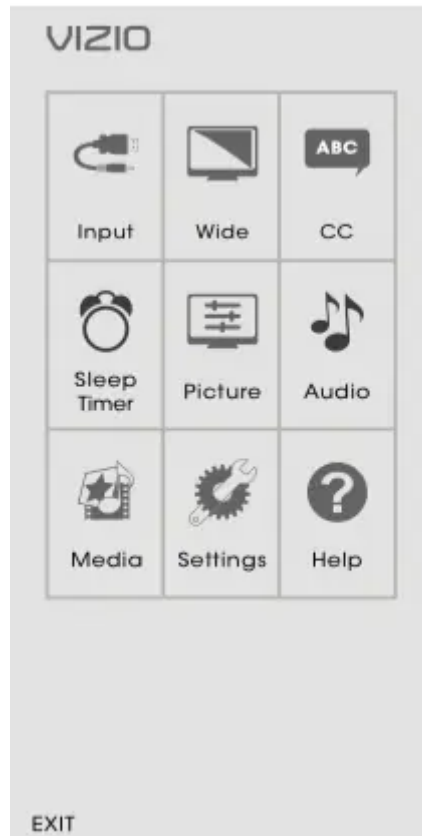
Your TV features an easy-to-use on-screen menu.

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

From this menu, you can:

- Change the input source
- Change the screen aspect ratio
- Set up closed captioning

- Activate the sleep timer
- Adjust the picture settings
- Adjust the audio settings
- Access USB photo slideshow
- Change TV settings
- Access the help menu



NAVIGATING THE ON-SCREEN MENU

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

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



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

CHANGING THE INPUT SOURCE

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

To change the input device:

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

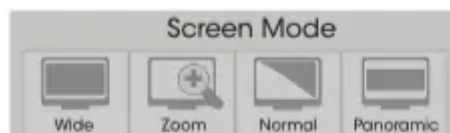


CHANGING THE SCREEN ASPECT RATIO

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

To change the screen aspect ratio:

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



3. Use the Arrow buttons to highlight your desired screen mode and press OK:

- Normal preserves the content's original aspect ratio. Since the 4:3 aspect ratio is not large enough to fill the TV's screen, black bars are added to the left and right of the display image.
- Wide stretches a 4:3 aspect ratio picture to the edges of the screen. Since the picture is being stretched, the display image may appear distorted. If the program is

already formatted for widescreen viewing (1.85:1 or 2.35:1), then black bars will appear on the top and bottom of the display image.

- Zoom expands images with black bars to fit the screen.
- 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.
- Stretch expands the display image to fill the screen. Images may appear wider than intended. If you are watching widescreen (1.85:1 or 2.35:1) content, black bars will still appear on the top and bottom of the display image. This option is only available when the TV is displaying a 720p/1080i/1080p source.

SETTING UP CLOSED CAPTIONING

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



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

To activate or deactivate closed captions:

1. Press the MENU button on the remote. The on-screen menu is displayed.
2. Use the Arrow buttons on the remote to highlight the CC icon and press OK. The Closed Caption menu is displayed.
3. Use the Arrow buttons on the remote to highlight the type of closed captions you wish to see:
 - Analog Closed Caption for analog (NTSC) TV channels.
 - Digital Closed Caption for digital (ATSC) TV channels.
4. After highlighting the type of closed captions you wish to see, use the Left/Right Arrow buttons on the remote to select the caption channel you wish to display, then press EXIT.



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

Changing the Appearance of Digital Closed Captions

Digital closed captions can be displayed according to your preference.

To change the appearance of digital closed captions:

1. From the Closed Caption menu, use the Arrow buttons to highlight Digital CC Style.
2. Use the Left/Right Arrow buttons on the remote to select Custom, then press OK. The Digital CC Style menu appears.
3. Use the Up/Down Arrow buttons on the remote to highlight the setting you wish to change, then use the Left/ Right Arrow buttons to change the setting:



- Caption Style - Choose Auto to keep default settings or Custom to manually change each setting.
 - Text Size - Adjust the size of the text.
 - Color - Change the color of the text.
 - Opacity - Change the transparency of the text.
 - BG Color - Change the background color.
 - BG Opacity - Change the transparency of the background.
 - Window Color - Change the edge color.
 - Window Opacity - Change the edge type.
4. When you are satisfied with the appearance of the closed captions, press the EXIT button on the remote.

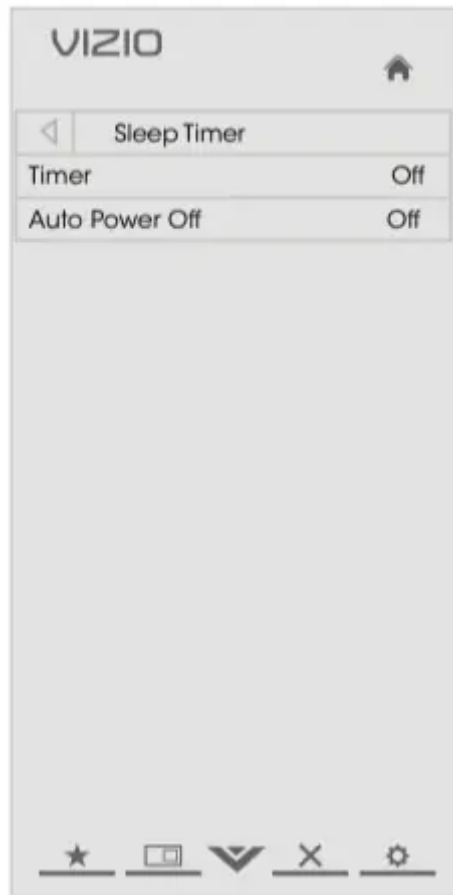
ACTIVATING THE SLEEP TIMER

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

To use the sleep timer:

1. Press the MENU button on the remote. The on-screen menu is displayed.

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



Setting the Auto Power Off Feature

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

To set the Auto Power Off feature:

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

ADJUSTING THE PICTURE SETTINGS

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

To adjust the picture settings:

1. Press the MENU button on the remote. The on-screen menu is displayed.
2. Use the Arrow buttons on the remote to highlight the Picture icon and press OK. The Picture Settings menu is displayed.
3. Use the Up/Down Arrow buttons on the remote to highlight Picture and press OK. The Picture Settings menu is displayed.
4. Use the Arrow buttons on the remote to highlight Picture Mode, then use the Left/Right Arrow buttons to change the picture mode:



- Standard mode sets the various picture settings to values that will produce the best picture in the most cases. This is the recommended setting.
- Movie mode sets the picture settings to values perfect for watching a movie in a dark room.
- Game mode optimizes the picture settings for displaying game console output.
- Vivid mode sets the picture settings to values that produce a brighter, more vivid picture.
- Football, Golf, Basketball, and Baseball modes optimize the picture settings for their respective sports. Also try these modes for other sports.
- Custom picture mode allows you to manually change each of the picture settings:

Backlight - Adjusts the LED brightness to affect the overall brilliance of the picture. This option is not available unless Ambient Light Sensor is set to OFF. See “Adjusting the Advanced Picture Settings” on page 21.

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.

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

Color - Adjusts the intensity of the picture colors.

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

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

Adjusting the Advanced Picture Settings

To adjust the advanced picture settings:

1. From the Picture Settings menu, use the Arrow buttons on the remote to highlight More, then press OK.
2. Use the Arrow buttons on the remote to highlight Advanced Picture, then press OK. The Advanced Picture menu is displayed.
3. Use the Arrow buttons to highlight the setting you wish to adjust, then press Left/Right Arrow to change the setting:



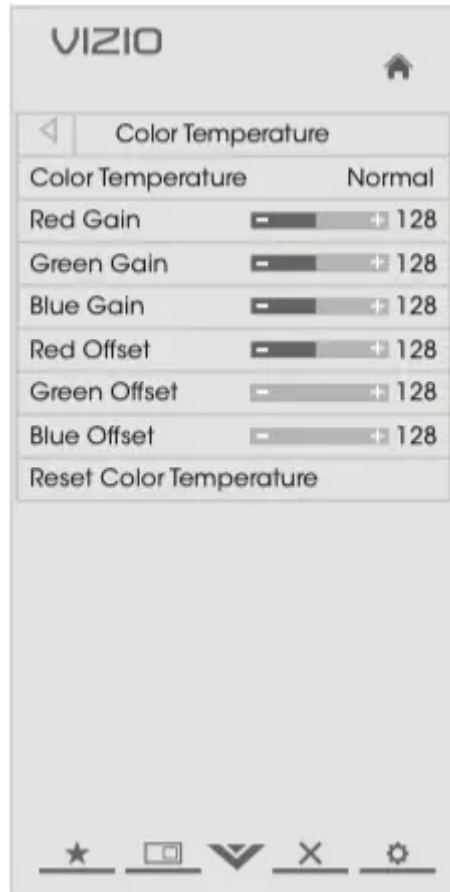
- Noise Reduction Diminishes artifacts in the image caused by the digitizing of image motion content. Select Off, Low, Medium, or High.
- MPEG NR - Reduces pixellation and distortion for .mpeg files. Select Off, Low, Middle, or High.
- Color Enhancement - Reduces oversaturation of some colors and improves flesh tones. Select Off, Normal, Rich Color, Green/Flesh, or Green/Blue.
- Adaptive Luma - Adjusts the average brightness of the picture to compensate for large areas of brightness. Select Off, Low, Medium, Strong, or Extend.
- Film Mode - Optimizes the picture for watching film. Select Auto or Off.
- Backlight Control - Select Off or DCR (Dynamic Contrast Ratio).
- Ambient Light Sensor - The ambient light sensor detects the light levels in the room and automatically adjusts the backlight for the best picture. Select Off, Low, Medium, or High.

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

Adjusting the Color Temperature

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

To adjust the color temperature:



1. From the Picture Settings Menu, use the Arrow buttons to highlight More, then press OK.
2. Use the Arrow buttons on the remote to highlight Color Temperature, then press OK. The Color Temperature menu is displayed.
3. Use the Arrow buttons on the remote to highlight Color Temperature, then use the Left/ Right Arrow buttons to change the color temperature preset:
 - Cool produces a blue-hued picture.
 - Computer optimizes the picture for use as a PC monitor.
 - Normal is optimized for television viewing.
 - Custom allows you to manually change each of the color temperature settings:
 - Red/Green/Blue Gain - Adjusts the amount of each color in the display.
 - Red/Green/Blue Offset - Adjusts the position of each color in the display.
4. If you want to reset the color temperatures to the factory default settings, highlight Reset Color Temperature and press OK.
5. When you have finished adjusting the color temperature, press the EXIT button on the remote.

Adjusting the Picture Size and Position

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

To adjust the picture size and position:



1. Ensure the input is set to ATV/ HDMI.
2. From the Picture Settings menu, use the Arrow buttons on the remote to highlight More, then press OK.
3. Use the Arrow buttons on the remote to highlight Size & Position, then press OK. The Size & Position menu is displayed.
4. Use the Arrow buttons to highlight the setting you wish to adjust, then press Left/Right Arrow to change the setting:
 - Horiz. Position - Adjusts the horizontal (left/right) position of the display image.
 - Vertical Position - Adjusts the vertical (up/down) position of the display image.
 - Horizontal Size - Adjusts the width of the display image.
 - Vertical Size - Adjusts the height of the display image.
5. When you have finished adjusting the color temperature, press the EXIT button on the remote.

Resetting the Picture Settings

To reset the picture settings to the factory default settings:

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

ADJUSTING THE AUDIO SETTINGS

To adjust the audio settings:

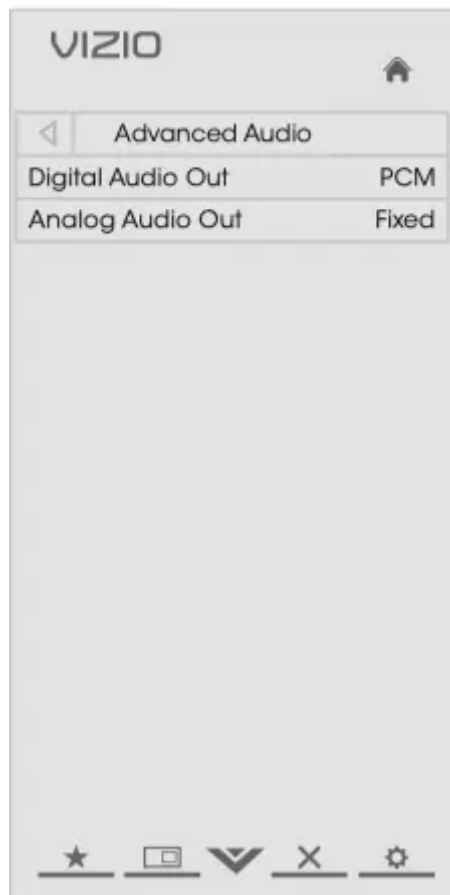


1. Press the MENU button on the remote. The on-screen menu is displayed.
2. Use the Arrow buttons on the remote to highlight Audio and press OK. The Audio Settings menu is displayed.
3. Use the Arrow buttons to highlight the setting you wish to adjust, then press Left/Right Arrow to change the setting: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

- Lip Sync - Adjusts the synchronization between the display image and the accompanying audio track.
- TV Speakers - Turns the built-in speakers on or off.
- DTS TruSurround -DTS TruSurround™ is a feature-rich surround sound solution which delivers an immersive surround sound experience from the TV's internal speakers. Additionally, TruSurround completes the entertainment experience by providing deep, rich bass, and delivering crisp details and clear, intelligible dialog. Select On or Off.
- Advanced Audio - See "Adjusting the Advanced Audio Settings" on page 24.
- Equalizer Settings - Adjusts the boost or attenuation of different frequencies.

Adjusting the Advanced Audio Settings

To adjust the advanced audio settings:



1. From the Audio Settings Menu, use the Arrow buttons to highlight Advanced Audio, then press OK. The Advanced Audio menu is displayed.
2. Use the Arrow buttons to highlight the setting you wish to adjust, then press Left/Right Arrow to change the setting:
 - Digital Audio Out Changes the type of processing for the Optical output when connected to a home theater audio system. Select Off, Dolby Digital, or PCM.

- Analog Audio Out - Sets the volume control properties for the analog RCA (red/ white) connectors when connected to a home theater audio system. Select Variable to control the external speakers' volume from the TV's volume controls, or select Fixed to control the external speakers' volume from your home theater system controls.

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

Resetting the Audio Settings

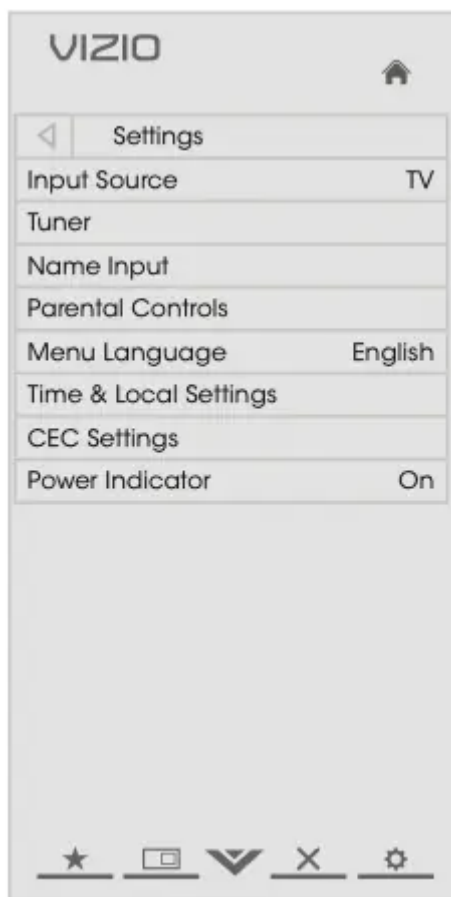
To reset the audio settings to the factory default settings:

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

CHANGING THE TV SETTINGS

Using the settings menu, you can:

- Change the input source
- Adjust the Tuner settings
- Name the TV inputs
- Set up parental controls
- Change the on-screen menu language
- Set the time
- Adjust the CEC settings
- Adjust the Power Indicator settings



Changing the Input Source

To change the input source from the Settings menu:

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

Setting the Tuner Mode

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

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

Scanning for Channels

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



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

Adding New Channels

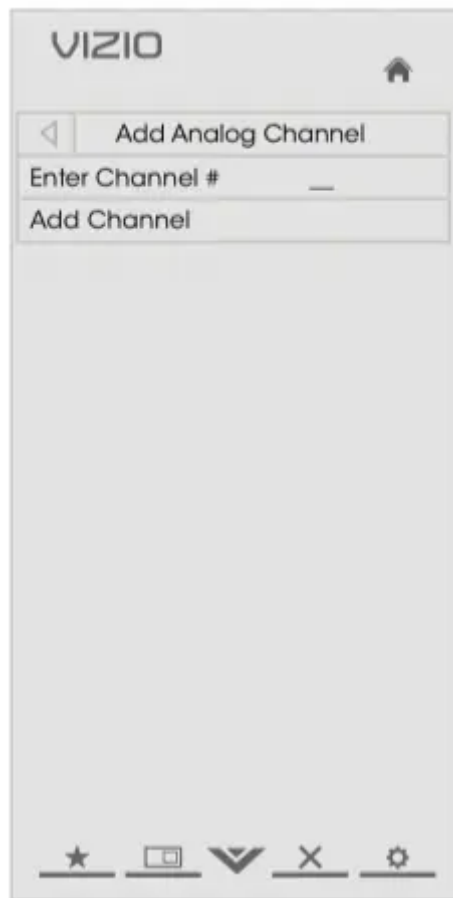
Occasionally, you may need to add a new analog channel or add a new range of channels. You can do this by using the Partial Channel Search and Add Analog Channel options.

To add a range of new channels:

1. From the Tuner menu, highlight Partial Channel Search. The Partial Channel Search menu is displayed.
2. Highlight Scan Mode and select the type of channel you are adding: Analog/Digital, Analog, or Digital.

3. Highlight From Channel and enter the channel from which you want to begin the scan. (Use the Number Pad on the remote to enter the channel.)
4. Highlight To Channel and enter the channel to which you want to end the scan. (Use the Number Pad on the remote to enter the channel.)
5. Highlight Start and press OK. The partial channel search begins.
6. Wait until the partial channel search is 100% complete. Highlight Done and press OK.
7. Press the EXIT button on the remote.

To add a single new analog channel:



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

Skipping Channels



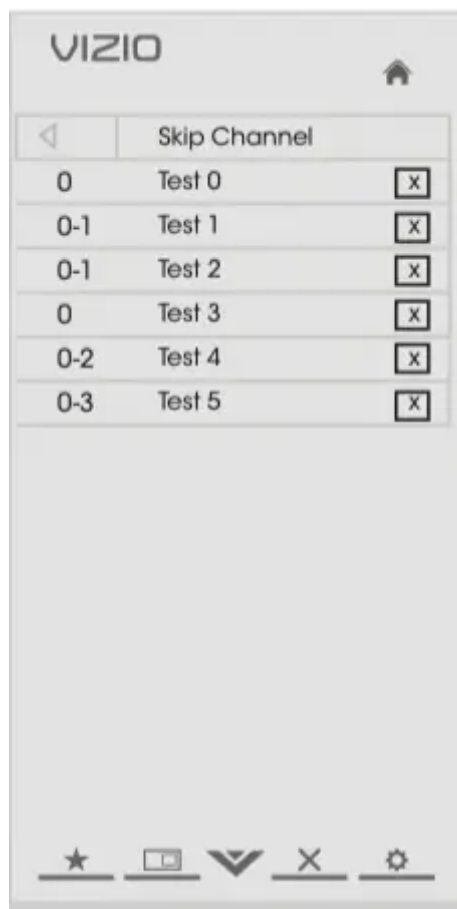
To quickly access the Input Source menu, press the INPUT button on the remote.

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



Channels that have been removed with the Skip Channel feature can still be viewed if the channel is entered using the Number Pad. If you wish to completely block a channel from being viewed, use the parental controls. See "Using the Parental Controls" on page 30.

To remove a channel:



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

Changing the Audio Language

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



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

To use the Analog MTS feature:

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



To use the Digital MTS feature:

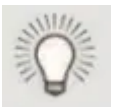


1. From the Tuner Settings menu, highlight Digital MTS and press OK. The Digital MTS menu is displayed.
2. Select your preferred language: English, French, or Spanish. Press OK.
3. Press the EXIT button on the remote.

Using the Parental Controls

The TV's parental controls allow you to prevent the TV from displaying certain channels or programs without a password. Accessing the Parental Controls Menu To access the Parental Controls menu:

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



To set a custom parental passcode, see "Changing the Parental Control Passcode" on page 31.

Enabling or Disabling Program Ratings

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

To enable or disable the Program Rating feature:

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

Locking and Unlocking Channels

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

To lock or unlock a channel:

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

Blocking and Unblocking Content by Rating

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

To block or unblock content by its rating:

1. From the Parental Controls menu, highlight the content type you want to adjust and press OK:
 - USA - TV - USA television program broadcasts. USA - Movie - USA movie broadcasts.
 - CAN - English - Canadian English television program broadcasts.
 - CAN - French - Canadian French television program broadcasts.
2. For each rating type you want to block or unblock, use the Up/Down and Left/Right Arrow buttons on the remote to highlight the rating type and press OK.
3. When the rating type is blocked, the Lock icon appears locked. Content with this rating cannot be viewed.
4. When the rating type is unblocked, the Lock icon appears unlocked. Content with this rating 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.

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

Resetting the Content Locks

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

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

Changing the Names of the Inputs

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

To change the name of an input:



1. Press the MENU button on the remote. The on-screen menu is displayed.
2. Use the Arrow buttons on the remote to highlight the Settings icon and press OK. The Settings menu is displayed.
3. Use the Arrow buttons on the remote to highlight Name Input and press OK. The Name Input menu is displayed.
4. Highlight Input Source and press OK. Highlight the input you want to rename and press OK.
5. If you would like to use a preset input label, highlight Input Labels and press OK. Highlight the input label you want to use and press OK.
If you would like to name the input yourself, highlight the field below Input Labels and enter your custom label using the on-screen keyboard and press OK.
6. When you have finished naming your input, press the EXIT button on the remote.

Changing the On-Screen Menu Language

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

To change the on-screen menu language:



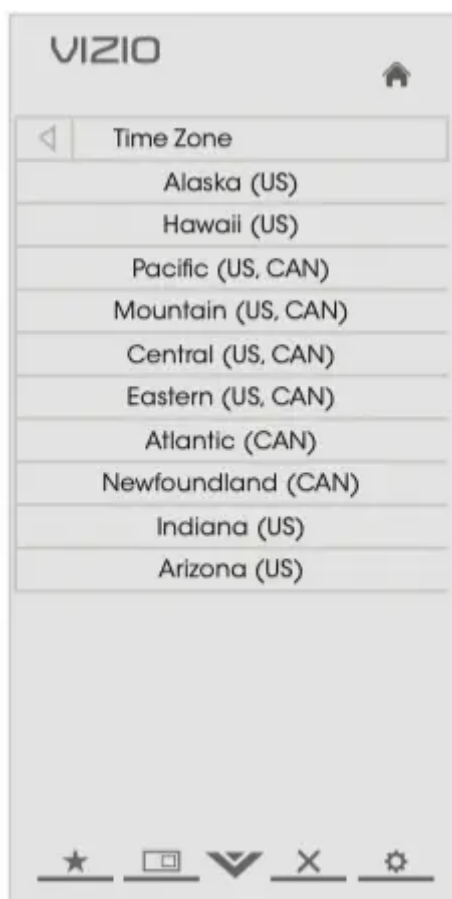
1. Press the MENU button on the remote. The on-screen menu is displayed.
2. Use the Arrow buttons on the remote to highlight the Settings icon and press OK. The Settings menu is displayed.
3. Use the Arrow buttons on the remote to highlight Menu Language and press OK. The Menu Language menu is displayed.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

Setting the Time Zone

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



To have the TV display the correct time, you must be connected to the internet via an Ethernet cable or a wireless network.



1. Press the MENU button on the remote. The on-screen menu is displayed.
2. Use the Arrow buttons on the remote to highlight the Settings icon and press OK. The Settings menu is displayed.
3. Use the Arrow buttons on the remote to highlight Time & Local Settings and press OK. The Time & Local Settings menu is displayed.
4. Highlight Time Zone and press OK. The Time Zone menu is displayed.
5. Highlight your time zone and press OK.
6. Highlight Daylight Savings and press OK. The Daylight Savings menu is displayed. Choose On if daylight savings is in effect, or Off if it is not.
7. Highlight Postal Code. Enter your ZIP code using the keypad on the remote, then press OK. The ZIP code information is often used by VIA Apps to give you the most accurate location-based information, such as weather or news.
8. Press the EXIT button on the remote.

Adjusting the CEC Settings

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



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

To enable, disable, or adjust CEC settings:

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

Turning the Power Indicator Light On or Off

The Power Indicator Light on the front of your TV is set to light up when the TV is on. You can change this setting if you prefer the light to be off.

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 the Settings icon and press OK. The Settings menu is displayed.
3. Highlight Power Indicator and press OK.
4. Use the Up/Down Arrow buttons to select On or Off, then press OK.

USING THE HELP MENU



You can use the TV's Help menu to:

- Display system information
- Reset the TV settings
- Restore the TV to its factory default settings
- Start Setup Wizard

Displaying System Information

To display a summary of the TV settings:

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

Resetting the TV Settings

To reset the TV's picture and audio settings:

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

Restoring the TV to Factory Default Settings

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



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

To restore the TV to its factory default settings:

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

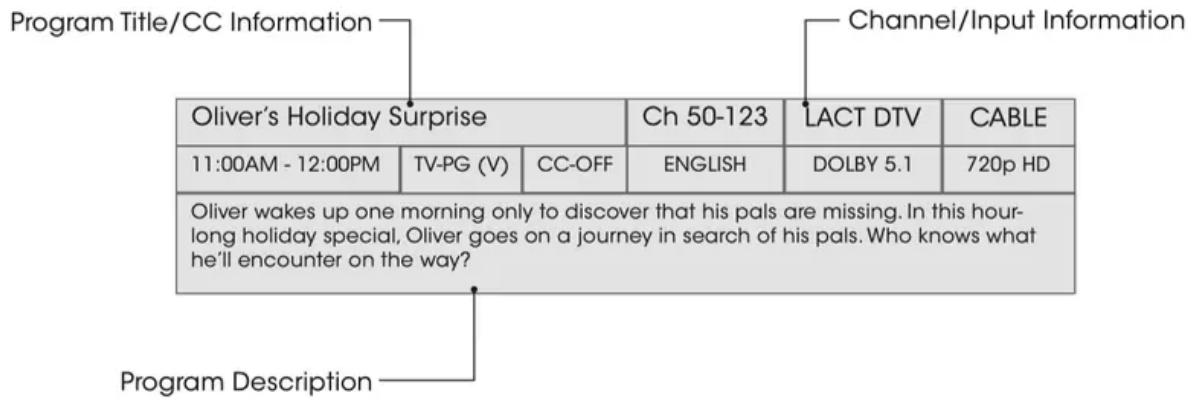
The TV displays, "Are you sure you would like to Restore Defaults? This will erase any custom settings."

5. Highlight Yes and press OK. The TV displays "Memory is being cleared. The TV will reset shortly."
6. Wait for the TV to turn off. The TV will turn back on shortly afterward and the Setup App will begin.

USING THE INFO WINDOW

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

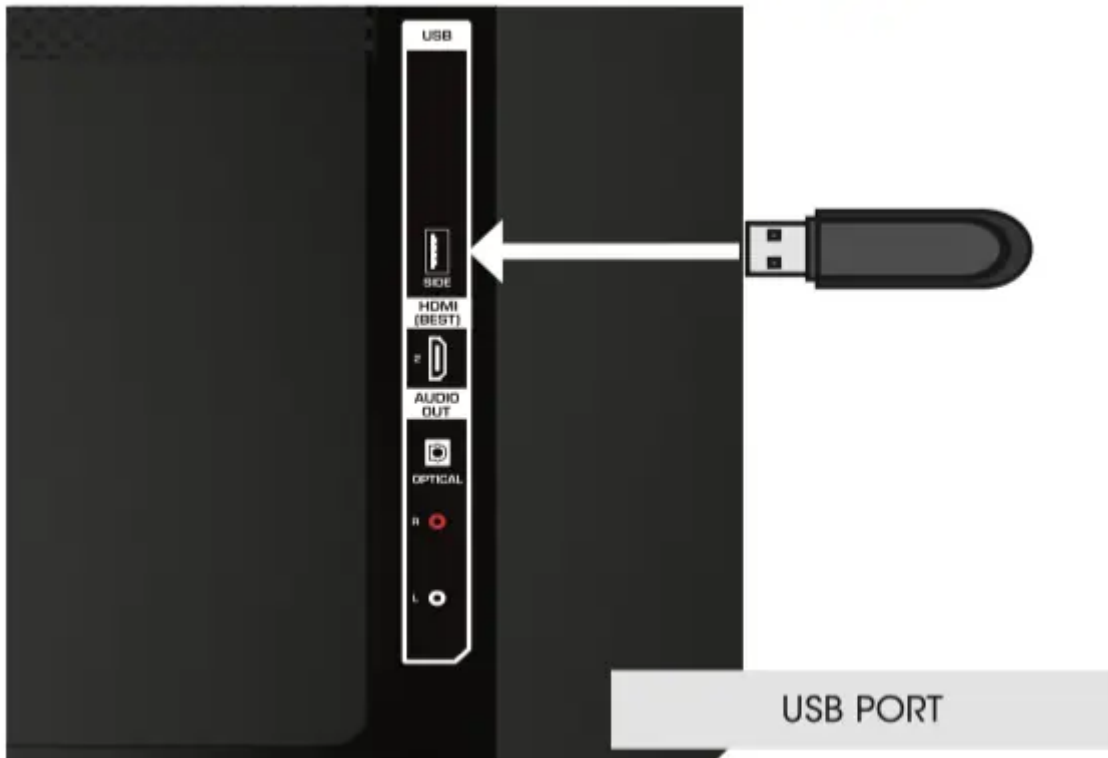
- Press the INFO or GUIDE button one time to display channel and input information.
- Press the INFO or GUIDE button two times to display the program title and closed captioning information.
- Press the INFO or GUIDE button three times to display the program description.



Using the USB Media Player

USING THE USB MEDIA PLAYER

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



Connecting a USB Thumb Drive to the TV

1. Turn the TV off. Connect your USB thumb drive to the USB port on the back of the TV.
2. Press the Power/Standby button on the remote or touch the Power control on the side of the TV to turn it on.



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

Playing USB Media

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

Remember:

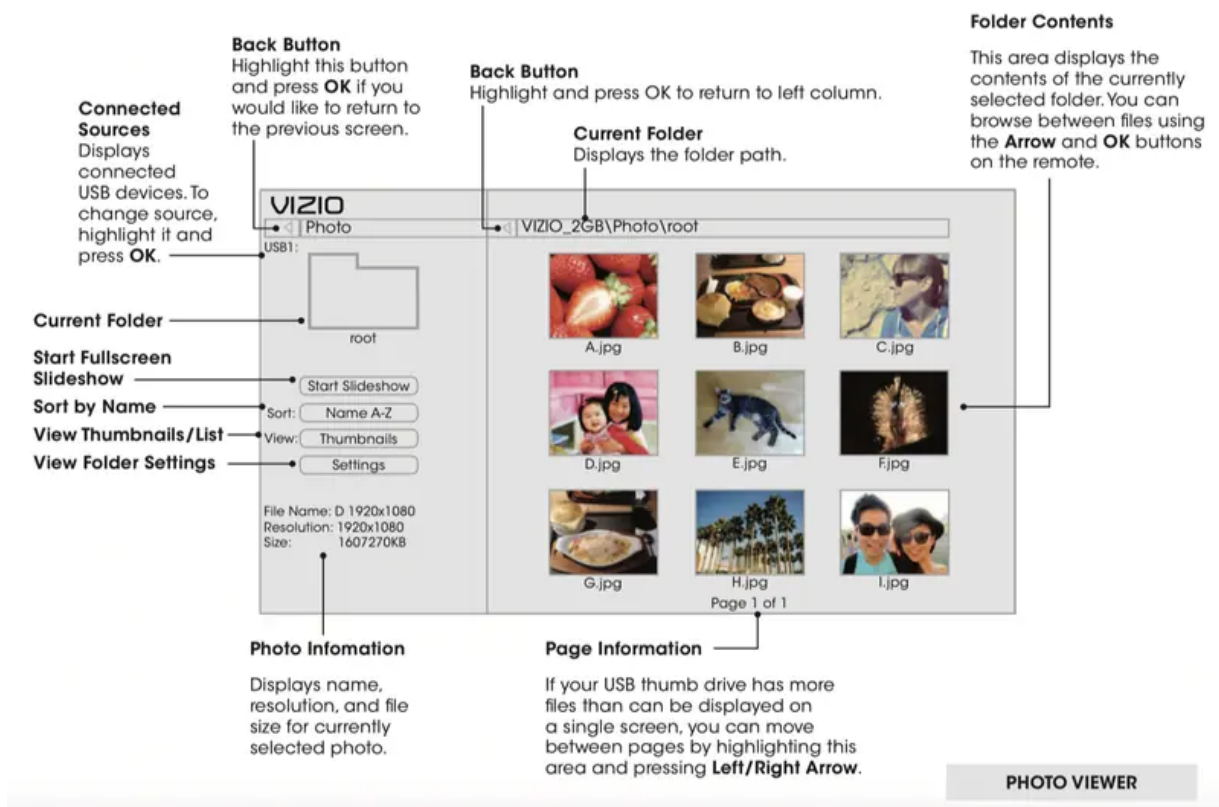
- The USB thumb drive must be formatted as FAT32.
- Files on the USB thumb drive must end in a supported file extension (.jpg).

To play your USB media:

1. Connect your USB thumb drive to the USB port on the side of the TV.
2. Highlight the Media App and press OK. The Media App launches.
3. Highlight your USB device in the list and press OK.
4. Highlight the type of media you wish to display: Photo. Press OK.
5. Use the Arrow buttons to highlight the file you want to display. Press OK. The file plays.



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



Troubleshooting

The TV displays “No Signal.”

- Press the INPUT button on the remote control to select a different input source.
- If you are using cable TV, satellite, or antenna connected directly to the TV, scan for channels. See Scanning for Channels on page 27.

There is no power.

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

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

- Ensure all cables are securely attached to the TV.
- Ensure all devices are connected correctly. Devices differ; see your device's user manual for details.
- Adjust Brightness, Contrast, or Backlight. See Adjusting the Advanced Picture Settings on page 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 24. Ensure the speakers are set to On.
- Ensure no headphones are connected to the TV.
- Check the audio connections of external devices (Blu-ray player, game console, cable/satellite box) that are connected to the TV.
- If you are using an antenna, the signal strength of the channel may be low. Ensure your antenna is connected securely to the TV and move the antenna around the room or close to a window for the best signal.

The colors on the TV don't look right.

- Adjust the Color and Tint settings in the Picture menu. See Adjusting the Picture Settings on page 20.
- Reset the picture settings. See Resetting the Picture Settings on page 23.
- Check all cables to ensure they are securely attached.

The buttons on the remote aren't working.

- Ensure you are only pressing one button at a time.

- Point the remote directly at the TV when pressing a button.
- Replace the remote batteries with new ones. See Replacing the Batteries on page 9.

The image quality is not good.

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

The picture is distorted.

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

The display image does not cover the entire screen.

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

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

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

I see “noise” or static on the screen.

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

When I change input source, the volume changes.

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

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

- The TV remembers the viewing mode on each input source. If the viewing mode on the new input source differs from the one on the input source you switch from, the difference may be noticeable.
- See Changing the Screen Aspect Ratio on page 17.

Warning

This content is compiled from multiple sources and is provided for reference purposes only. It may not be complete or fully applicable to all situations. If you are unable to resolve your issue, please contact the product manufacturer or an authorized service provider for official support.