VIZIO

E421VL
E470VL
E551VL

LCD **HDTV**

www.VIZIO.com

Dear VIZIO Customer,

Congratulations on your new VIZIO E421VL, E470VL, or E551VL television purchase. To get the most out of your new VIZIO HDTV, read these instructions before making any adjustments, and retain them for future reference. We hope you will experience many years of enjoyment from your new VIZIO HDTV High Definition Television.

For assistance, call **877-MYVIZIO** (877-698-4946) or e-mail us at www.VIZIO.com.

To purchase or inquire about accessories and installation services for your VIZIO HDTV, visit our website at www.VIZIO.com or call toll free at (**888) 849-4623.**

We recommend you register your VIZIO HDTV either at our website www.VIZIO.com or fill out and mail your registration card. For peace of mind and to protect your investment beyond the standard warranty, VIZIO offers on-site extended warranty service plans. These plans give additional coverage during the standard warranty period. Visit our website or call us to purchase a plan.

Write down the serial number located on the back of your HDTV for easy reference when obtaining warranty support:

Serial #: _____ Purchase Date _____

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HDMI logo and "High Definition Multimedia Interface" are registered trademarks of HDMI Licensing LLC.

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Dolby and the double-D symbol are trademarks of Dolby Laboratories.

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This product qualifies for ENERGY STAR in the "factory default (Home Use)" setting and this is the setting in which power savings will be achieved. Changing the factory default picture setting or enabling other features will increase power consumption that could exceed the limits necessary to qualify for Energy Star rating.

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Important Safety Instructions

Your HDTV is designed and manufactured to operate within defined design limits. Misuse may result in electric shock or fire. To prevent your HDTV from being damaged, the following rules should be observed for the installation, use, and maintenance of your HDTV. Read the following safety instructions before operating your HDTV. 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 HDTV.
- Unplug the power cord before cleaning your HDTV. A damp cloth is sufficient for cleaning your HDTV. Do not use a liquid or a spray cleaner for cleaning your HDTV. Do not use abrasive cleaners.
- Always use the accessories recommended by the manufacturer to insure compatibility.
- When moving your HDTV from an area of low temperature to an area of high temperature, condensation may form in the housing. Wait before turning on your HDTV to avoid causing fire, electric shock, or component damage.

- Use only with the cart, stand, tripod, bracket, or table specified by manufacturer or sold with your HDTV. When a cart is used, use caution when moving the cart/HDTV combination to avoid injury from tip-over. Do not place your HDTV on an unstable cart, stand, or table. If your HDTV falls, it can injure a person and cause serious damage to your HDTV. Use only a cart or stand recommended by the manufacturer or sold with your HDTV.
- A distance of at least three feet should be maintained between your HDTV and any heat source, such as a radiator, heater, oven, amplifier etc. Do not install your HDTV close to smoke. Operating your HDTV 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 HDTV and to protect it from overheating, be sure these openings are not blocked or covered. Do not place your HDTV in a bookcase or cabinet unless proper ventilation is provided.
- Never push any object into the slots and openings on your HDTV cabinet. Do not place any objects on the top of your HDTV. Doing so could short circuit parts causing a fire or electric shock. Never spill liquids on your HDTV.
- Your HDTV 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 HDTV. 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.
- Your HDTV is equipped with a **three-pronged grounded plug (a plug with a third grounding pin)**. This plug will fit only into a grounded power outlet. This is a safety feature. If your outlet does not accommodate the three-pronged, have an electrician install the correct outlet, or use an adapter to ground your HDTV safely. **Do not defeat the safety purpose of the grounded plug.**
- When connected to a power outlet, power is always flowing into your HDTV. 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 HDTV that may be of sufficient magnitude to constitute a risk of electric shock to persons.

- The exclamation point within an equilateral triangle is intended to alert the user to the presence of important operating and servicing instructions in the literature accompanying your HDTV.
- Do not overload power strips and extension cords. Overloading can result in fire or electric shock.

- The wall socket should be installed near your HDTV and easily accessible.
- Only power of the marked voltage can be used for your HDTV. 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 HDTV during a lightning storm or when it will not be used for long period of time. This will protect your HDTV from damage due to power surges.
- Do not attempt to repair or service your HDTV 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.
- Keep your HDTV away from moisture. Do not expose your HDTV to rain or moisture. If water penetrates into your HDTV, unplug the power cord and contact your dealer. Continuous use in this case may result in fire or electric shock.
- Do not use your HDTV 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 HDTV yourself.
- Avoid using dropped or damaged appliances. If your HDTV 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 HDTV may cause fire or electric shock.
- Do not install your HDTV in an area with heavy dust or high humidity. Operating your HDTV in environments with heavy dust or high humidity may cause fire or electric shock.
- Follow instructions for moving your HDTV. Ensure that the power cord and any other cables are unplugged before moving your HDTV.
- When unplugging your HDTV, hold the power plug, not the cord. Pulling on the power cord may damage the wires inside the cord and cause fire or electric shock. When your HDTV 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.
- If any of the following occurs, contact the dealer:
    - The power cord fails or frays.
    - Liquid sprays or any object drops into your HDTV.
    - Your HDTV is exposed to rain or other moisture.
    - Your HDTV is dropped or damaged in any way.
    - The performance of your HDTV changes substantially.

Television Antenna Connection Protection

External Television Antenna Grounding

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

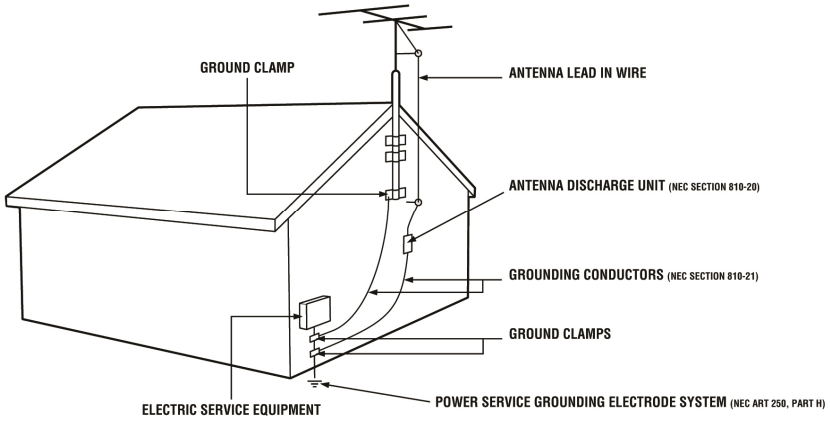
Article 810 of the National Electrical Code, ANSI/NFPSA 70, provides information with regard to proper grounding of the mast and supporting structure, grounding of the lead-in wire to an antenna discharge unit, size of the grounding conductors, location of antenna discharge unit, connection to grounding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

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.

Advisory of the DTV Transition

The nationwide switch to digital television broadcasting will be complete on June 12, 2009, but your local television stations may switch sooner. After the switch, analog-only television sets that receive TV programming through an antenna will need a converter box to continue to receive over-the-air TV. Watch your local stations to find out when they will turn off their analog signal and switch to digital-only broadcasting. Analog-only TVs should continue to work as before to receive low power, Class A or translator television stations and with cable and satellite TV services, gaming consoles, VCRs, DVD players, and similar products.

For additional information, contact the parties listed below, as appropriate:

FCC (US Federal Communications Commission)
http://www.fcc.gov/
Phone: 1-888-CALL-FCC (1-888-225-5322)
TTY: 1-888-TELL-FCC (1-888-835-5322)
Fax: 1-866-418-0232
E-mail: fccinfo@fcc.gov

NTIA (National Telecommunications and Information Administration)
http://www.ntia.doc.gov/
1-888-DTV-2009

Listings of US Television Stations
http://www.high-techproductions.com/usTVstations.htm

Note: Your VIZIO HDTV is capable of receiving Digital Broadcasts, and no Digital Converter Box is required.

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Opening the Package

Your HDTV and its accompanying accessories are carefully packed in a cardboard carton that has been designed to protect it from transportation damage. After you have opened the carton, check that your HDTV is in good condition and that all of the contents are included.

The glass surface can easily be scratched or broken, so handle your HDTV gently and never place your HDTV with the glass facing downwards on a surface without protective padding.

IMPORTANT: Save the carton and packing material for future shipping.

Package Contents

- VIZIO E421VL or E470VL or E551VL
- VIZIO remote control VR15 (E421VL only)
- VIZIO remote control VUR13M (E470VL and E551VL only)
- AA batteries for the VR15 remote control (2)
- AAA batteries for the VUR13M remote control (2)
- Power cord
- Detachable base with thumbscrew (E421VL and E470VL only)
- This user manual
- Quick Setup Guide
- Registration Card

HDTV Accessories and Services

Additional certified accessories for your HDTV are sold separately, including:

- Wall mounts
- High Definition cables
- Extra or replacement remote controls
- Sound Bars
- Blu-ray DVD Players

VIZIO also offers installation services and extended warranty services for your HDTV.

To purchase or inquire about additional accessories and services for your VIZIO HDTV, visit our website at www.VIZIO.com or call us toll free at **877-MYVIZIO** (877-698-4946).

Caution: Do not apply pressure or throw objects at your HDTV (including game controllers).
This may compromise the integrity of the display. The manufacturer's warranty does not cover user abuse or improper installations.

Chapter 1 Setting Up Your HDTV

- Read this user manual carefully before installing your HDTV.
- The power consumption of your HDTV is about 111W (E421VL); 134W (E470VL); 155W (E551VL) average. Use the included AC/DC power adapter. When an extension cord is required, use one with the correct power rating. The cord must be grounded and the grounding feature must not be compromised.
- Install your HDTV on a flat surface to avoid tipping.
- For proper ventilation, you must allow a 1" space between the back of your HDTV and the wall.
- Avoid installing your HDTV in places with high humidity, dust, or smoke so you do not shorten the service life of the electronic components.
- Install your HDTV in a level, landscape orientation, with the VIZIO logo at the bottom to prevent poor ventilation and excessive component damage.
- If you want to mount your HDTV on the wall, see below for additional information.
- Read this user manual carefully before installing your HDTV.

VIZIO offers professional installation services including home networking. Contact VIZIO for more information on these services at **877-MYVIZIO** (877-698-4946) or www.VIZIO.com.

Attaching the E421VL TV Stand

Note: We strongly recommend that two people perform the setup and assembly due to the weight and size of the TV.

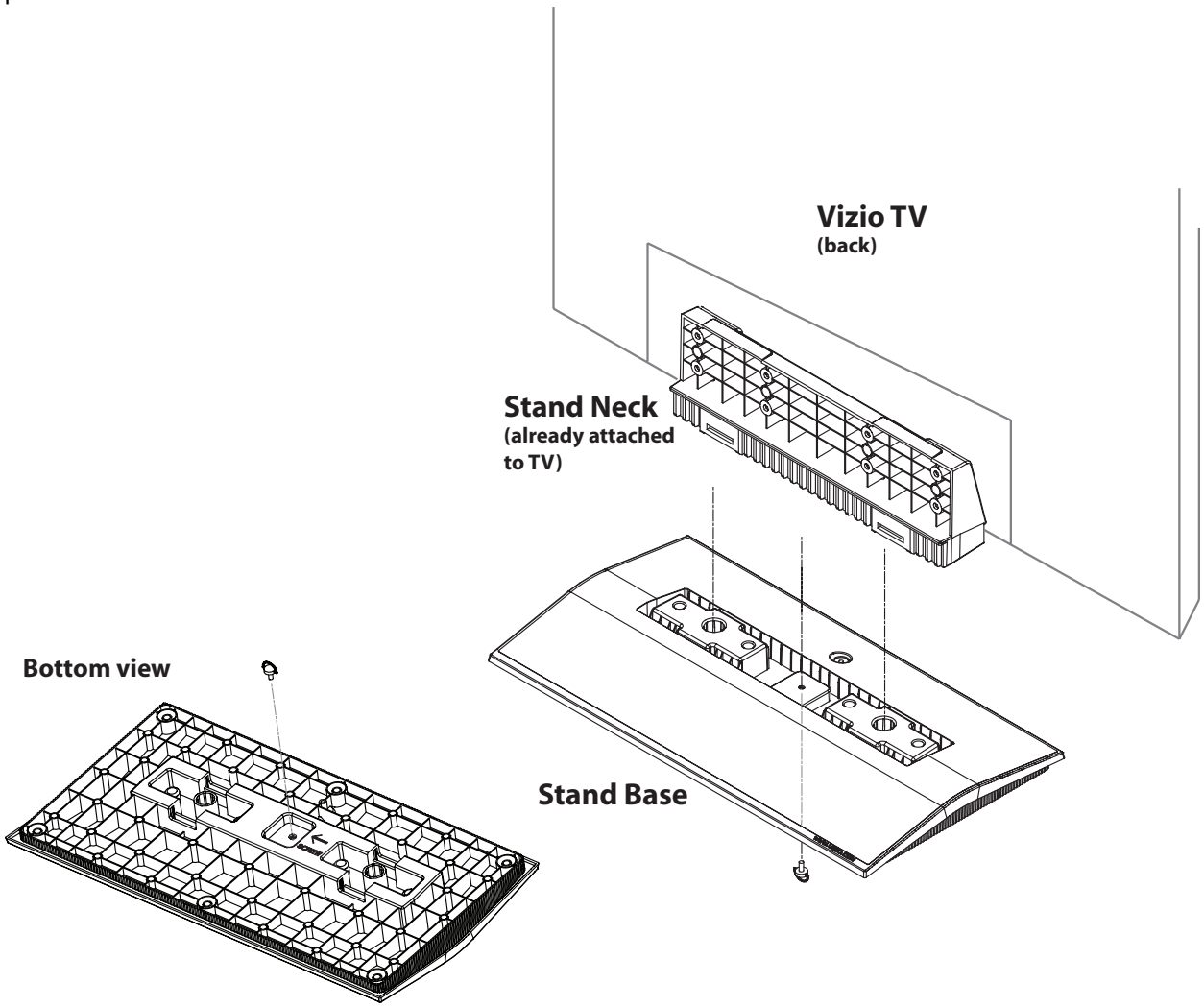
Unpack the TV and stand base:

1. Remove the remote control, batteries, and power cord from the foam end caps.
2. Remove the two top foam end caps.
3. Remove the stand base from the packaging.
4. Remove the TV from the box and lay it face down on a clean, flat surface.

Note: Make sure that the surface is free of debris to prevent the TV screen from getting scratched.

Attach the TV stand base:

1. Push the stand base onto the stand neck (already connected to TV).
2. On the bottom of the base, insert the thumb screw and tighten. Move the TV into an upright position.



Attaching the E470VL TV Stand

Note: We strongly recommend that two people perform the setup and assembly due to the weight and size of the TV.

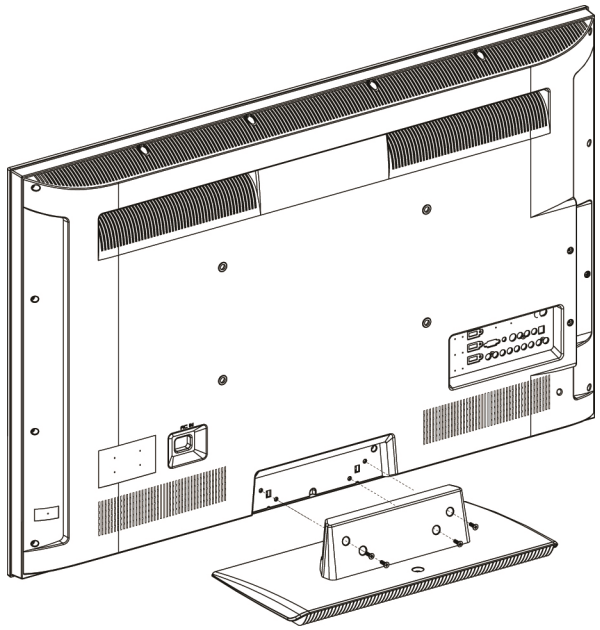
Unpack the TV and stand base:

1. Remove the remote control, batteries, and power cord from the foam end caps.
2. Remove the two top foam end caps.
3. Remove the stand base from the packaging.
4. Remove the TV from the box and lay it face down on a clean, flat surface.

Note: Make sure that the surface is free of debris to prevent the TV screen from getting scratched.

Attach the TV stand base:

1. Align the stand base to the back of the TV.
2. Insert the four screws provided and tighten.



Wall Mounting your HDTV

Your HDTV can be mounted on the wall for viewing. If you choose to mount your HDTV on the wall, follow the instructions below.

1. Write down the serial number located on the back of your HDTV in the space provided on page 1 to have it handy if you need to call for support.

2. Remove the stand base and neck:
    a. Disconnect the cables from your HDTV.
    b. Place your HDTV face down on a soft, flat surface to prevent damage to the screen.
    c. Remove the six (6) screws holding the stand neck, and then remove the neck and base.

Note: To remove the base from the neck, unscrew thumbscrew on bottom.

3. Mount your HDTV on the wall:
    a. Attach your HDTV to a wall mount (sold separately) using the mounting holes in the back panel of your HDTV.
    b. Read the instructions that came with your specific wall mount to properly hang your HDTV.

Wall Mounting Specifications (E421VL & E470VL)	
Screw Size	M6
Screw Length	20.0 mm
Screw Pitch	1.0 mm
Hole Pattern	VESA standard 200 x 200 mm spacing

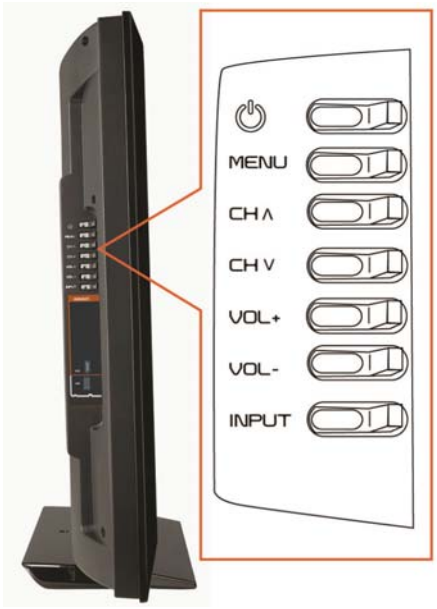
Wall Mounting Specifications (E551VL)	
Screw Size	M8
Screw Length	25 mm
Screw Pitch	1.25 mm
Hole Pattern	VESA standard 400 x 200 mm spacing

Chapter 2 Basic Controls and Connections

Front Panel

1. **Remote Control Sensor**—Point the remote control directly at this window on the lower left corner of your HDTV for the best response to the remote signal.
2. **POWER 'VIZIO' LIGHT—**The VIZIO name lights white when powered on and orange when powered off.

Side Panel Controls



POWER (⏻ **)**—Turn your HDTV on by pressing the button once. Press the button again to turn your HDTV off.

MENU—Press to launch the on-screen menu. If a sub-menu is active, this button will proceed to the next level.

CH ▲/▼—Press to change the channels up or down. While the menu is active, these buttons function as up and down controls.

VOL + / - —Press to increase or decrease the speaker volume. While the menu is active, these buttons function as left and right controls.

INPUT (ENTER) —Press to cycle through the various devices connected to your TV (called Inputs). The inputs cycle in the following sequence: TV, AV, Comp, HDMI-1, HDMI-2, HDMI SIDE, RGB, and Media. After you have stepped through the entire sequence, you will return to the beginning.

Additionally, when the OSD is active, this button confirms the menu function to be adjusted.

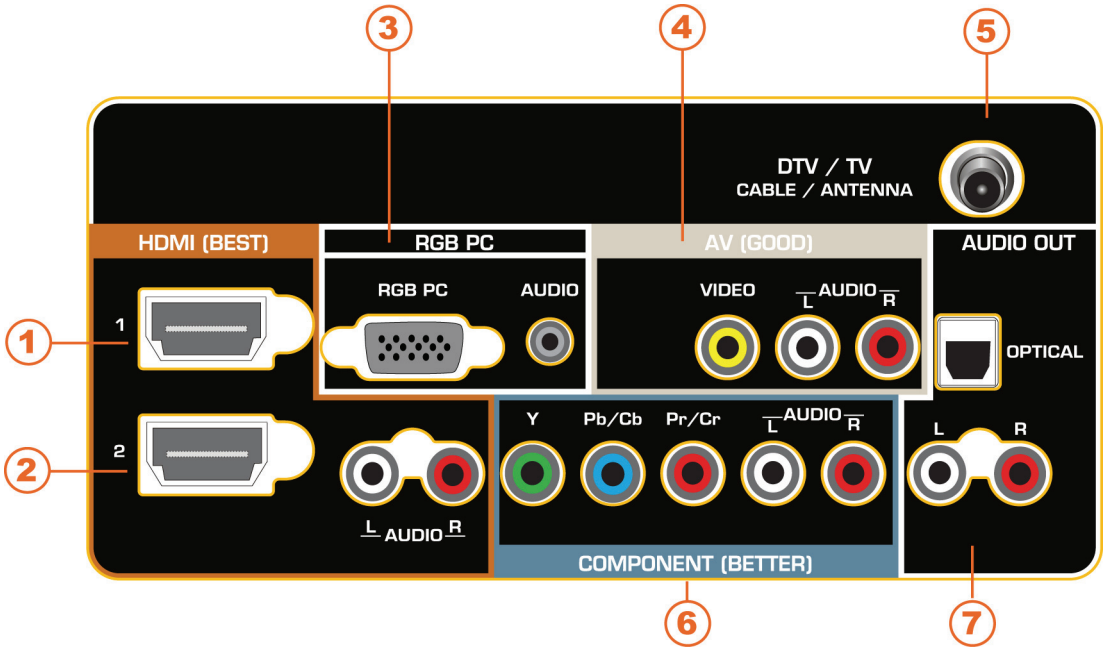
Side Panel Connection

HDMI—Connect digital video devices such as a DVD player or Set-Top Box through this all digital connector. There are additional HDMI connectors on the back.

USB:

- Insert a FAT/FAT32 formatted USB drive to view pictures.
- Service port for use by a professional service technician.

Rear Panel Connections



1. **HDMI 1—**Connect digital video devices such as a DVD player or Set-Top Box through this all digital connector. There is an additional HDMI connector on the side.
2. **HDMI 2 with L/R Audio—**Connect another digital video device such as a DVD player or Set-Top Box through this all digital connector. For users who want to connect to a DVI enabled device, use a DVI-HDMI cable and connect the analog audio output of the device to the **L / R AUDIO** here. Your VIZIO Certified HDMI-DVI cables are available for purchase from www.VIZIO.com or by calling **877-MYVIZIO** (877-698-4946).
3. **RGB PC—**Connect the video and audio from a computer here. Connect a 1/8” mini plug stereo connector from the computer to the TV if you want the sound to come from the HDTV speakers.
4. **AV—**Connect composite video devices, such as a VCR or game console. Use the white and red connectors to connect the external audio from the same source.
5. **DTV/TV—** Connect to an antenna or digital cable source. For digital TV stations in your area visit www.antennaweb.org. For cable and satellite Set-Top boxes, we recommend that you use a HDMI or component cable connection for high definition image quality.
6. **COMPONENT (Y Pb/Cb Pr/Cr with L/R Audio)—**Connect component video devices such as a DVD Player or set top box here.
7. **AUDIO OUT**:
   - OPTICAL—When digital TV is selected for viewing, the audio associated with the programming will be available on the S/PDIF Optical connector for connection to a VIZIO Sound Bar or your Home Theater system.
   - ANALOG L/R—Connect the audio from the HDTV to an external device, such as a home theater system, external amplifier, or stereo. Speakers cannot be connected directly here.

Chapter 3 VIZIO Remote Control

Installing the Batteries

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

Precautionary Tips for Inserting the Batteries:

- Do not mix new and old batteries. This may result in cracking or leakage that may cause a fire or lead to personal injury.
- Inserting the batteries incorrectly may also result in cracking or leakage that may cause a fire or lead to personal injury.
- Dispose of batteries according to local hazardous waste regulations.
- Keep the batteries away from children and pets.

Remote Control Range

- Point the remote control directly at this sensor for the best response to the remote signal.
- Do not place any obstacles between the remote control and the remote control sensor.
- The effective range of the remote control is approximately 22 feet (7 meters) from the front of the remote control sensor, 30° to the left and right, 20° up and down.

VIZIO Remote Control Precautions

- The remote control should be kept dry and away from heat sources. Avoid humidity.
- If the TV responds erratically to the remote control or does not respond at all, check the batteries. If the batteries are low or exhausted, replace them with fresh batteries.
- When not using the remote control for a long period of time, remove the batteries.
- Do not take the batteries apart, heat them, or throw them into a fire.
- Do not subject the remote control to undue physical stress, such as striking or dropping it.
- Do not attempt to clean the remote control with a volatile solvent. Wipe it with a clean, damp cloth.

E421VL Remote Control Buttons

POWER ( )—Press to turn the TV on from the Standby mode. Press it again to return to the Standby mode.

CEC-Supported Buttons:

CEC needs to be set up and enabled for these buttons to work. See *CEC* on page 44 for more information.

- ● (Record)—Press to begin recording on your CEC-supported device.
- ❚❚ (Pause)—Press to pause playback on your CEC-supported device.
- ► (Play)—Press to start Playback on your CEC-supported device.
- ■ (Stop)—Press to stop playback/recording on your CEC-supported device.
- ⏮ (Previous)—Press to skip the previous track on your CEC-supported device.
- ◄◄ (Reverse)—Press to reverses playback on your CEC-supported device.
- ►► (Fast Forward)—Press to fast forward playback on your CEC-supported device.
- ⏭ (Next)—Press to skip to the next chapter on your CEC-supported device.

EXIT—Press to exit from open menus.

MENU—Press to open the On-Screen Display (OSD) menu.

OK—Press this button to display the Channel List. Press to confirm selections for On-Screen Display (OSD) menus.

Silver Diamond (represented by ▲▼◄ ► in the manual instructions)—Pressing up, down, left, or right on the points of the diamond are used to navigate the OSD menu. They will also be used as value settings when the slide bar is shown on the screen and option settings to turn a feature off or on.

BACK—Press to return to a previous OSD menu.

GUIDE—Press to display detailed program information when viewing a digital TV program.

Color Buttons (Yellow, Blue, Red, & Green)—These buttons currently do not operate any functions on your HDTV.

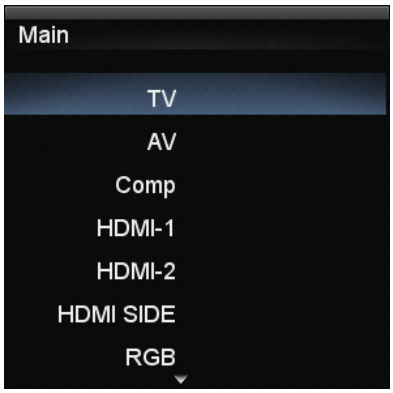
VOL +/- —Press to turn the volume up or down.

MEDIA – Use this button to access the USB drive to view your pictures.

MUTE—Press to turn the sound on and off.

LAST— Press to recall the previously viewed channel.

CH +/- —Press to change the channels up or down



HDMI—Press to select the HDMI input. Press repeatedly to cycle between both HDMI inputs.

AV—Press to select the AV input.

TV—Press to select the TV input.

Number Button Pad—Press to select a channel or enter a password.

INPUT—Press to cycle through the various devices connected to your TV (called Inputs). The inputs cycle in the following sequence: TV, AV, Comp, HDMI-1, HDMI-2, HDMI SIDE, RGB, and Media. After you have stepped through the entire sequence, you will return to the beginning.

- (DASH)—Press to insert a dash between the main and sub-channels. For example, channel 28-2 would be selected by the button sequence 2, 8, DASH, 2.

E470VL & E551VL Remote Control Buttons

POWER ( )—Press to turn the TV on from the Standby mode. Press it again to return to the Standby mode.

Device Buttons:

- **DVD**—Press to select a DVD player that has been programmed to work with this remote. See page 46 to program your remote control.
- **AUDIO**—Press to select a Home Theater System or Audio Amplifier that has been programmed to work with this remote. See page 46 to program your remote control.
- **CABLE**—Press to select a cable or satellite Set-Top box that has been programmed to work with this remote. See page 46 to program your remote control.
- **TV**—Press to return to TV mode. If the remote is not working, press this button to return the functions back to TV.

CEC-Supported Buttons:

CEC needs to be set up and enabled for these buttons to work. See *CEC* on page 44 for more information.

● (Record)—Press to begin recording on your CEC-supported device.

❚❚ (Pause)—Press to pause playback on your CEC-supported device.

► (Play)—Press to start Playback on your CEC-supported device.

■ (Stop)—Press to stop playback/recording on your CEC-supported device.

⏮ (Previous)—Press to skip the previous track on your CEC-supported device.

◂◂ (Reverse)—Press to reverses playback on your CEC-supported device.

▸▸ (Fast Forward)—Press to fast forward playback on your CEC-supported device.

⏭ (Next)—Press to skip to the next chapter on your CEC-supported device.

EXIT—Press to exit from open menus.

MENU—Press to open the On-Screen Display (OSD) menu.

OK—Press this button to display the Channel List. Press to confirm selections for On-Screen Display (OSD) menus.

Silver Diamond (represented by ▲▼◄ ► in the manual instructions)—Pressing up, down, left, or right on the points of the diamond are used to navigate the OSD menu. They will also be used as value settings when the slide bar is shown on the screen and option settings to turn a feature off or on.

BACK—Press to return to a previous OSD menu.

GUIDE—Press to display detailed program information when viewing a digital TV program.

Color Buttons (Yellow, Blue, Red, & Green)—These buttons currently do not operate any functions on your HDTV.

VOL +/- —Press to turn the volume up or down.

MEDIA – Use this button to access the USB drive to view your pictures.

MUTE—Press to turn the sound on and off.

LAST— Press to recall the previously viewed channel.

CH +/- —Press to change the channels up or down

HDMI—Press to select the HDMI input. Press repeatedly to cycle between both HDMI inputs.

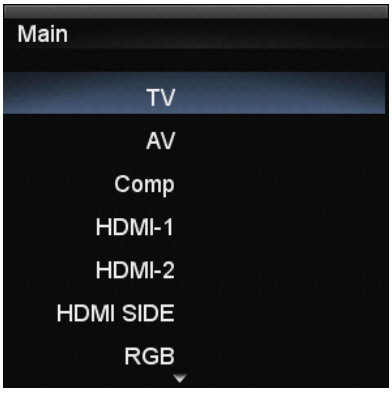
AV—Press to select the AV input.

TV—Press to select the TV input.

Number Button Pad—Press to select a channel or enter a password.

INPUT—Press to cycle through the various devices connected to your TV (called Inputs). The inputs cycle in the following sequence: TV, AV, Comp, HDMI-1, HDMI-2, HDMI SIDE, RGB, and Media. After you have stepped through the entire sequence, you will return to the beginning.

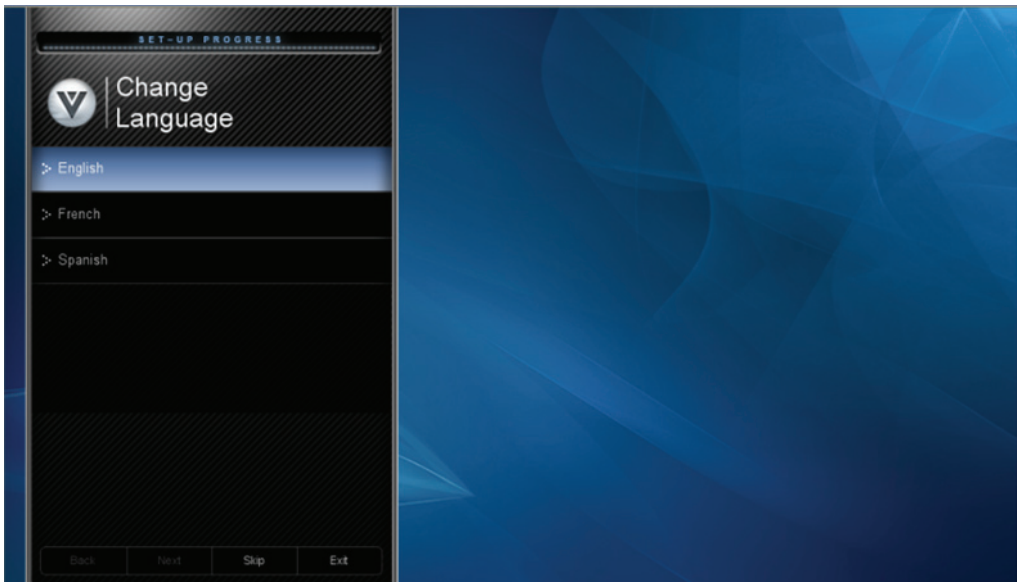
- (DASH)—Press to insert a dash between the main and sub-channels. For example, channel 28-2 would be selected by the button sequence 2, 8, DASH, 2.



Chapter 4 Getting Started

Your HDTV has a built-in setup App that runs when you turn on your TV for the first time. Follow the on-screen directions to easily setup your new HDTV.

1. Insert the batteries into the remote control.
2. Connect the power cord to the power cord connector on the back of your HDTV, and then plug the power cord into an AC wall socket.
3. Connect your devices to your HDTV (see Chapter 6 for detailed steps).
4. Turn on your TV. The Setup App will automatically play and guide your thru the initial setup of your HDTV. Use the Arrow and OK buttons to navigate through the setup App. During the setup process you will:
    - Choose your Menu language
    - Set the TV to Home Mode for the best picture and most efficient energy usage.
    - Set your Time Zone and Daylight Savings preferences
    - Add your TV channels (unless you have a Cable/Satellite Set-Top Box)



Chapter 5 Using your HDTV for the first time

Select Input Source

Select the input source for your HDTV by pressing the **INPUT** button on the remote control or the side of your TV. Pressing this button will cycle you through the following options: TV, AV, Comp, HDMI-1, HDMI-2, HDMI SIDE, RGB, and Media.

Turn on your device and you will see a picture on your HDTV. If there is no picture, make sure you have selected the correct input on your HDTV.

Note: If the selected device is RF connected, your HDTV needs to be in **TV** mode and on either channel 3 or channel 4 matching the channel which has been selected on the back of the VCR, Cable Box, External TV Tuner or Satellite Receiver. Refer to Owner or User's Manual of such equipment for details.

Watching a TV Program

Before you start watching TV, make sure that any cable, satellite or off-air antenna connections are secure. Also, verify that the AC/DC power adapter is plugged into a correctly grounded electrical outlet or surge protector.

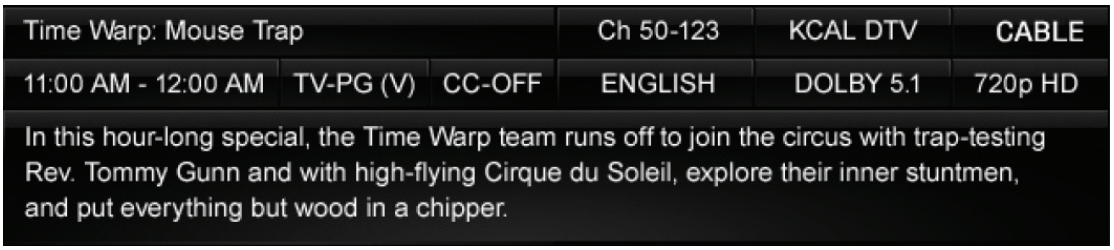
1. Press the power button on the remote control. The VIZIO logo on the front will light up white.
2. Select the input to which your device is connected that provides TV programming (i.e. TV, HDMI, COMP).

Note: You should be able to see a picture. If you do not, make sure that all of your HDTV connections are secure and you have selected the correct video input source. Each press of the **INPUT** button on the remote control will cycle through the available inputs. Press the button until the input associated with the device you want to view is shown.

3. When using the TV input, press the channel buttons on the remote control or the TV to change the channel. The channel buttons will not work if you are watching a program using HDMI, Component, or AV inputs.

Viewing Digital TV Program Information

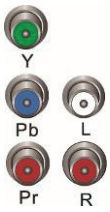
When the channel is changed or when you press the **GUIDE** button, an information header is shown over the picture for a few seconds. Each press of the **GUIDE** button will display more information about the program:



Chapter 6 Connecting Equipment

Which Video Connection Should I Use?

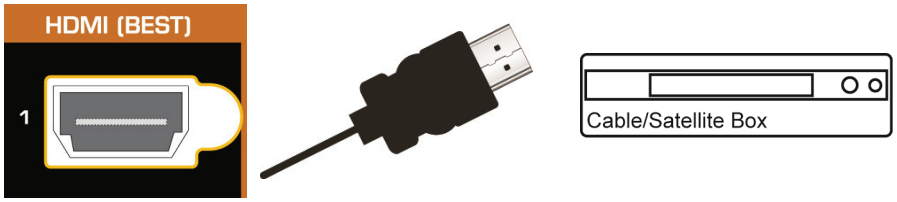
You have six options for connecting your video equipment box to your HDTV from a basic connection to the most advanced for digital displays. Based on your Home Theater configuration, you can decide which option is the right one for you.

Connection Quality (type)	Connector	Description
Best (digital)		**HDMI** delivers the best image quality of any of the cable types available and it's all done over one cable. You get a great picture and cut down on your cable clutter. HDMI provides digital quality and amazing sound so if your TV has HDMI, this is the connection type you should be using.
Best (digital) - - - - - - - - - - - Good (analog)		Connect your **antenna** or **coaxial** cable to watch TV programming. This cable usually comes from your cable box or right out of the wall.
Best (analog)		The **RGB (VGA)** port allows you to connect your computer so you can use the TV as your monitor.
Better (analog)		**Component** consists of three cables for transmitting video and two cables for transmitting audio: one red and one white. Component video provides a sharper image than Composite video and should be used instead of composite when possible. However, because it is still an analog connection, it won't provide the high-quality video and audio that HDMI can produce.
Good (analog)		**Composite** consists of one yellow cable for transmitting video and two cables for transmitting audio: one red and one white. It is capable of transmitting stereo sound and standard definition video (480i). While it provides a good image, it has lower image quality than HDMI or Composite. So try to use one of those connections first.

Note: To maintain the display quality, use a VIZIO certified HDMI cable. This cable is available in 6, 8, and 12 foot lengths. Visit www.vizio.com or call 1-888-VIZIOCE (1-888-849-4623) for details.

Connecting Your Cable or Satellite Box

Using HDMI (Best)



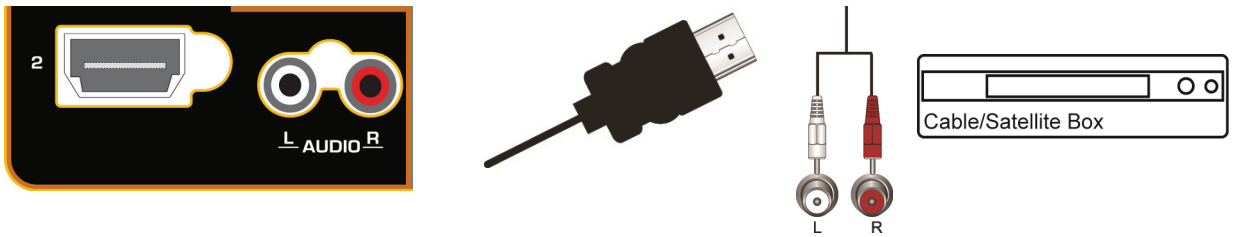
Cable and Satellite Boxes that have a HDMI digital interface should be connected using HDMI for optimal results. To maintain image quality, use a VIZIO certified HDMI cable. This cable is available in 6, 15, and 30 foot lengths. Visit www.VIZIO.com or call **877-MYVIZIO** (877-698-4946) for details.

1. Turn off your HDTV and cable/satellite box.
2. Connect an HDMI cable to the **HDMI** output of your cable/satellite box and the other end to the **HDMI 1** or **2** jack on your HDTV.
3. Turn on the power to your HDTV and your cable/satellite box.
4. Select **HDMI-1, HDMI-2**, or **HDMI SIDE** using the **INPUT** button on the remote control or side of the TV.

Note:

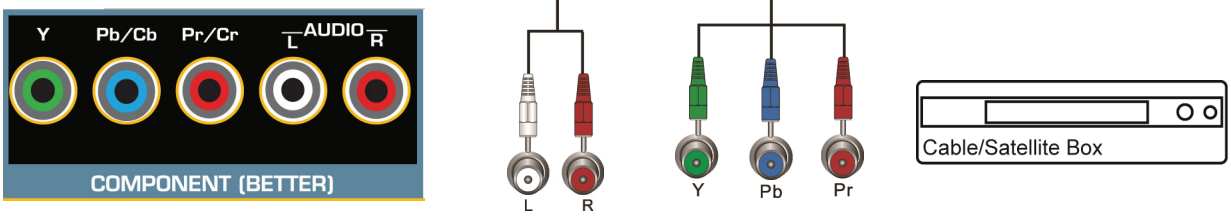
- The HDMI input on your HDTV supports High-bandwidth Digital Content Protection (HDCP). HDCP encrypts the transmission between the video source and the digital display for added security and protection.
- Refer to your cable/satellite Set-Top box user manual for more information about the video output requirements of the product or consult your cable or satellite operator.

HDMI Connections for Cable or Satellite Boxes with DVI



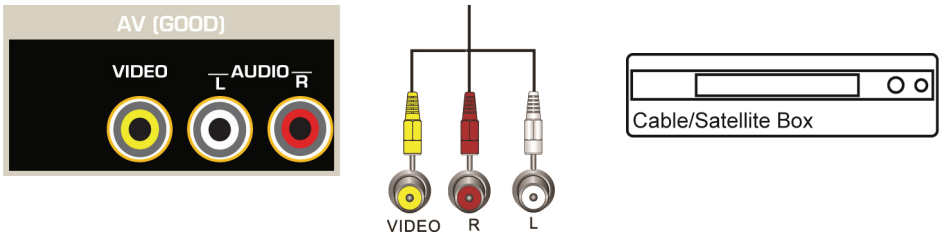
1. Turn off the power to your HDTV and HDTV cable/satellite box.
2. Using a HDMI-DVI cable, connect the DVI end to your cable/satellite box and the HDMI end to the **HDMI 2** jack on your HDTV.
3. Connect the audio cables (white and red) from the DVI audio output jacks on the cable/satellite box to the **HDMI 2 L** and **R AUDIO** jacks on your HDTV.
4. Turn on the power to your HDTV and your cable/satellite box.
5. Select **HDMI-2** using the **INPUT** button on the remote control or side of the TV.

Using Component Video (Better)



1. Turn off your HDTV and cable/satellite box.
2. Connect the component cables (green, blue, and red) from your cable/satellite box to the **COMPONENT** jacks on your HDTV.
3. Connect the audio cables (white and red) from your Set-Top box to the **COMPONENT L** and **R AUDIO** jacks on your HDTV.
4. Turn on your HDTV and cable/satellite box.
5. Select **Comp** using the **INPUT** button on the remote control or side of the TV.

Using Composite Video (Good)



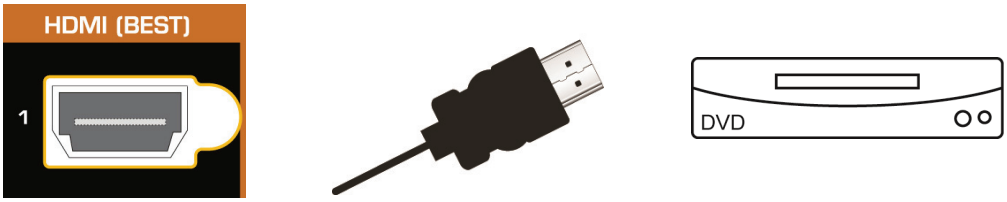
1. Turn off your HDTV and Set-Top box.
2. Connect the video cable (yellow) from your Set-Top box to the **AV** jack (yellow) on your HDTV.
3. Connect the audio cables (white and red) on your Set-Top box to the **AV L** and **R AUDIO** jacks on your HDTV.
4. Turn on your HDTV and Set-Top box.
5. Select **AV** using the **INPUT** button on the remote control or side of the TV.

Using Coaxial (Antenna) (Good)

1. Turn off the power to your HDTV.
2. Connect the coaxial (RF) connector from your antenna or digital cable to the **DTV/TV CABLE/ANTENNA** connector on your HDTV.
3. Turn on the power to your HDTV.
4. Select **TV** using the **INPUT** button on the remote control or side of the TV.
5. Search for new channels. See *Auto Channel Scan* on page 24 for more information on scanning for channels.

Connecting Your DVD Player

Using HDMI (Best)



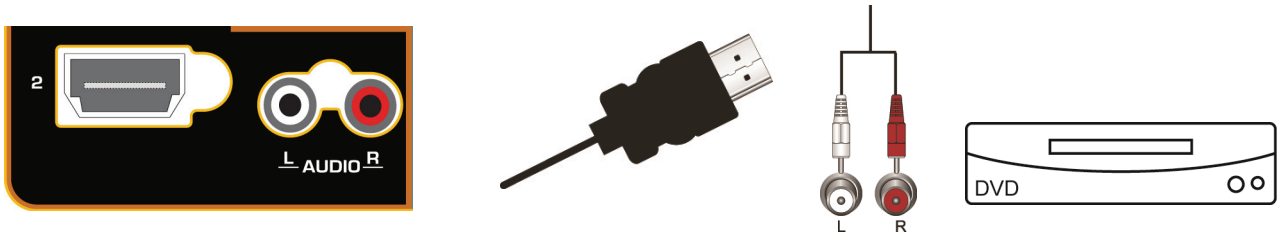
DVD players that have a HDMI digital interface should be connected using HDMI for optimal results. To maintain image quality, use a VIZIO certified HDMI cable. This cable is available in 6, 15, and 30 foot lengths. Visit www.VIZIO.com or call **877-MYVIZIO** (877-698-4946) for details.

1. Turn off your HDTV and DVD player.
2. Connect a HDMI cable to the HDMI output of your DVD player and the other end to the **HDMI 1** or **2** jack on your HDTV.
3. Turn on the power to your HDTV and your DVD player.
4. Select **HDMI-1, HDMI-2**, or **HDMI SIDE** using the **INPUT** button on the remote control or side of the TV.

Note:

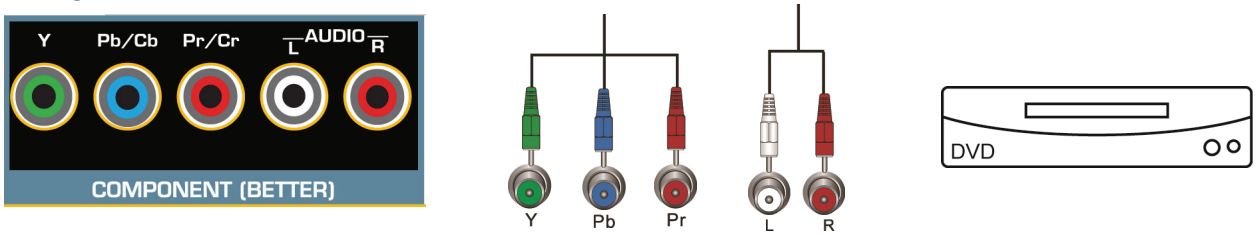
- The HDMI input on your HDTV supports High-bandwidth Digital Content Protection (HDCP). HDCP encrypts the transmission between the video source and the digital display for added security and protection.
- Refer to your DVD player user manual for more information about the video output requirements.

HDMI Connections for DVD Players with DVI



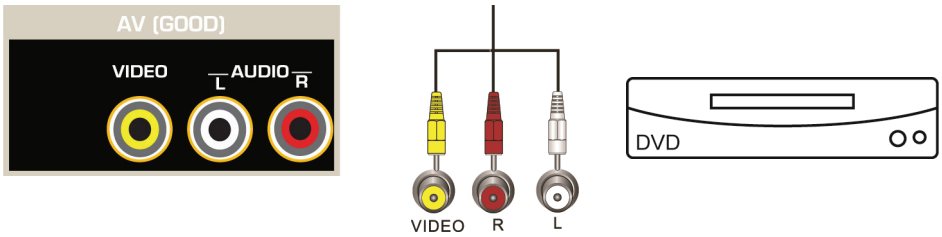
1. Turn off your HDTV and DVD player.
2. Using a HDMI-DVI cable, connect the DVI end to your DVD player and the HDMI end to the **HDMI 2** Jack on your HDTV.
3. Connect the audio cables (white and red) from the DVI audio output jacks on the DVD player to the **HDMI 2 L** and **R AUDIO** jacks on your HDTV.
4. Turn on the power to your HDTV and your DVD player.
5. Select **HDMI-2** using the **INPUT** button on the remote control or side of the TV.

Using Component Video (Better)



1. Turn off the power to your HDTV and DVD player.
2. Connect the component cable (green, blue, and red) from your DVD player to the **COMPONENT** jacks on your HDTV.
3. Connect the audio cables (white and red) from your DVD player to the **COMPONENT L** and **R AUDIO** jacks on your HDTV.
4. Turn on the power to your HDTV and DVD player.
5. Select **COMP** using the **INPUT** button on the remote control or side of the TV.

Using Composite (AV) Video (Good)



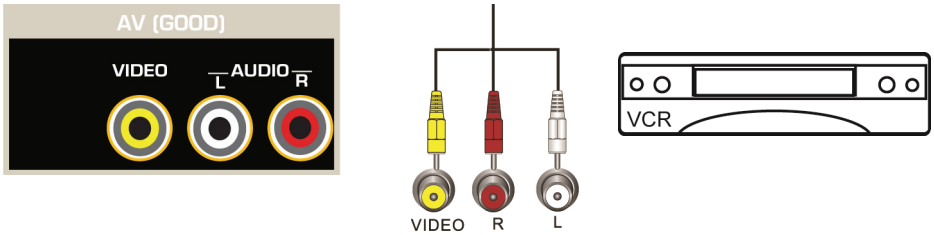
1. Turn off the power to your HDTV and DVD player.
2. Connect the Video cable (yellow) from your DVD player to the **AV** jack on your HDTV.
3. Connect the audio cables (white and red) on your DVD player to the **AV L** and **R AUDIO** jacks on your HDTV.
4. Turn on the power to your HDTV and DVD Player.
5. Select **AV** using the **INPUT** button on the remote control or side of the TV.

Connecting Coaxial (RF)

Using Your Antenna or Digital Cable for Standard or Digital TV

1. Turn off the power to your HDTV.
2. Connect the coaxial (RF) connector from your antenna or cable to the **DTV/TV CABLE/ANTENNA** connector on your HDTV.
3. Turn on the power to your HDTV.
4. Select **TV** using the **INPUT** button on the remote control or side of the TV.
5. Search for new channels. See *Auto Channel Scan* on page 40 for more information on scanning for channels.

Connecting Your VCR or Video Camera

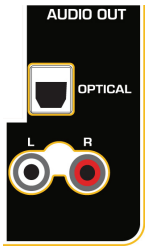


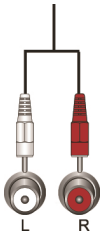
Note: Refer to your VCR or Video Camera user manual for more information about the video output requirements of the product.

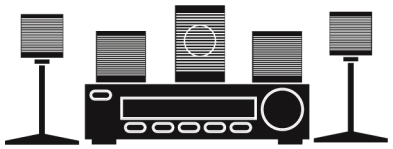
1. Turn off the power to your HDTV and VCR or video camera.
2. Connect the yellow AV cable from your VCR or video camera to the **AV** jack on your HDTV.
3. Connect the audio cables on your VCR or video camera to the corresponding **L** and **R AUDIO** jacks on your HDTV.
4. Turn on the power to your HDTV and VCR or video camera.
5. Select **AV** using the **INPUT** button on the remote control or side of the TV.

Connecting a Home Theater System

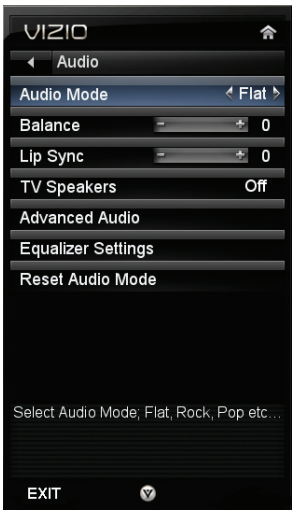
Using RCA







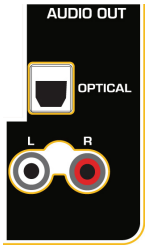
1. Turn off the power to the HDTV and Receiver/Amp.
2. Using an audio cable (white and red connectors), connect the cable to the audio input connectors on the Receiver/Amp and connect the other end to the **AUDIO OUT** audio connectors on the back of the HDTV.
3. Turn on the power to the HDTV and Receiver/Amp.
4. Press the **MENU** button on the remote control to open the On-Screen Display (OSD) menu.
5. Press ▼ on the remote control to highlight the Audio menu, and then press **OK** to select.
6. Press ▼ on the remote control to select **TV SPEAKERS**.
7. Press ► on the remote control to select **OFF** so the sound from the HDTV will be routed through your Receiver/Amp system.

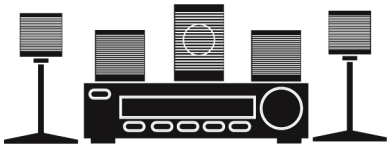


Notes:

- Refer to your Receiver/Amp user manual to select the corresponding audio input.
- The audio output is not amplified and cannot be connected directly to external speakers.

Using Optical (S/PDIF)



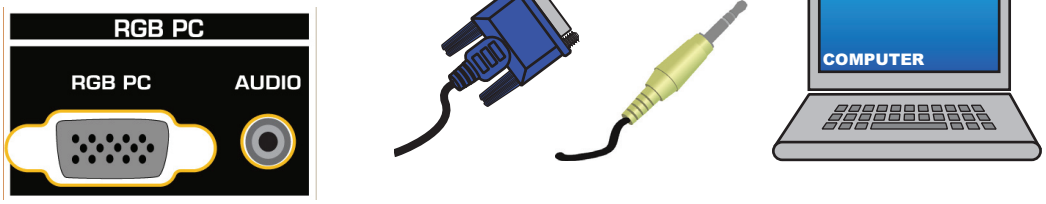


If your sound system has a S/PDIF (optical) digital audio input you can connect it from your sound system to the **OPTICAL** digital audio out on your HDTV. This is active when receiving audio with the programs being viewed no matter what input is being used.

1. Connect one end of the optical cable to optical connectors on the home theater and the other end to the **OPTICAL** jack on your HDTV.
2. Turn on the power to your HDTV and home theater.
3. Change the input on your home theater to optical. See your home theater user manual for more information.

Connecting a Computer

Using RGB (VGA)



1. Set computer to a resolution supported by your HDTV (see *Preset PC Resolutions* on page 70). If your computer supports it, we recommend 1920x1080.
2. Turn off the power to your HDTV and computer.
3. Connect the RGB (VGA) cable from your computer to the **RGB PC** jack on of your HDTV.
4. Connect the 1/8-inch audio cable from your computer to the **RGB PC Audio** jack on your HDTV. This step is optional and only needed if you want to transmit audio from the computer through the TV.
5. Turn on the power to your HDTV and computer.
6. Select **RGB** (VGA) using the **INPUT** button on the remote control or side of the TV.

Note: Refer to your PC computer user manual for more information about the video output requirements.

Using HDMI

1. Turn off your HDTV and computer.
2. Connect a HDMI cable to the HDMI output of your computer and the other end to the **HDMI 3** jack on your HDTV.
3. Connect the audio cables (white and red) from the audio output jacks on the computer to the **HDMI 2 L** and **R AUDIO** jacks on your HDTV.
4. Turn on the power to your HDTV and your computer.
5. Select **HDMI-2** using the **INPUT** button on the remote control or side of the TV.

Chapter 7 Viewing Pictures

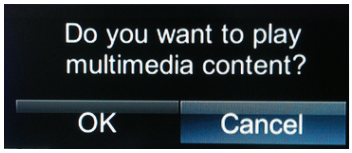
Connect a USB flash drive to the USB port on your HDTV to view pictures.

- USB drives that are USB 2.0 and FAT or FAT32 are supported. The USB Port does not support external hard drives or USB hubs.
- If your USB drive is oversized and does not physically fit in the USB port, use a USB extension cable. Connect one end of the cable to your USB drive and the other end to the USB port.
- Supported file extensions include .jpg and .jpeg.

Note: Even the supported format files listed above may or may not play properly or completely, depending on the USB device, bit rate stream, and other content characteristics, as well as other factors.

Viewing Pictures

1. Insert a USB device with digital content containing photos into the USB port on the side of your HDTV. If a USB device is already connected, press **MENU** on the remote control and select *Media*. A message will appear asking if you want to play multimedia content.
2. Press ◄ or ► to highlight **OK**, and then press **OK** to select it. The *Picture* folder will be displayed.
3. Press **OK** to select it. A menu will be displayed showing the folders and files that are on your USB device.
4. Press ◄ or ► to highlight the folder or file you want to play, and then press **OK** to select it. The file will play. See *Adjusting Photo Settings* on page 31 below to adjust various settings including setting up a slideshow and setting picture duration.
5. When finished, press **MEDIA** once to return to the previous screen or repeatedly to return to the main menu.



Adjusting Photo Settings

When viewing pictures you can adjust various settings, including slideshow, picture duration, etc.

1. Insert a USB device containing pictures and select the folder or files that you want to play.
2. Press **MENU**. The Picture menu will be displayed.
3. Press ▲ or ▼ on the remote control to highlight a Picture menu option, and then press ◄ or ► to adjust the setting.
4. Press **MENU** once to close the menu.

Slideshow Mode

Choose from **Shuffle, Single,** and **Sequence** to set the slideshow mode. Press **OK** to start and stop the slideshow.

- **Single** will display one picture selected from the thumbnails for the interval set in the *Duration* option and return to the thumbnails. If the *Repeat* option is set to **On**, the selected picture will be displayed until you press **EXIT**.
- **Sequence** will show your pictures in the order they are listed on your USB device until you stop the slideshow.
- **Shuffle** will show your pictures in random order until you stop the slideshow.

Repeat

Choose from **On** or **Off** to repeat the slideshow.

Sort By

You can choose to sort the pictures on the USB device by **Photo Date**, **File Date**, or alphabetically (**File A-Z**).

Duration

Set the amount of time the picture will remain on the screen during the slideshow. Choose a time between 5 seconds and 32 seconds.

Slideshow Effect

Choose from **Random, Dissolve, Wipe Right, Wipe Left, Wipe Up, Wipe Down, Box In,** or **Box Out** to set the transition type when changing from one picture to another during a slideshow.

Thumbnail Size

Set the size of the preview pictures (thumbnails) in the menu. Choose from **Small, Medium,** or **Large.**

Info

When set to **On**, information about the picture briefly appears on your HDTV.

Chapter 8 Adjusting Your HDTV Settings

Using the On-screen Display (OSD)

The remote control or the control buttons on the side of the TV can control all the function settings. The *OSD* allows you to adjust contrast, brightness and other settings. The TV will save changes made to the settings, even if the TV is turned off.

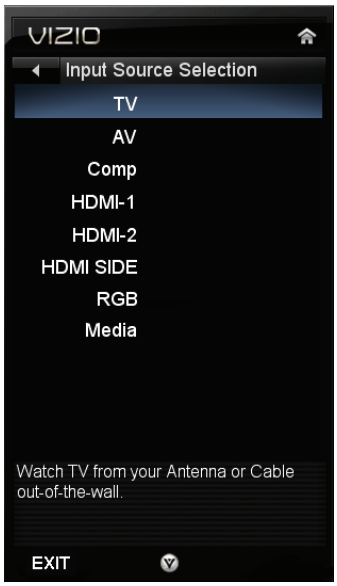
The OSD consists of several menu options. The main menu options may vary depending on your selected input source.

Note: Some of the main menu options may have additional submenus, for example, the TV Rating submenu for Parental Controls.

1. Press **MENU**. The *OSD* opens.
2. Press ◄, ►, ▲, or ▼ on the remote control to select one of the menu options:
   - Input
   - Wide
   - CC
   - Sleep Timer
   - Picture
   - PIP
   - Settings
   - Media
   - Help
3. Press **OK** to select the option or feature you want to adjust.
4. After the menu option is displayed, press ▲ or ▼ on the remote control to select one of the items to adjust.
5. Press **OK** to select it, and then press ◄, ►, ▲, or ▼ to adjust the selection.
6. Press **BACK** once to return to the previous screen. To return to your program once adjustments have been completed, you can do one of the following:
   a. Press the **EXIT** button on the remote control.

Input Menu

Select the Input Source for your HDTV. Choose from *TV, AV, Comp, HDMI-1, HDMI-2, HDMI SIDE, RGB, and Media.*

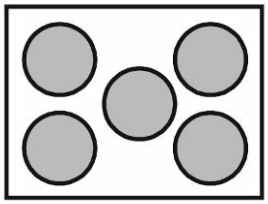


Wide Menu

Select how the picture displays on the screen. As you select an option, you will see the screen adjusting to the different sizes. The options vary depending on the selected input and the TV program:

Normal

The original 4:3 aspect ratio (1.33:1 source) is preserved, so black bars are added to the left and right of the display image. Standard TV broadcasts are displayed with a 4:3 Aspect Ratio. Movies in 4:3 Aspect Ratio may be referred to as pan-and-scan or full frame. These movies were originally filmed in 16:9 (widescreen), and then modified to fit a traditional TV screen (4:3).



Wide

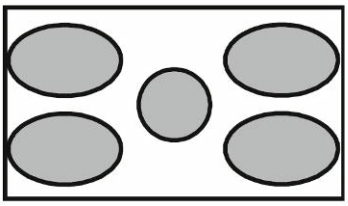
Wide mode allows you to view the entire picture. This is recommended for HDMI and RGB (Computer) viewing so you can see the complete picture without the image overstretching beyond the viewing area. For 720p, 1080i, 1080p only.

Zoom

Zoom mode will "zoom in" to the center of the image, allowing 4:3 images to be viewed in original aspect ratio without stretching the black bars. The top and the bottom of the image are cropped out, though.

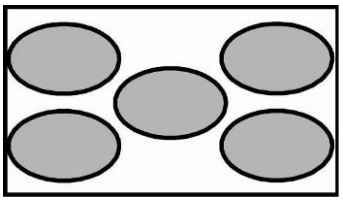
Panoramic

When watching a standard broadcast or full frame movie in this mode, the 4:3 Aspect Ratio (1.33:1 source) display image is stretched horizontally on the left and right sides to fill the TV screen. The center of the image is not stretched.



Stretch

When watching a widescreen program (1.78:1 source) with black bars on the sides, the display image will stretch to fill the TV screen. People will appear wider than they really are. If you are watching a widescreen (1.85:1 or 2.35:1 source) program or movie, there will still be black bars at the top and bottom. This mode is available only when watching a widescreen program.



CC (Closed Caption) Menu

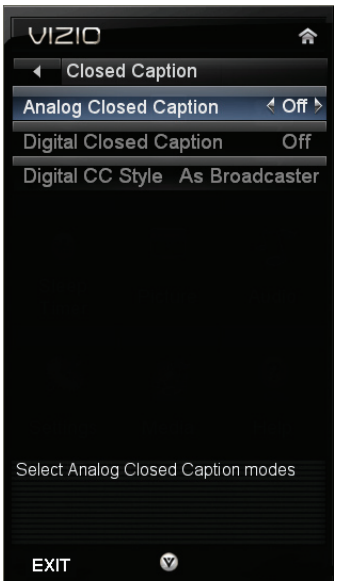
Adjust closed caption options.

Analog Closed Caption

The CC feature is available when watching regular analog TV. Select from **Off, CC1, CC2, CC3,** and **CC4**. Closed Caption for regular TV is usually **CC1** or **CC2**.

Digital Closed Caption

The CC feature is available when watching digital TV. Select from **CC1, CC2, CC3, CC4, or CS1, CS2, CS3, CS4, CS5, CS6,** or **Off.**



Digital CC Style

The Digital CC Style feature is available when watching digital TV.

- **Caption Style:** Select either **As Broadcaster** or **Custom**. If Custom is selected you can customize the way Closed Caption is displayed. The options available are:
- **Text Size:** Make CC text larger or smaller.
- **Color:** Choose a text color for CC display
- **Opacity:** Make text more or less transparent.
- **BG Color:** Choose a background color for CC text.
- **BG Opacity:** Make the background for CC text more or less transparent.
- **Window Color:** Choose a text frame color for CC text.
- **Window Opacity:** Make the text frame for CC text more or less transparent.

Sleep Timer Menu

Select the timer to turn off the TV in **30, 60, 90, 120** or **180** minutes.

Picture Menu

Adjust picture options including brightness, contrast, and advanced picture settings.

Picture Mode

Choose from **Standard, Movie, Game, Vivid, Football, Golf, Basketball,** or **Custom**. Each input (i.e. HDMI, COMP, etc) remembers the custom setting you created. Select **Custom** to manually adjust *Backlight, Brightness, Contrast, Color, Tint, Sharpness*, and to access the *More* menu where further adjustments can be made.

Backlight

Adjust the brightness to affect the overall brilliance of the picture not the Brightness (black level) or Contrast (white level) of the picture.

Brightness

Adjust black levels in the picture. If the brightness is too low you will not be able to see the detail in darker parts of the picture and if the brightness is too high the picture will look washed out.

Note: Brightness is only available when *Picture Mode* is set to **Custom**.

Contrast

Adjust the white levels in the picture. If the contrast is too low the picture will look washed out and if the contrast is too high you will not be able to see any detail in the bright parts of a picture.

Note: Contrast is only available when *Picture Mode* is set to **Custom**.

Color

Adjust the amount of color in the picture.

Note: Color is only available when *Picture Mode* is set to **Custom**.

Tint

Adjust the hue of the picture. The easiest way to set tint is to look at flesh tones and adjust for a realistic appearance. In most cases, the default middle position is correct. If people's faces look too orange try reducing the level of color first.

Note: Tint is only available when *Picture Mode* is set to **Custom**.

Sharpness

Adjust the sharpness of the edges of elements in the picture. It does not produce detail that otherwise does not exist. This adjustment is helpful when viewing Standard Definition sources.

Note: Sharpness is only available when *Picture Mode* is set to **Custom**.

More

Select **More** to adjust advanced options for fine tuning the picture.

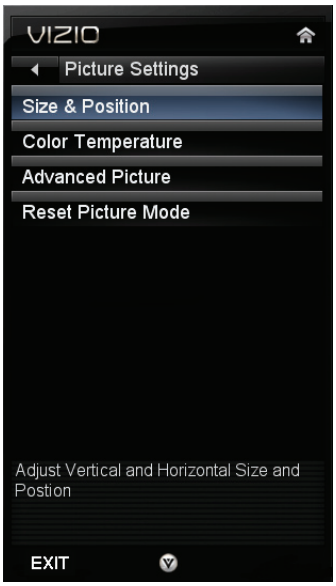
Note: The *More* menu is only available when *Picture Mode* is set to **Custom**.

Size & Position

To select the options in the Size & Position sub-menu, press **OK**. A new menu will be displayed showing the following Size & Position settings:

- **Horiz. Position**
  Adjust the horizontal position of the picture.
- **Vertical Position**
  Adjust the vertical position of the picture.
- **Horizontal Size**
  Adjust the horizontal size of the picture.
- **Vertical Size**
  Adjust the vertical size of the picture.

Note: The Size & Position function is only available in HDMI, Component, or RGB modes.

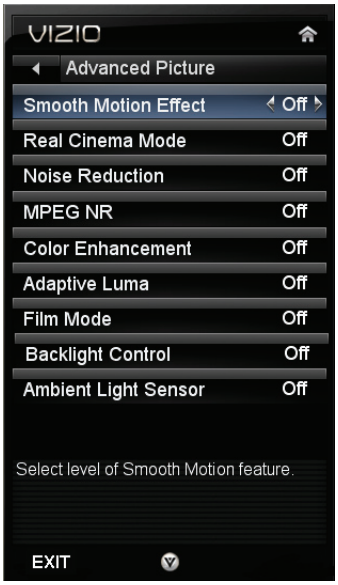


Color Temperature

Color Temperature is the “warmness” or “coolness” of the white areas of the picture. Choose from **Custom**, **Cool**, **Normal**, or **Computer**. **Normal** is the setting for television broadcasting. **Custom** allows you to set a preset calibrated for a white point to suit individual preferences. **Cool** produces a blue-hued image. **Computer** sets the white point at the established setting for a computer display (9300K). Each preset may also be adjusted for a customized setting.

Advanced Picture

To select the options in the Advanced Picture sub-menu, press **OK**. A new menu will be displayed showing the advanced functions available for fine tuning of the picture.



- **Smooth Motion Effect**

  The Smooth Motion™ Effect option activates Motion Estimation/Motion Compensation (ME/MC), which suppresses motion judder, or “stuttering” of the image when the camera pans across a scene, or there is horizontal motion in the scene. Choose from **Off, Low, Middle,** or **High**.

- **Real Cinema Mode**

  The Real Cinema Mode option allows selection of the type of compensation used for the Smooth Motion™ Effect option. Choose from **Off**, **Precision** and **Smooth**.

- **Noise Reduction**

  This feature diminishes picture artifacts caused by the digitizing of image motion content that may be present in the picture. Choose from **Off**, **Low**, **Medium**, or **High**.

- **MPEG NR**

  Reduces white areas between color boundaries. Choose from **Off, Low, Medium** or **Strong**.

- **Color Enhancement**

  This feature increases the picture reproduction performance of the picture by reducing oversaturation of certain colors and improving flesh tones. Choose from **Off**, **Normal**, **Rich Color**, **Grn/Flesh**, and **Grn/Blue**.

- **Adaptive Luma**

  Large areas of brightness in the picture will result in a higher Average Picture Level (APL) and the overall picture will look too light. This feature will lower the APL to counteract this effect. Choose from **Off**, **Low**, **Medium**, **Strong**, or **Extend**.

- **Film Mode**

  Choose from **Off** or **Auto**. When set to **Off** it will stay at 60 fps. When set to **Auto**, the TV will detect the cadence (for example at 24 frames/second for film, or normal video at 60 fps).

- **Backlight Control**

  Set this feature to **OFF**, **DCR**, or **OPC**. **DCR** (Dynamic Contrast Ratio) improves the black level performance and increases contrast ratio. **OPC** (Optimum Power Control) Reduces power consumption while maintaining the same picture brightness.

- **Ambient Light Sensor**

  Choose **Off, Low, Medium,** or **High**. When set to **Low, Medium,** or **High**, your HDTV will automatically adjust to light changes in the room.

Reset Picture Mode

Return all Picture settings to factory default. A screen will come up to confirm your selection or to cancel it. Press ◄ or ► to make the selection, and then press **OK** to accept it.

Note: Only settings under the Picture will be reset.

PIP Menu

Your TV features PIP mode so you can watch two pictures at the same time. One picture is displayed as the full screen (main screen) and the other picture is displayed in a small window (sub screen).

Note: PIP is only available when the *Rating Enable* option in *Parental Controls* is set to **Off**.

PIP Mode

Select from **Off**, **PIP** (Picture-inside-picture) or **POP** (Picture-outside-picture). In **PIP** mode a smaller sub-screen is displayed on top of the main screen. In **POP** mode the main screen and sub-screen are of equal size and are positioned side-by-side.

Source

Select the input source for the sub-screen. The input sources available will vary according to which input is used for the main screen.

"✓" – Indicates which inputs are available for PIP and POP modes.

SUB / MAIN	TV	AV (Composite)	Component	HDMI-1 HDMI-2 HDMI SIDE	RGB (Computer)
TV			✓	✓	✓
AV (Composite)			✓	✓	✓
Component	✓	✓		✓	
HDMI-1	✓	✓	✓		✓
HDMI-2	✓	✓	✓		✓
HDMI Side	✓	✓	✓		✓
RGB (Computer)	✓	✓		✓	

Position

Select where you want the PIP screen positioned over the main screen. Choose from **Top Left**, **Top Right**, **Bottom Left**, and **Bottom Right**.

Size

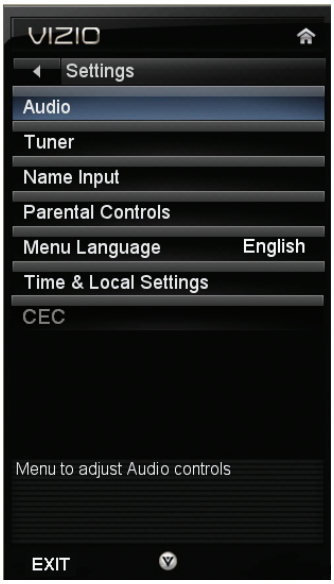
Set the size of the PIP window. Choose from **Small**, **Medium** or **Large**.

Audio

Select which source will play the audio. Choose from the **Main** screen or the **PIP** (sub) screen.

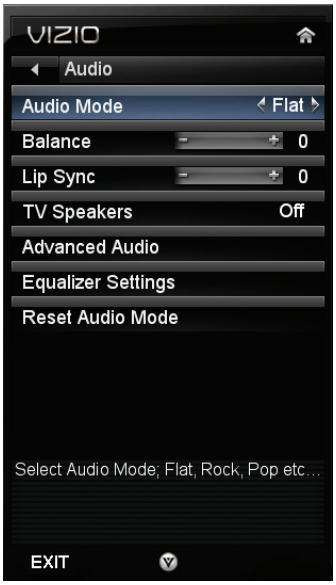
Settings Menu

Adjust various options including audio settings, scanning for channels, parental controls, date and time, and more.



Audio Menu

Adjust audio options including balance, equalizer, and advanced audio settings.



Audio Mode

Choose from Flat, Rock, Pop, Classic or Jazz.

Balance

Adjust the sound to the left or the right.

Lip Sync

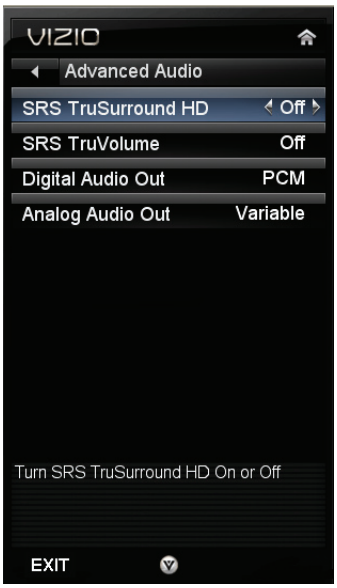
Lip Sync is designed to adjust the audio of the program being viewed so that it matches the movement of the lips of someone talking on the screen.

TV Speakers

Turn the internal speakers On or Off. You may want to turn the internal speakers off when listening to the audio through your Home Theater System.

Advanced Audio

To select the options in the Advanced Audio sub-menu, press **OK**. A new menu will be displayed showing the advanced functions available for fine tuning of the audio.



- **SRS TruSurround HD**

  When watching TV or a movie, TruSurround HD™ creates an immersive surround sound experience from only two speakers and provides rich bass, clear dialog and high frequency detail.

- **SRS TruVolume**

  When the programming switches to a commercial or when changing from channel to channel, volume fluctuations occur. When turned ON, TruVolume™ provides the listener with a comfortable and consistent volume level.

- **Digital Audio Out**

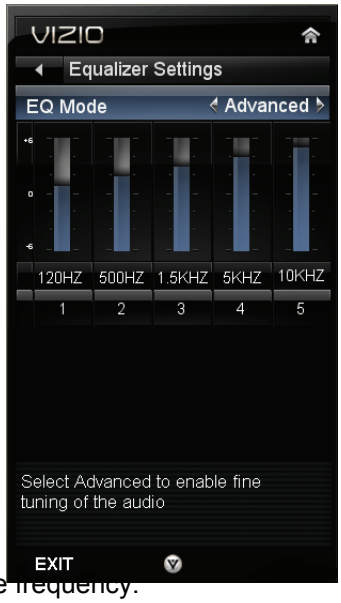
  This option allows selection of the type of processing for the S/PDIF (Optical connector) when used with a Receiver/Amplifier/Home Theater system.Select to choose from OFF, Dolby Digital or PCM.

- **Analog Audio Out**

  This option sets the volume control properties when using the RCA (white and red) connectors as audio line out to connect a Receiver/Amplifier/Home Theater system. Choose from Fixed or Variable. When set to Variable, volume from the external speakers will change according to the volume setting on the TV. If it is set to Fixed, the volume can only be changed by the settings on the external stereo system.

Equalizer Settings

To select the options in the Equalizer Settings sub-menu, press **OK**. A new menu will be displayed showing the available equalizer functions. Press ◄ or ► to select *Basic* or *Advanced*.



- **EQ Mode (Basic)**

  Adjust Bass and Treble.

- **EQ Mode (Advanced)**

  Adjust volumes of different frequencies.

  Starting from lowest to the highest, they are 120 Hz, 500Hz, 1.5 kHz, 5 kHz and 10 kHz.

  1. Press ◄ or ► to select the frequency to be adjusted.
  2. Use ▲ or ▼ to adjust the selected frequency to your preference. Values above 0 will boost the frequency and values below 0 will attenuate the frequency.

  Note: The Equalizer adjustment will only be available when SRS TSHD is set to Off.

Reset Audio Mode

Return all Audio settings to factory default. A screen will come up to confirm your selection or to cancel it. Press ◄ or ► to make the selection, and then press OK to accept it.

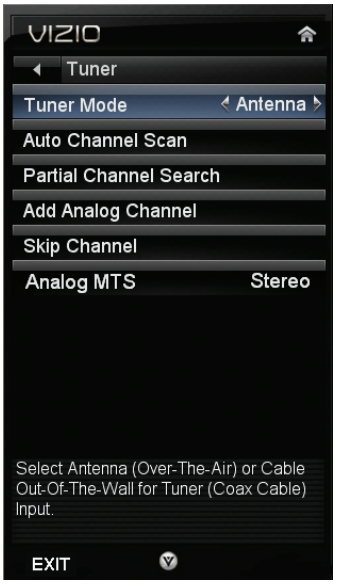
Note: Only settings under the Audio menu will be reset.

Tuner

Note: The tuner option can only be selected when your HDTV is in TV input mode.

Tuner Mode

Select Cable or Antenna depending upon which you have attached to the DTV / TV Input.



Auto Channel Scan

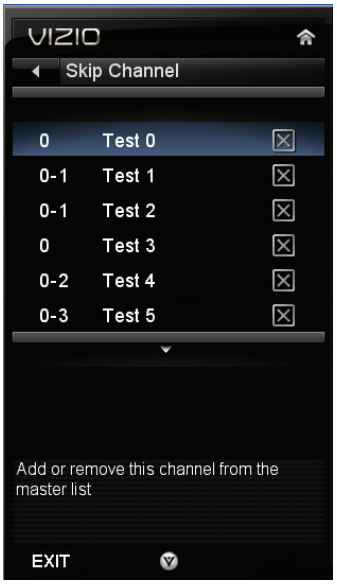
Automatically search for TV channels that are available in your area. Be sure to first select the correct tuner mode above. The TV will search for analog and digital channels. When the search is done, press **OK** to begin watching your programs.

Partial Channel Search

If you believe channels are missed from the auto search, you can do a partial channel search to look for channel in a certain channel range again. Select to scan for Analog, Digital, or both Analog/Digital channels, then press ▼ to highlight the “From” and “To” selection. Press ► to select the range of channel numbers you want to start searching in. Press **OK** to start channel search.

Add Analog Channel

If your are in fringe/marginal reception areas or you want to receive local broadcasts where *Auto Channel Search* may not pick up the signals you can manually add channels. Press **OK** and a new menu will open. Enter the channel number, press ▼ to select *Add Channel*, and then press **OK** to add the channel.



Skip Channel

After the TV has stored all of the available digital channels in memory you will find that some channels are too weak to watch comfortably or they may be channels you do not want to see. Press **OK** to select the channel to be skipped when using the CH▲ or CH▼ button. An X will appear in channels you have selected to skip. You will still be able to select this channel using the number buttons on the remote control.

Analog MTS

This feature allows you to select the different languages the broadcaster is transmitting the audio with the program you are watching. This signal is usually Spanish. Choose from **Mono, Stereo,** or **SAP**.

Name Input

This feature makes it easier for you to recognize the devices you have connected to your HDTV when you press **INPUT**. For example, if you have a Blu-Ray DVD player connected to the HDMI-1 input, you can have the input label read *HDMI-1 BluRay* instead of just *HDMI-1*. You can select from 10 preset labels.

To use one of the 10 preset labels:

1. Select *Input Source,* and then press **OK** to show the list of inputs.
2. Press ▼ to select the input label you want to change, and then press **OK.**
3. Press ▼ to select *Input Labels*, and then press **OK** to show the list of 10 preset labels.
4. Press ▼ to select the new input label name, and then press **OK.**

.

Parental Controls

If you want to restrict certain channel and program viewing, you can do this by turning on the Parental Control. Selected programs, movies and channels can then be made available only after an authorized password has been entered and accepted by the TV.

Note: The Parental Controls are divided into LOCK and UNLOCK menus. To activate or lock parental controls, use the LOCK menu. To deactivate or unlock parental controls, use the UNLOCK menu.

Navigating Lock and Unlock Menus

To access or navigate the LOCK menu, you must use the **Channel Up/Down** and **INPUT** buttons on the side of the TV. **The remote control buttons do not control the LOCK menu.**

To access or navigate the UNLOCK menu, you can use the **Arrow** and **OK** buttons on the remote. Enter your PIN when prompted.

Lock and Unlock Menu Functions

Rating Enable

Select **ON** or **OFF**. If set to **OFF**, you will not be able to set the US TV, US Movie, Canadian English, or Canadian French Ratings.

Channel Locks

Block individual channels from being displayed.

USA-TV

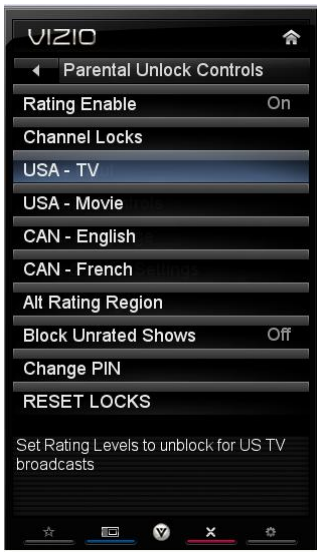
Note: When Rating Enable is **OFF**, the USA-TV Rating adjustments are not available.

TV-Y – All children
TV-Y7 – Older children
TV-G – General audience
TV-PG – Guidance suggested
TV-14 – Strongly cautioned
TV-MA – Mature audience

You can also customize the TV ratings for the following content:

A – All sub-ratings
FV – Fantasy violence
D – Sexual dialog
L – Adult language
S – Sexual situations
V – Violence

USA-Movie



Note: When Rating Enable is **OFF**, USA-Movie Rating adjustments are not available.

G – General audience
PG – Parental guidance suggested
PG-13 – Recommended for children 13 years of age or older
R – Mature audience
NC-17 – No one under 17 years of age
X – No one under 17 years of age

CAN-English

Note: When Rating Enable is **OFF**, Canadian English Rating adjustments are not available.

C – Children
C8+ – Children 8 years or older
G – General Programming, suitable for all audiences
PG – Parental guidance
14+ – Viewers 14 years or older
18+ – Adult programming

CAN-French

Note: When Rating Enable is **OFF**, Canadian French Rating adjustments are not available.

G – General audience
8 ans+ – General – not recommended for young children
13 ans+ – Not suitable for children under 13 years of age
16 ans+ – Not suitable for under 16 years of age
18 ans+ – Adults only

Alt Rating Region

This setting is not used. It is reserved for future rating systems.

Block Unrated TV

Block programming that does not have a rating.

Change PIN (UNLOCK Menu Only)

Enter a new, 4-digit password using the number buttons on the remote control. Enter it a second time to confirm you entered it correctly.

Note: Make sure you write down and store the new password in a secure place. The *Reset Locks* feature does NOT reset the password.

RESET LOCKS (UNLOCK Menu Only)

Return all Parental Control lock settings to factory default. A screen will come up to confirm your selection or to cancel it. Press ◄ or ► to make the selection, and then press **OK** to accept it.

Menu Language

Select to change the language of the menu. The default is **English**. You can also select **French** or **Spanish**.

Time & Local Settings

Time Zone

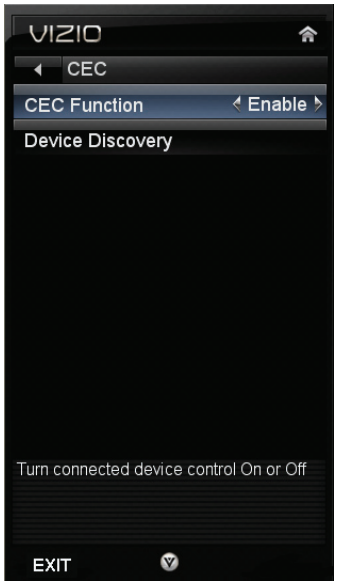
Setting the correct Time Zone for your area will ensure that the correct time is shown after pressing the **GUIDE** button on the remote control.

Daylight Saving

Setting the daylight saving time for your area will ensure that the correct time is shown after pressing the **GUIDE** button on the remote control.

CEC

Consumer Electronics Control allows you to control other devices using your HDTV remote control when those devices are connected via HDMI. For example, if a CEC-supported Blu-ray DVD player is connected to your HDTV through HDMI-2 and that player is powered on, your HDTV will automatically change to the HDMI-2 input. Similarly, if your HDTV is powered on first and your change the input to HDMI-2, your Blu-ray player will automatically power on.



Also, you can control your CEC-supported device using the transport keys on your HDTV remote control (e.g. Play, Stop, Prev, etc.). When you press one of the buttons on your HDTV, the action will occur on your device.

Contact your devices' user manual or manufacturer to check whether your device supports CEC.

CEC Function

Turn CEC On or Off. When set to Off, your HDTV will not send or receive any CEC commands.

Device Discovery

Register device with TV. Before CEC will work, perform a Device Discovery to see if there are any CEC supported devices connected to your HDTV.

Media Menu

When viewing pictures you can adjust various settings, including slideshow, picture duration, etc.

1. Insert a USB device containing pictures and select the folder or files that you want to play.
2. Press **MENU**. The Picture menu will be displayed.
3. Press ▲ or ▼ on the remote control to highlight a Picture menu option, and then press ◄ or ► to adjust the setting.
4. Press **MENU** once to close the menu.

Slideshow Mode

Choose from **Shuffle, Single,** and **Sequence** to set the slideshow mode. Press **OK** to begin the slideshow. Press **EXIT** to stop the slideshow.

- **Single** will display one picture selected from the thumbnails for the interval set in the *Duration* option and return to the thumbnails. If the *Repeat* option is set to **On**, the selected picture will be displayed until you press **EXIT**.
- **Sequence** will show your pictures in the order they are listed on your USB device until you stop the slideshow.
- **Shuffle** will show your pictures in random order until you stop the slideshow.

Repeat

Choose from **On** or **Off** to repeat the slideshow.

Sort By

You can choose to sort the pictures on the USB device by **Photo Date**, **File Date**, or alphabetically (**File A-Z**).

Duration

Set the amount of time the picture will remain on the screen during the slideshow. Choose a time between 5 seconds and 32 seconds.

Slideshow Effect

Choose from **Random, Dissolve, Wipe Right, Wipe Left, Wipe Up, Wipe Down, Box In,** or **Box Out** to set the transition type when changing from one picture to another during a slideshow.

Thumbnail Size

Set the size of the preview pictures (thumbnails) in the menu. Choose from **Small, Medium,** or **Large.**

Info

When set to **On**, information about the picture briefly appears on your HDTV.

Help Menu

System Info

Display the technical information including model name, version and revision of firmware, source type, and resolution.

Reset TV Settings

Return all Picture and Audio settings to factory default. A screen will come up to confirm your selection or to cancel it. Press Left or Right Navigation buttons to make the selection, and then press **OK** to accept it.

Note: This does **NOT** reset the Parental Control Password.

Clear Memory (Factory Default)

Use this function to reset the TV to the default factory settings. The screen will display a message to confirm that you want to reset the values to factory settings. Press ◄ or ► to make the selection, and then press **OK** to accept it.

Note: This does **NOT** reset the Parental Control Password.

Start Setup Wizard

Use this function to return to the Initial Setup menu. Use this function if you want to have a guided setup when you move your TV.

Note: Previously scanned channels will be removed.

Chapter 9 Programming the VIZIO Universal Remote Control

Program your E470VL and E551VL remote control to work with other devices.

Using a Cable or Satellite Box Remote

Your VIZIO remote uses codes 000, 047, 050, 067, 329, 331 and 339 to work your HDTV. To use a Cable or Satellite remote to work the HDTV, refer to your Cable or Satellite remote user guide for more information on how to program the remote.

If your Cable or Satellite remote uses a 5-digit code (like most Direct TV units), first try 11758 and then, if that does not work, 10178. If your Cable or Satellite remote uses a 4-digit code, try 1758 and then 0178 as an alternative. If your Cable or Satellite remote uses a 3-digit code (Echostar or Dish Network for example), use code 627.

Note: Some buttons may not function as expected on your Cable or Satellite remote. Typically power, volume and mute will work.

Programming other devices

Your remote control is programmable and supports up to three different devices. Listed below are the steps for programming your DVD player, Home Theater System, and a Cable or Satellite box. After you find your codes, write them in the table provided.

Programming your Blu-Ray or DVD Player

1. Turn on the DVD player.
2. Press and release the **DVD** button on your VIZIO universal remote control.
3. Press and hold the **SET** button until the LED flashes twice.
4. Find the programming code for your DVD player in the code list below and enter it using the number buttons. If the code is accepted, the LED flashes twice after the last digit is entered. If the LED does not flash twice, repeat Steps 2 through 4 with the next code listed.
5. Point the remote control at the DVD player and press **POWER**. The DVD player will turn off. If the DVD player does not turn off, repeat Steps 2 through 4 with the next code listed for the component and manufacturer.

Notes:

- If the codes do not work or your brand is not listed, see *Searching for Device Codes* on page 48.
- Sometimes a code listed will only include limited functions. Try other codes that may include more functionality.

Programming your Home Theater System

1. Turn on the Home Theater System.
2. Press and release the **AUDIO** button on your VIZIO universal remote control.
3. Press and hold the **SET** button until the LED flashes twice.
4. Find the programming code for your Home Theater System and enter it using the number buttons. If the code is accepted, the LED flashes twice after the last digit is entered. If the LED does not flash twice, repeat Steps 2 through 4 with the next code listed.
5. Point the remote control at the Home Theater System and press **POWER**. The Home Theater System will turn off. If the Home Theater System does not turn off, repeat Steps 2 through 4 with the next code listed for the component and manufacturer.

Notes:

- If the codes do not work or your brand is not listed, see *Searching for Device Codes* on page 48.
- Sometimes a code listed will only include limited functions. Try other codes that may include more functionality.

Programming your Cable or Satellite Set-Top Box

1. Turn on the Cable or Satellite Set-Top Box.
2. Press and release the **CABLE** button on your VIZIO universal remote control.
3. Press and hold the **SET** button until the LED flashes twice.
4. Find the programming code for your Cable or Satellite Set-Top Box and enter it using the number buttons. If the code is accepted, the LED flashes twice after the last digit is entered. If the LED does not flash twice, repeat Steps 2 through 4 with the next code listed.
5. Point the remote control at the Cable or Satellite Set-Top Box and press **POWER**. The Cable or Satellite Set-Top Box will turn off. If the Cable or Satellite Set-Top Box does not turn off, repeat Steps 2 through 4 with the next code listed for the component and manufacturer.

My Codes	
DVD Player	
Home Theater	
Cable Box	
Satellite Box	
VCR	
Other	
Other	
Other	

Notes:

- If the codes do not work or your brand is not listed, see *Searching for Device Codes* on page 48
- Sometimes a code listed will only include limited functions. Try other codes that may include more functionality.

Searching for Device Codes

If you cannot find the manufacturer in the list or the program code does not work, you can use the remote control to search for the correct device code.

1. Turn on the device.
2. Press the matching device button on your VIZIO universal remote control.
3. Press and hold **SET** until the LED flashes twice.
4. Press **9 9 1**. The LED flashes twice.
5. Point the remote control at the device and then press and hold **POWER** until the device turns off.

Reset Remote Control to Factory Settings

1. Press and hold **SET** until the LED flashes twice.
2. Press **9 1 9 1 9**. The LED flashes twice.

Remote Control Codes

Television Codes

(Including TV/DVD, TV/VCR, and TV/DVD/VCR)

3M 1655

Admiral 0093, 0463

Advent 0761, 0783, 0815, 0817, 0842

Aiko 0092

Akai 0812, 1675, 0702, 0030, 0672, 1207, 1935, 2232, 0143, 0695, 2439

Albatron 0700, 0843

America Action 0180, 0278

Anam 0180

AOC 0030, 1365, 1589, 1590, 2014, 2087, 2402

Aomni 1623

Apex Digital 0748, 0879, 0765, 0767, 0890, 1217, 2397

Astar 1531, 1548, 1738

Asus 2175

Audiovox 0451, 0180, 0092, 0623, 0802, 0846, 0875, 1284, 1937, 1951, 1952, 0278, 1071, 1121, 1122

AUO 1591

Aventura 0171

Axion 1937, 1071

Bell & Howell 0154

BenQ 1032, 1715, 1853

Boxlight 0893

Bradford 0180

Brandt Plus 1851

Brillian 1007

Broksonic 0236, 0463, 1929, 1935, 1938, 0002, 0479, 1479, 0695, 0868

byd:sign 1309

Candle 0030

Canon 1396

Carnivale 0030

Carver 0054

Celebrity 0000

Celera 0765

Changhong 0765

Chimei 1837, 1852, 2072

Chun Yun 0706, 1687, 1756, 1834, 2230

Citizen 0060, 0030, 0092, 1669, 1671, 1672, 1935, 0695

Clarion 0180

Coby 1538, 1634, 2017, 2306, 2315, 2338, 2340, 2343, 2344, 2345, 2347, 2348, 2350, 2495, 2535, 2536, 2537, 2538, 2540

Colt 0072

Commercial Solutions 1447, 0047

Contec 0180

Craig 0180

Crosley 0000, 0054

Crown 0180

Curtis 2352, 2466, 2660

Curtis Mathes 0047, 0054, 0154, 0451, 0093, 0060, 0702, 0030, 0145, 0166, 1661, 1147, 1347

CXC 0180

Daewoo 0154, 0451, 0092, 1661, 0623, 0661, 0672

Dell 1264, 1080, 1178, 1403, 1863

Delta 1369

Denon 0145

Diamond Vision 1996, 1609

Digisonic 1826

Digital Lifestyles 1765, 1822

Digital Projection Inc. 1750

DirecTV 1501

Disney 2152, 2356

Dream Vision 1297

Dumont 0017

Durabrand 0463, 0180, 0178, 0171, 1034

Dynex 1463, 1780, 1785, 1810, 2049, 2184, 2255, 2388

Electroband 0000

Electrograph 1755, 1623

Electrohome 0463, 1670, 1672, 1607

Element 1687, 2183

Emerson 1864, 0154, 0451, 0236, 0463, 0180, 0178, 0171, 1661, 0623, 1394, 1913, 1929, 1944, 1963, 0002, 0479, 0593, 1479, 0675, 1268, 2212, 0821

Emprex 1422, 1546, 1765

Envision 0030, 0813, 1365, 1589, 2014, 2087

Epson 0833, 0840, 1122

ESA 0812, 0171, 1944, 1963, 1268, 0821

Esonic 2221, 2229, 2234

Fisher 0154

Frigidaire 1597, 1826, 2231

Fujimaru 1687

Fujitsu 0809, 0683, 0853

Funai 0000, 0180, 0171, 1271, 1904, 1963, 1268

Futuretech 0180

Gateway 1755, 1756

GE 1447, 0047, 0051, 0451, 0178, 1347, 1922, 2359, 0240, 1060

GFM 0171, 1963, 2167, 1268

Gibralter 0017, 0030

Gibson 1597, 1826, 1834, 2305

Go Video 0886, 1823, 1831

Go Vision 1071

GoldStar 0178, 0030

Goodmans 0360, 2274

Grundig 0683

Grunpy 0180

Haier 1034, 1748, 1749, 1753, 2309, 2099, 2500

Hallmark 0178

Hanns.G 1783

Hannspree 1348, 1351, 1745, 1783, 1826

Harley Davidson 0000, 1904

Harman/Kardon 0054

Harsper 1206

Harvard 0180

Havermy 0093

Helios 0865

Hello Kitty 0451

Heran 1826, 1852, 2305, 2356

Herosonic 1826

Hewlett Packard 1642, 1494, 1502

HiPlus 1420, 1435, 2113, 2224, 2225, 2226, 2230, 2235

Hisense 0748, 1314, 1660, 2098, 2183, 2355, 2419

Hitachi 1643, 1145, 0145, 1445, 1904, 0000

HP 1642, 1494, 1502

Humax 1501

Hyundai 0849

I-Inc 1746

iLo 1286, 1603, 1684, 1990, 1472

Infinity 0054

InFocus 2024, 2199

Initial 1603, 1990, 1472

Insignia 1423, 1564, 0171, 1204, 1517, 1641, 1660, 1710, 1780, 1892, 1963, 2002, 2049, 2088, 2417, 1013, 1268, 2255, 2620

Inteq 0017

iRIS 2189

JBL 0054

JCB 0000

Jensen 0761, 0815, 0817, 1299

JVC 0463, 0053, 0650, 0731, 1253, 1601, 1774, 1923, 2271, 1067, 2472

KDS 1498, 1687

KEC 0180

Kenwood 0030

KLH 0765, 0767

Kolin 1610, 1755, 0150, 1240, 1837

Konka 0748, 1831

KTV 0180, 0030

LG 1423, 0017, 1265, 0178, 0700, 0856, 1178, 1768, 1934, 1993, 2358, 2424, 0480, 1037, 2485

Lloyd's 1904, 0000

Loewe 0136

LXI 0047, 0054, 0154, 0156, 0178

MAG 1498, 1687

Magnasonic 1913, 0593

Magnavox 1454, 1866, 0054, 0051, 0030, 0706, 0802, 1012, 1198, 1254, 1365, 1525, 1904, 1913, 1931, 1944, 1963, 1990, 2372, 0000, 0593, 1781, 1268, 1472, 2229, 2632, 0821

Magnin 0240

Marantz 1454, 0054, 0030, 0704, 0855, 1154, 1398, 2445, 2447

Matsushita 0250, 0650

Maxent 1755, 1714, 1757

Megapower 0700

Megatron 0178, 0145

Memorex 0154, 0463, 0150, 0178, 1670, 1892, 1924, 0162, 1037, 1162, 1262, 1607

MGA 0150, 0178, 0030, 0240

Midland 0047, 0017, 0051

Mintek 1603, 1990, 1472

Mitsubishi 1250, 0093, 0150, 0178, 0836, 0868, 1522, 2010

Monivision 0700, 0843

Motorola 0093

MTC 0060, 0030

Multitech 0180

NAD 0156, 0178, 0866, 1156

NEC 0030, 0497, 0704, 0882, 1398, 1546, 1704, 1797, 1852, 2026, 2144

NetTV 1755

NewSonic 1826

Nexus Electronics 2183

Nikko 0178, 0030, 0092

Niko 1581, 1618

Norcent 0748, 0824, 1365, 1589, 1590, 1591, 2110

Norwood Micro 1286, 1303

NTC 0092

NuVision 1657, 2158

Olevia 1610, 1144, 1240, 1331

Onwa 0180

Optimus 0250, 0154, 0166, 0650, 1913, 1924, 0162, 0593, 1162, 1262

Optoma 0887, 1348, 1622, 2161

Optonica 0093

Orion 0236, 0463, 1463, 1929, 0002, 0479, 1479

Panasonic 1480, 0250, 1457, 0051, 0650, 1271, 1291, 1410, 1924, 1941, 1946, 1947, 0162, 1162, 1262, 1490, 1362, 1462

PARK 2104, 2194, 2202

Penney 0047, 0156, 0051, 0060, 0178, 0030, 1347, 0240

Petters 1523

Philco 0054, 0030, 0171, 1271, 1394, 1963

Philips 1454, 1866, 0054, 0690, 1154, 1744, 1850, 1867, 1961, 2227, 2372, 2374, 1260

Pilot 0030

Pioneer 1457, 0166, 0679, 0866, 1260, 1398

Polaroid 1523, 0765, 2425, 2121, 2120, 2119, 2063, 2002, 1992, 1769, 1767, 1766, 1687, 1538, 1498, 1314, 1286, 1276, 0865, 1013, 2110, 2140, 1482

Polyvision 0889, 1144

Portland 0451, 0092, 1661

Prima 0761, 0783, 0815, 0817, 1785

Princeton 0700

Prism 0051

Projectiondesign 1750

Proscan 1447, 0047, 0030, 1347, 1922, 2147, 2256, 2450

Proton 0178, 1546, 1834, 1874

Proview 1498, 1687

Proxima 1896

Pulsar 0017

Puneet 1546

Quasar 0250, 0051, 0650, 1924, 0162, 1162

Radio Shack 0047, 0154, 0180, 0178, 0030, 1904, 0000, 1037

RCA 1547, 1447, 0047, 0051, 0093, 0090, 0679, 1047, 1147, 1247, 1347, 1781, 1922, 1953, 2002, 2187, 2247, 2434, 0240, 1060, 1013, 2392, 1132

Realistic 0154, 0180, 0178, 0030

Relon 1826

RevolutionHD 1623

Runco 0017, 0030, 0497, 0603, 1398, 1629, 2444

Sampo 1755, 0030, 1597, 1618, 2238

Samsung 0812, 0060, 0702, 0178, 0030, 0587, 0650, 0766, 0814, 1060, 1618, 1632, 1959, 2051, 1014

Sansui 0463, 0171, 1409, 1670, 1892, 1904, 1929, 1935, 0000, 0479, 1479, 0695, 1607

Sanyo 0054, 0154, 0088, 0799, 0842, 0893, 1142, 2115, 2236, 2237, 2238, 2448, 2452, 0240

Sceptre 0878, 1217, 1360, 1599

Scotch 0178

Scott 0236, 0180, 0178, 1711

Sears 0047, 0054, 0154, 0156, 0178, 0171, 1007, 1904, 0000

Seleco 1297, 1351

Sharp 0818, 0093, 0491, 0688, 0851, 1602, 2360, 2561, 0630

Sheng Chia 0093

Sherwood 1399

SIM2 Multimedia 1297

Sole 1623, 2075, 2076

Sony 0810, 0000, 0834, 1685, 1904, 1925, 2054, 1232

Soundesign 0180, 0178

Sova 1952, 1122

SOYO 1520, 1546, 1746, 1826, 1828, 1829, 1830, 1831, 1832, 1834

Spectroniq 1498, 1687

Squareview 0171

SSS 0180

Starlite 0180

Studio Experience 0843

SunBrite 1420, 1435, 2337

SuperScan 0093, 0864, 1944, 0821

Supreme 0000

SVA 0748, 0587, 0865, 0870, 0871, 0872, 1963

Sylvania 1864, 0054, 0030, 0171, 0587, 1271, 1314, 1394, 1886, 1913, 1931, 1944, 1963, 1781, 0675, 1268, 2194, 2212, 0821

Symphonic 0180, 0171, 1904, 1913, 1944, 0000, 0593, 0821

Synco 1755, 1826

Syntax 1610, 1144, 1240, 1331

Tandy 0093

Tatung 1156, 1254, 1286, 1687, 1719, 1756, 1839, 1857

Technics 0250, 0051

Techview 0847, 2004

Techwood 0051

Teco 0053, 0092, 1687, 1834, 1838, 2114

Teknika 0054, 0180, 0150, 0060, 0092

Telefunken 0702

Thomas 1904, 0000

TMK 0178

TNCi 0017

Toshiba 1524, 0154, 0156, 1256, 1265, 0060, 2233, 2006, 1945, 1936, 1935, 1704, 1656, 1635, 1369, 1356, 1156, 0845, 0832, 0650, 1145, 0695, 1606, 2165, 1045

Trutech 1723, 2066, 2264

TVS 0463

US Logic 1286, 1303

UTI Technology 2244

Vector Research 0030

Venturer 1865, 2195

VEOS 1007

Victor 0053

Vidikron 0054, 1398, 1629

Vidtech 0178

Viore 1207, 1684, 1811, 2104, 2352, 2154, 2300, 2580

Vision 1826, 2305

Vistron 2142

Vito 1852, 2365, 2375, 2376, 2377, 2378, 2379, 2380, 2381

Vizio 1758, 0864, 0885, 1756, 2116

Wards 0054, 0178, 0030, 0866, 1156

Waycon 0156

Westinghouse 1712, 1755, 0451, 0885, 0889, 0890, 1282, 1300, 1577, 1597, 1826, 1834, 2293, 2305, 2513

White Westinghouse 0463, 1661, 0623

Wyse 1365

Yamaha 0030, 0769, 0833, 0839

Zenith 0000, 1423, 0047, 0017, 0463, 1265, 0178, 0030, 1145, 0145, 0092, 1661, 1904, 1929, 0479, 1479

Zinwell 2116, 2281

Cable Box Codes

(Including Cable / PVR Boxes)

Amino 1602, 1822

Bright House 1376, 1877

Cable One 1376, 1877

Cablevision 1376, 1877, 1006

Charter 1376, 1877, 2187

Cisco 1877, 0877, 1982

CNS 2350

Comcast 1376, 1877, 1982, 2576

Cox 1376, 1877

Digeo 1187, 2187

Director 0476

General Instrument 0476

Homecast 2301

i3 Micro 1602

Insight 1376, 1877

Jerrold 0476

Knology 1877

Mediacom 1376, 1877

Motorola 1376, 0476, 1187, 1982

Myrio 1602, 1822

Pace 1376, 1877, 1982

Panasonic 1982

Pioneer 1877, 0877

Prime 2340

Rogers 1877

Scientific Atlanta 1877, 0877

Sejin 1602

Shaw 1376

Sony 1006

Suddenlink 1376, 1877

Thomson 1982

Time Warner 1376, 1877, 2187

Tivo 2576

WideOpenWest 1877

Converters

(Including Digital-to-Analog and HDTV)

Access HD 2185

Airlink 101 2491

Alpha Digital 2185

AMTC 2185

Apex Digital 2478

Artec 2490

CASTi 2305

Channel Master 2365

Coby 2667

Coship 2487

Daewoo 2338

Daytek 2305

Digital Stream 2303

Dish Network 0775, 2470

Echostar 2470

GE 2360, 2450

Goodmind 2450

Gridlink 2348

Insignia 1415

Lasonic 2348

Magnavox 1563

Memorex 2486

MicroGEM 2489

Motorola 1982

Pace 1982

Philco 1563

RCA 2325, 2454

Samsung 2592

Sansonic 2348

Sunkey 2695

Sylvania 1563

Thomson 1982

Tivax 2185

Ventura 2454

Venturer 2454

Winegard 2454

Zenith 1415

Zentech 2491

Zinwell 2488

Decoders

(Including Digital-to-Analog and HDTV)

DirecTV 0392

Dish Network 0775

Epson 1563

LG 1414, 1415

Panasonic 1120, 1190, 1490

Samsung 1190, 1276, 1490

Sylvania 1563

Sony 1006

Tivo 0739

Zenith 1856

IPTV

Motorola 1376, 0476

ADB 2254

Amino 1481, 1615, 1673, 2482

AT&T 0858

Chunghwa 1917

Cisco 2345, 2517

Motorola 0858, 2378

Scientific Atlanta 0858, 2345, 2517

SetaBox 1917

Verizon 2378

Satellite Receiver Codes

(Including Sat / PVR Boxes)

Amino 1615

Bell ExpressVu 0775, 1170

Coolsat 2147

Crossdigital 1109

DirecTV 1377, 0392, 0566, 0639, 1639, 1142, 0247, 0749, 1749, 1856, 1076, 1109, 1414, 1442, 1443, 1444, 1609, 0739, 0740

Dish Network System 0775, 1505, 1170, 1775

Dishpro 0775, 1505, 1775

Echostar 0775, 1505, 1170, 1775

Expressvu 0775, 1775
Fortec Star 1948
GE 0566
General Instrument 0869
GOI 0775, 1775
HTS 0775, 1775
Hughes Network 1142, 0749, 1749, 1442, 1443, 1444, 0740
Jerrold 0869
JVC 0775, 1170, 1775
LG 1414
Mitsubishi 0749
Motorola 0869
Next Level 0869
Panasonic 0247, 0701
Pansat 1807
Philips 1142, 0749, 1749, 1076, 1442
Proscan 0392, 0566
RadioShack 0869
RCA 0392, 0566, 0855, 0143
Samsung 1377, 1276, 1109, 1442, 1609
Sonicview 2373, 2374
Sony 0639, 1639
Star Choice 0869
Tivo 1142, 1442, 1443, 1444, 0740
Toshiba 0749, 1749, 0790
Viewsat 1994
Voom 0869
Zenith 1856

PVR Codes

Amino 1673
ABS 1972
Alienware 1972
CyberPower 1972
Dell 1972
DirecTV 0739, 0740
Gateway 1972
Go Video 0614
Hewlett Packard 1972
Howard Computers 1972
HP 1972
Hughes Network Systems 0740
Humax 0739, 1797, 1988
Hush 1972
iBUYPOWER 1972
Linksys 1972
Media Center PC 1972
Microsoft 1972
Mind 1972
Niveus Media 1972
Northgate 1972
Panasonic 0614, 0616, 1807, 1777
Philips 0739, 0618, 1818
Pioneer 1803
RCA 0880
ReplayTV 0614, 0616
Sharp 1893
Sonic Blue 0614, 0616
Sony 0636, 1886, 1972
Stack9 1972
Sylvania 0000
Systemax 1972
Tagar Systems 1972
Tivo 0739, 0618, 0636, 0740
Toshiba 1008, 1972, 1988, 1996
Touch 1972
Viewsonic 1972
Voodoo 1972
ZT Group 1972

Blu-Ray DVD Codes

Denon 2258
Insignia 0675, 2428, 2596
Integra 1769, 2147
JVC 2365
LG 0741, 1602
Magnavox 0675
Marantz 2414
Microsoft 2083
NAD 2572
Olevia 2331
Onkyo 1769, 2147
Oppo 2545, 2546, 2547
Panasonic 1641, 2518
Philips 2084, 2434
Pioneer 0142, 2442
RCA 1769
Samsung 0199, 0298
Sharp 2250, 2561
Sony 1516, 2504
Sylvania 0675, 2194
Toshiba 1769, 1515, 2705
Viore 2553
Vizio 2563
Xbox 2083
Yamaha 2298

DVD/VCR Player Codes

Accurian 0000, 0675
Allegro 0869
Apex Digital 1061
Broksonic 0695
CineVision 0869
Daewoo 0869
Emerson 1593, 0675
Funai 1593, 0675
GFM 1593, 0675
Go Video 0744, 0715, 0741, 0869, 1044, 1075
GoldStar 0741
Hitachi 0000, 0664
JVC 1707, 0867, 1164, 1550, 1602
LG 0741
LiteOn 1656
Magnavox 0000, 1593, 0675
Memorex 0695
Panasonic 1762
Philips 0675, 1267
Pioneer 1460
Polaroid 1061
Presidian 0000, 1593, 0675
RCA 0060, 0522, 0822
Rio 2002
Samsung 0820, 1044, 1075, 2489
Sansui 0695
Sanyo 0104, 0670, 0873
Sharp 0848, 1893, 0630
Sonic Blue 2002
Sony 1702, 1896, 0864, 1033, 1070, 1431
Sylvania 0000, 0593, 1593, 0675
Symphonic 0000, 1593, 0675
Toshiba 0503, 1854
Zenith 0741, 0869

DVD Player Codes

Accurian 0675, 0675
Aiwa 0641, 1912
Akai 0143, 0695, 0770, 1975, 2439
Alco 0790
Allegro 0869
Amphion Media Works 2001, 2016
AMW 2001, 2016
Anam 1913
Apex Digital 0672, 0755, 0794, 0796, 0797, 1004, 1020, 1056, 1061, 1100, 1833, 1915, 1937
Arrgo 1023
Audio Authority 2555
Audiovox 0790, 1041, 1071, 1121, 1122
Axion 1071
B & K 0662
BBK 1224
Bel Canto Design 1571
Blue Parade 0571
Bose 1895, 2023
Boston Acoustics 1856
Broksonic 0695, 0868
California Audio Labs 0490
Cambridge Sound Works 1916
Cinea 0831
CineVision 0869
Citizen 0695, 2116
Classic 1917
Coby 0778, 0852, 1086, 1107, 1165, 1177, 1351, 1628, 1923, 2495, 2535, 2536, 2537, 2538, 2540
Craig 0831
Criterion 2007
Curtis 2660
Curtis Mathes 1087
CyberHome 0816, 1023, 1024, 1129, 1502

Daewoo 0784, 0869, 1169, 1172, 1918
Denon 0490, 0634, 1634, 2258, 2270
Diamond Vision 1609
DigitalMax 1738
Disney 0675, 1270, 2356
Durabrand 1023, 1127
DVD2000 0521
Dynex 2255, 2388
Electrohome 1607, 1729, 2116
Emerson 0591, 0675, 0821, 1268, 2212
Enterprise 0591
ESA 0821, 1268
Fisher 0670, 1919
Funai 0675, 1268
Gateway 1077
GE 0522, 0815
GFM 0675, 1268
Go Video 0744, 0715, 0741, 0869, 1044, 1075, 1970
Go Vision 1071
GoldStar 0741, 0869
Goodmans 2274
Grundig 0539
Haier 2099, 2500
Harman/Kardon 0582, 0702, 1229
Helios 2080, 2192
Hello Kitty 0831
Hitachi 0573, 0664, 1919
Hiteker 0672
Humax 1500, 1588
iLo 1348, 1472
Initial 1472, 1931
Insignia 0675, 1013, 1268, 1712, 1830, 2095, 2150, 2255, 2428, 2596, 2620
Integra 0571, 1769, 0627, 1634, 1924, 2147
iSymphony 1792
JBL 0702, 1926
JVC 0558, 0623, 0867, 1164, 1275, 1550, 1602, 1863, 1901, 1940, 2365, 2472
Kawasaki 0790
Kenwood 0490, 0534
KLH 0790, 1020, 1149, 1939
Konka 0711
Koss 1980
Lenoxx 1127, 1938
LG 0591, 0741, 0869, 1602, 1906, 2002, 2485, 2568
Liquid Video 1980
LiteOn 1058, 1656, 1738
Logitech 2639
Magnavox 0503, 0539, 0646, 0675, 0821, 1177, 1268, 1354, 1472, 1506, 1914, 1976, 2229, 2632
Marantz 0539, 2414
McIntosh 1273
Memorex 0695, 0831, 1270, 1607, 2213
Messiah Entertainment 2396
Microsoft 0522, 2083
Mintek 1472
Mitsubishi 1521, 0521
NAD 0741, 2572
NexxTech 1830
Norcent 1107, 1830, 1923
Nova 1923
Nyko 2340
Olevia 2331
Onkyo 0503, 1769, 0627, 1924, 1985, 2147
Oppo 0575, 1224, 1525, 2185, 2545, 2546, 2547
Oritron 1980
Panasonic 0490, 0503, 2967, 2518, 2017, 1990, 1925, 1909, 1908, 1907, 1762, 1641, 1579, 1490, 1462, 1362, 0703, 0632, 0458
Philco 0675
Philips 0503, 0539, 2056, 2084, 0646, 2531, 2526, 2434, 1914, 1911, 1846, 1506, 1354, 1340, 1267, 1260, 0675
PianoDisc 1024
Pioneer 0525, 0571, 0142, 0631, 0632, 1460, 1512, 1531, 1571, 1902, 1965, 2442
Polaroid 1013, 1020, 1061, 1086, 1482, 1998, 2110, 2140
Polk Audio 0539
Portland 0770
Presidian 0675, 1738
Proceed 0672
Proscan 0522, 2450
ProVision 0778
RCA 0522, 0571, 1769, 0790, 0822, 1013, 1132, 1913, 1965, 1974, 2213, 2392
Regent 1938
Rio 0869, 2002
Rotel 0623
Saba 1977
Sampo 0752
Samsung 0490, 0573, 0199, 0298, 0820, 1044, 1075, 1470, 1932, 1979, 2069, 2329, 2369, 2489, 2556
Sansui 0695, 1607
Sanyo 0670, 0695, 0873, 1919, 1967
Schmartz 2367
Schneider 0646
Sharp 1893, 0630, 0675, 0752, 1256, 2250, 2561
Sherwood 0633, 0770, 1043, 1077, 1889
Sherwood Newcastle 1077
Shinsonic 0533, 1931
Sonic Blue 0869, 1970, 2002
Sony 1702, 1896, 1633, 0533, 0864, 0772, 1033, 1070, 1431, 1516, 1536, 1824, 1903, 1904, 1934, 1981, 2020, 2132, 2504
Sova 1122
Superscan 0821
Sylvania 0675, 0821, 1268, 2194, 2212
Symphonic 0675, 0821
Teac 0790, 1984
Technics 0490, 0703
Terapin 1031
Theta Digital 0571
Tivo 1503, 1512
Toshiba 0503, 1769, 0695, 1045, 1154, 1503, 1510, 1515, 1588, 1606, 1608, 1854, 2006, 2165, 2277, 2705
Trutech 2264
Urban Concepts 0503
Venturer 0790, 2195
Viore 2154, 2300, 2553, 2580
Vizio 1064, 1226, 2563
Westinghouse 2513
Xbox 0522, 2083
Yamaha 0490, 0539, 0646, 0545, 0497, 0817, 1840, 2298, 2558
Zenith 0503, 0591, 0741, 0869, 1906

Amplifier / Receiver / Tuner Codes

Adcom 1100
Aiwa 1405, 1388, 1641, 2298
Akai 1512
Alco 1390
AMC 1077
Amphion Media Works 1563, 1615
AMW 1563, 1615
Anam 1609, 1074
Anthem 2220
Apex Digital 1257, 1430, 1774
Arcam 1189
Audiotronic 1189
Audiovox 1390, 1627
B & K 0820
Bose 1229, 0639, 1253, 1629, 1841, 1933
Boston Acoustics 1840, 1847, 2162, 2232
Brix 1602
Cambridge Soundworks 1370, 2297
Cary Audio Design 1879
Carver 1189
Classic 1352
Coby 1389, 2127
Cox Cable 1517
Criterion 1420
Curtis 1596

Daewoo 1250
Delphi 1414, 1846
Denon 2134, 2857, 1360, 1142, 2230, 2263, 2279, 2861, 2862
DirecTV 1517
Dish Network 1517
Electrohome 2026
Emerson 1659
Fisher 1801
Flextronics 1879
Gateway 1517
Go Video 1532
GPX 2319
Halcro 1934
Harman/Kardon 0892
Harman/Kardon 0891, 1304, 1306, 2241, 2443
Hitachi 1801
iHome 2435
iLive 2013
Initial 1426
Insignia 1030, 1077, 1751, 1893, 2126, 2169, 2175, 2472, 2474, 2545
Integra 1298, 1320, 1805, 2989, 2993
iSymphony 2018, 2258, 2442
Jamo 2160
JBL 1306
JVC 1374, 1495, 1534, 1560, 1643, 1676, 1811, 1871, 1894, 2040, 2161, 2239, 2299, 2331, 2456
Kenwood 1313, 1570, 1569, 1770
KLH 1390, 1412, 1428
Koss 1366, 1497
Krell 1837, 2463
Lasonic 1798
Lenoxx 1437
LG 1293, 2197, 2284
Liquid Video 1497
Logitech 2217
Left Coast 0892
Magnavox 1189, 1269, 1514
Marantz 0892, 1189, 1269, 1289, 1892, 2114, 2117, 2118, 2138
Mark Levinson 2405
McIntosh 1289
Memorex 1596
Micromega 1189
Mitsubishi 1393
Myryad 1189
NAD 1989, 1995, 2457
Nakamichi 1313
NexxTech 1751
Norcent 1389, 1751
Nova 1389
Onkyo 0842, 1298, 1320, 1531, 1805, 2259, 2451, 2989, 2993
Optimus 1023, 1074
Oritron 1366, 1497
Panasonic 1308, 1518, 1275, 1288, 1316, 1548, 1633, 1763, 1764, 1807, 2221, 2452, 2549, 2967, 2968
Parasound 1934, 2245
Philips 0892, 1189, 1269, 0891, 1266, 1538, 1831, 2029, 2311, 2459, 2461
Pioneer 1023, 1384, 1459, 1935
Polaroid 1508
Polk Audio 0892, 1289, 1414, 1988, 2115, 2242, 2244, 2270
Primare 1851, 2479
Proscan 1254
RCA 1023, 1609, 1254, 1074, 1390, 1459, 1511, 2041
Regent 1437
Rio 1869
Rotel 2003
Saba 1519
Samsung 1295, 1304, 1500, 1868
Sangean 1888, 2165, 2296
Sanyo 1251, 1469, 1801
Sharp 1286
Sherwood 1077, 1517, 1653, 1905, 2169
Sherwood Newcastle 2169
Shinsonic 1426
Sirius 1602, 1627, 1770, 1811, 1987, 1988, 2124
Sonic Blue 1532, 1869
Sony 1759, 1058, 1441, 1258, 1622, 2522, 2320, 2216, 2172, 1858, 1822, 1758, 1658, 1558, 1547, 1529, 1406
Stereophonics 1023
Sunfire 1313, 1521, 1931
Super Atlas 1517
Teac 1074, 1390, 1528, 2261, 2363
Technics 1308, 1518
Thorens 1189
Thule Audio 1851
Toshiba 1788
Venturer 1390
Vizio 1517
XACT 2124
XM 1406, 1414, 1846
Yamaha 0176, 0376, 1176, 1276, 1331, 1375, 1376, 1476, 1815, 2061, 2455, 2467, 2469, 2471
Zenith 1293
ZVOX 2332

Game Console Codes

Audio Authority 2555
Logitech 2639
Messiah Entertainment 2396
Microsoft 0522, 2083
Nyko 2340
Schmartz 2367
Sony 0533, 0772
Xbox 0522, 2083

Audio Accessory Codes

(Including CD Players and Soundbars)

Accurian 1106
Acoustic Research 2226
Aiwa 0157
Altec Lansing 0607, 1056, 2251
Apple 1115
Arcam 0157
ASI 2454
B&W 2441
Bryston 2368
Burmester 0420
California Audio Labs 0029, 0303
Cambridge Audio 1731
Carver 0157, 0179
Classe 2046
Creative 2288
D-Link 1522
Denon 0003, 0034, 2502, 2815
DKK 0000
DLO 1155
DMX Electronics 0157
Fisher 0179
Garrard 0393, 0420
Genexxa 0032
GPX 2113
Griffin 1891
Harman/Kardon 0157
Hitachi 0032
iDeck 1106
iHome 2152
iLive 2113
Integra 0101
JVC 0072, 1294
Kenwood 0626, 0028, 0190
KLH 1318, 1372, 1373, 1711
Klipsch 2553
Krell 0157, 2464
Linn 0157
Logitech 2182
Magnavox 0157, 0038
Marantz 0626, 0029, 0157, 0038, 0180, 0435
Mark Levinson 1484
McIntosh 0256, 0290, 0660, 1703
MCS 0029
Memorex 2119
Miro 0000
Mission 0157
Monitor Audio 1106
MTC0420
Myryad 0157
NAD 2096
Netgear 1785
NSM 0157

Nyko 2231
Onkyo 1327, 0101
Optimus 0000, 0032, 0087, 0179, 0420, 0468
Panasonic 0029, 0303, 0388, 0752
Parasound 0420
Philips 0626, 0157, 0274
Pioneer 1062, 0032, 1087, 0468, 2327
Polk Audio 0157, 2228
Primare 2480
Proceed 0420
Proton 0157
QED 0157
Quad 0157
Quasar 0029
RCA 1062, 0032, 0053, 0179, 0420, 0468
Realistic 0179, 0180, 0420
Rotel 0157, 0420, 2046
Roku 1828
SAE 0157
Sansui 0157
Sanyo 0087, 0179
Sharp 0180
Sherwood 0180, 1950
Sonic Frontiers 0157
Sony 0490, 0000, 0100, 1364, 0185
SSI 1522
TAG McLaren 0157
Tascam 0420
Teac 0180, 0378, 0393, 0420
Technics 0029, 0303
Tivoli Audio 1553, 2158
Victor 0072
Vizio 2454
Wards 0157, 0053
Yamaha 0490, 0036, 1292, 1797, 2021, 2116, 2458

Video Accessory Codes

Access HD 2185
ADB 2254
Airlink 101 2491
Alpha Digital 2185
Amino 1481, 1615, 1673, 2482
AMTC 2185
Apex Digital 2478
Artec 2490
AT&T 0858
CASTi 2305
Channel Master 2365
Chunghwa 1917
Cisco 2345, 2517
Coby 2667
Coship 2487
Daewoo 2338
Daytek 2305
Digital Stream 2303
Dish Network 2470
Echostar 2470
Epson 1563
GE 2360, 2450
Goodmind 2450
Gridlink 2348
Insignia 1415
KoolConnect 1481
Lasonic 2348
LG 1415
Magnavox 1563
Memorex 2486
MicroGEM 2489
Motorola 0858, 2378
Panasonic 1120
Philco 1563
RCA 2325, 2454
Samsung 1190, 1490, 2592
Sansonic 2348
Scientific Atlanta 0858, 2345, 2517
SetaBox 1917
Sunkey 2695
SureWest 1481
Sylvania 1563
Tivax 2185
Ventura 2454
Venturer 2454
Verizon 2378
Winegard 2454
Zenith 1415
Zentech 2491
Zinwell 2488

VCR Codes

ABS 1972
Accurian 0000
Admiral 0048, 0209, 0020, 0479
Adventura 0000
Aiko 0278
Aiwa 0037, 0000, 0307
Akai 0041, 0061, 0106
Alienware 1972
Allegro 0039
America Action 0278
American High 0035
Asha 0240
Audiovox 0037, 0278
Beaumark 0240
Bell & Howell 0104
Broksonic 0184, 0121, 0209, 0002, 0479, 1479
Calix 0037
Canon 0035
Capehart 0020
Carver 0081
CCE 0072, 0278
Citizen 0037, 0278
Colt 0072
Craig 0037, 0047, 0240, 0072, 0271
Crosley 0081, 0000
Curtis Mathes 0060, 0035, 0162, 0240, 0041, 0278, 0760
Cybernex 0240
CyberPower 1972
Daewoo 0045, 0278, 0020, 0561
Daytron 0020
Dell 1972
Denon 0042
DIRECTV 0739, 0740
Durabrand 0039, 0038
Dynatech 0000
Electrohome 0037, 0043
Electrophonic 0037
Emerex 0032
Emerson 0037, 0184, 0000, 0121, 0043, 0209, 0002, 0278, 0061, 0208, 0479, 0561, 0593, 1479, 1593
Fisher 0047, 0104
Fuji 0035, 0033
Funai 0000, 0593, 1593
Garrard 0000
Gateway 1972
GE 0060, 0035, 0240, 0202, 0760, 0761, 1060
GFM 1593
Go Video 0240, 0432, 0526, 0614
GoldStar 0037, 0038, 0480
Harley Davidson 0000
Harman/Kardon 0081, 0038
Harwood 0072
Headquarter 0046
Hewlett Packard 1972
HI-Q 0047
Hitachi 0000, 0042, 0041, 0105
Howard Computers 1972
HP 1972
Hughes Network Systems 0042, 0740
Humax 0739, 1797, 1988
Hush 1972
iBUYPOWER 1972
Instant Replay 0035
Jensen 0041
JVC 0067, 0041, 0008, 1067, 1707
KEC 0037, 0278
Kenwood 0067, 0041, 0038
KLH 0072
Kodak 0035, 0037
LG 0480, 1037, 1720
Linksys 1972
Lloyd's 0000, 0208
Logik 0072
LXI 0037
Magnasonic 0593
Magnavox 0035, 0039, 0081, 0000, 0149, 0563, 0593, 1593, 1781
Magnin 0240

Marantz 0035, 0081, 0062
Marta 0037
Matsushita 0035, 0162, 1162
Media Center PC 1972
MEI 0035
Memorex 0035, 0162, 0037, 0048, 0039, 0047, 0240, 0000, 0104, 0209, 0046, 0307, 0479, 1037, 1162, 1262
MGA 0240, 0043, 0061
MGN Technology 0240
Microsoft 1972
Mind 1972
Minolta 0042, 0105
Mitsubishi 0067, 0043, 0061
Motorola 0035, 0048
MTC 0240, 0000
Multitech 0000, 0072
NEC 0104, 0067, 0041, 0038
Nikko 0037
Niveus Media 1972
Noblex 0240
Northgate 1972
Olympus 0035
Optimus 1062, 0162, 0037, 0048, 0104, 0432, 0593, 1048, 1162, 1262
Optonica 0062
Orion 0184, 0209, 0002, 0479, 1479
Panasonic 1062, 0035, 0162, 0614, 0616, 1162, 1262, 1807, 1777
Penney 0035, 0037, 0240, 0042, 0038
Pentax 0042, 0105
Philco 0035
Philips 0739, 0035, 0081, 0062, 0618, 1081, 1181, 1818
Pilot 0037
Pioneer 0067, 1803
Polk Audio 0081
Portland 0278, 0020
Presidian 1593
Profitronic 0240
Proscan 0060, 0202, 0760, 0761, 1060
Protec 0072
Pulsar 0039
Quarter 0046
Quartz 0046
Quasar 0035, 0162, 1162
RadioShack 0000, 1037
Radix 0037
Randex 0037
RCA 0060, 0240, 0042, 0149, 0105, 0106, 0202, 0760, 0761, 0880, 1060
Realistic 0035, 0037, 0048, 0047, 0000, 0104, 0046, 0062
ReplayTV 0614, 0616
Ricavision 1972
Runco 0039
Samsung 0240, 0045, 1014
Sanky 0048, 0039
Sansui 0000, 0067, 0209, 0041, 0271, 0479, 1479
Sanyo 0047, 0240, 0104, 0046
Sceptre 0104
Scott 0184, 0045, 0121, 0043
Sears 0035, 0037, 0047, 0000, 0042, 0104, 0046, 0105
Sharp 0048, 0062, 0848, 1893
Shintom 0072
Shogun 0240
Singer 0072
Sonic Blue 0614, 0616
Sony 1232, 0032, 0035, 0033, 0000, 0636, 1032, 1702, 1886, 1896, 1972
Stack9 1972
STS 0042
Sylvania 0035, 0081, 0000, 0043, 0593, 1593, 1781
Symphonic 0000, 0593, 1593
Systemax 1972
Totevision 0037, 0240
Touch 1972
Tagar Systems 1972
Tashiko 0037
Tatung 0041
Teac 0000, 0041
Technics 0035, 0162
Teknika 0035, 0037, 0000
Thomas 0000
Tivo 0739, 0618, 0636, 0740, 1996
TMK 0240, 0208
Toshiba 0045, 0043, 0209, 0041, 1008, 1145, 1972, 1988, 1996
Unitech 0240
Vector 0045
Vector Research 0038
Video Concepts 0045, 0061
Videomagic 0037
Videosonic 0240
Viewsonic 1972
Voodoo 1972
Wards 0060, 0035, 0048, 0047, 0081, 0240, 0000, 0042, 0072, 0149, 0062, 0760
White Westinghouse 0209, 0072
XR-1000 0035, 0000, 0072
Yamaha 0038
Zenith 0037, 0039, 0033, 0000, 0209, 0479, 1139, 1479
ZT Group 1972

Chapter 10 Maintenance and Troubleshooting

Cleaning the TV and Remote Control

1. Remove the power adapter cable from the TV.
2. Use a soft cloth moistened with diluted neutral cleaner to clean the TV and remote control. VIZIO recommends using an HDTV cleaning solution which can be purchased at any major retailer.
3. Wring liquid out of the cloth before cleaning to prevent water from penetrating into the housing.
4. Wipe the TV and remote control with a dry cloth after cleaning.

Important:

- Do not use volatile solvent (such as toluene, rosin and alcohol). Such chemicals may damage the housing, screen glass, and remote control, and cause labeling to peel.
- The screen glass is very fragile. Do not scrape it with any sharp object.
- Do not press or tap the screen to avoid cracking.

Troubleshooting Guide

If the TV fails or the performance changes dramatically, check the following troubleshooting guide for possible solutions. Remember to check the peripherals to pinpoint the source of the failure. If the display still fails to perform as expected, contact the VIZIO for assistance by calling 1-877-MYVIZIO (877-698-4946) or e-mail us at techsupport@vizio.com.

General TV Problems	Solution
Receive the error message “No Signal.”	• Press the INPUT button on the remote control to select a different input source. • If you are using cable connected directly to the TV or an antenna, scan for channels from the Tuner menu in the OSD. • Press the TV button on the top of the remote to return to the TV mode.
No power.	• Make sure the power button is ON (VIZIO logo glows white). • Make sure the AC power cord is securely connected to the AC socket. • Plug another electrical device to the power outlet to verify that the outlet is working.
No sound.	• Press Volume + (Up) on the remote control. • Press MUTE on the remote control to make sure that MUTE is not ON. • Check your audio settings. The audio may be set to SAP, or the speakers are set to off. • Check the audio connections of external devices that may be connected to the HDTV. • If you are using an antenna, the signal strength of the channel may be low. Make sure your antenna is connected securely to the TV and move the antenna around the room or close to a window.
If the screen is black.	• Make sure the power button is ON (VIZIO Logo glows white). • Press the INPUT button on the remote control to select a different input source. • Check the connections of external devices that may be connected to the HDTV. • Press the TV button on the top of the remote to return to the TV mode.

General TV Problems	Solution
Power is ON but there is no image on the screen.	• Make sure all cables attached to the HDTV are connected to the correct output on the external device. • Adjust brightness, contrast or backlight. • Press the INPUT button on the remote control to select a different input source. • Press the TV button on the top of the remote to return to the TV mode.
Wrong or abnormal colors appear.	• Check Color and Tint settings in Picture Menu. • Reset Picture settings. • Check the video cables to make sure they are securely connected. • If you are using an antenna, the signal strength of the channel may be low. Make sure your antenna is connected securely to the TV and move the antenna around the room or close to a window.
Control buttons do not work.	• Press only one button at a time. • Press the TV button on the top of the remote to return to the TV mode.
Remote control does not work.	• Point the remote control directly at the remote sensor on your TV. • Remove any obstacles between the remote control and the remote sensor. • Replace dead batteries with new ones. • Press the TV button on the top of the remote to return to the TV mode.
There appear to be image quality issues.	• If you are using an antenna, the signal strength of the channel may be low. Make sure your antenna is connected securely to the TV and move the antenna around the room or close to a window. • For best image quality, view HD wide-screen programs where possible. • If HD content is not available view “Standard Definition” from a digital source. • Standard, analog TV will always be noticeably inferior to HD because your digital flat panel TV has video that is many times better than old TV so you will see interference and deficiencies you did not know you had.
You cannot see a picture.	• Make sure the power button is ON (VIZIO logo glows white). • Make sure the AC power cord is securely connected to the AC socket. • Press the INPUT button on the remote control to select a different input source. • Press the TV button on the top of the remote to return to the TV mode. • Check the connections of external devices that may be connected to the HDTV. • If your HDTV is connected to a computer, press any button on your keyboard to “wake” your computer. • If you are using an antenna, the signal strength of the channel may be low. Make sure your antenna is connected securely to the TV and move the antenna around the room or close to a window.
You see a distorted picture or hear unusual sound.	• You may be getting interference from electrical appliances, cars, motorcycles, or fluorescent lights. If you have not mounted it on the wall, try moving your HDTV to another location to see if this is the cause of the problem.
The picture has abnormal patterns.	• Check the connections of external devices that may be connected to the HDTV. • Make sure the specifications of external devices meet the specifications of your HDTV (like resolution). • If you are using an antenna, the signal strength of the channel may be low. Make sure your antenna is connected securely to the TV and move the antenna around the room or close to a window.

General TV Problems	Solution
The display image does not cover the entire screen.	• If you are in RGB mode (Computer), make sure that H-Size and V-Position in the On Screen Display (OSD) are set correctly. • If you are using TV, AV1, AV2 or Component with 480i input, press the WIDE button on the remote control to scroll through various screen modes.
You can see a picture but you cannot hear sound.	• Press Volume + (Up) on the remote control. • Press MUTE on the remote control to make sure that MUTE is not ON. • Check your audio settings. The audio may be set to SAP, or the speakers are set to off. • Check the audio connections of external devices that may be connected to the HDTV.
The TV has pixels (dots) that are always dark or colored.	• Your HDTV is manufactured using an extremely high level of precision technology, however, sometimes some pixels of your HDTV may not display. Pixel defects within industry specifications are inherent to this type of product and do not constitute a defective product.
You see “noise” or “trash” on the screen.	• When your HDTV’s digital capabilities exceed a digital broadcast signal, the signal is up-converted (increased) to match your TV’s display capabilities. Up-converting can cause noise or trash. • If you are using an antenna, the signal strength of the channel may be low. Make sure your antenna is connected securely to the TV and move the antenna around the room or close to a window.
You switch to a different input and the volume changes.	• The TV remembers the volume level from the last time you adjusted it. If the sound level is higher or lower from another source, then the volume will change.
You switch to a different input and the screen size changes.	• The TV remembers the viewing mode from the last time you used a particular input (AV-1, AV-2, Component, HDMI and TV).
Tips for High-Definition Users.	• Your HDTV is an ideal platform for viewing High Definition Content. • Best image quality will be achieved by HDMI. The next best is Component, followed by Composite. • Due to variances in broadcast practices, it is possible some image distortions can occur.
Tips for Letterbox Content Users.	• Some Letterboxed (or “Widescreen”) versions of DVD movies are formatted for standard 4:3 Televisions. Your HDTV has the ability to expand this content so the entire screen is filled at the expense of image accuracy. To use this function, press ZOOM on the remote control to cycle among the options.

Media Viewer Problems	Solution
USB device is not recognized.	• Make sure the device is correctly inserted. • Make sure the device is FAT or FAT32 • Make sure it contains the supported files.
Image or sound is interrupted or distorted.	• Make sure the device is correctly inserted. • Make sure that the file complies with the supported format, bit rate and/or profile. Also check the file for damage. • Some files that comply with the supported format may not play back or display properly.
Slideshow doesn’t start.	• Make sure the viewer isn’t in pause, rotation, or zoom mode.

Telephone & Technical Support

Products are often returned due to a technical problem rather than a defective product that may result in unnecessary shipping charges billed to you. Our trained support personnel can often resolve the problem over the phone. For more information on warranty service or repair, after the warranty period, contact our Support Department at the number below.

Customer support and quality service are integral parts of VIZIO's commitment to service excellence.

For technical assistance contact our VIZIO Technical Support Department via email or phone.

Email: **techsupport@VIZIO.com**

(877) 698-4946 Fax: (949) 585-9563

Hours of operation: Monday - Friday: 6 am to 9 pm

Saturday – Sunday: 8 am to 4 pm

Have your VIZIO model number, serial number, and date of purchase available before you call.

VIZIO

Address:

39 Tesla

Irvine, CA 92618, USA

Telephone: (888) 849-4623 (949) 428-2525 Fax: (949) 585-9514

Web: **www.VIZIO.com**

Compliance

Caution: Always use a power cable that is properly grounded. Use the AC cords listed below for each area.

USA: UL **Canada**: CSA

Germany: VDE **UK**: BASE/BS

Japan: Electric Appliance Control Act

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.

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 AC/DC power adapter, 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.

Chapter 11 Specifications

Product specifications may change without notice or obligation.

E421VL Specifications

E421VL	Specifications
Panel	42.02” Diagonal, 16:9 Aspect Ratio
Resolution	1920 x 1080 pixels
Pixel (Dot) Pitch	0.4845mm (H) x 0.4845mm (H)
Display Compatibility	1080P (FHDTV)
Colors	1.06 billion @ 10 bit
Brightness cd/m2 (typical)	500nits
Contrast	Dynamic Contrast Ratio: 100,000:1
Response Time	5ms (typical)
Viewing Angle	178° (horizontal/vertical)
Inputs	3 x HDMI with HDCP (1 with L/R audio inputs) 1 x RF (F connector for internal tuner) 1x Composite Video and Stereo Audio 1x Component YPbPr plus Stereo Audio 1x Computer RGB plus Stereo Audio 1x USB (side)
Outputs	1x 5.1 S/PDIF Optical Digital Audio, 1x Stereo Audio
Features	MEMC,1080P FHDTV,120Hz PANEL, 10-BIT VIDEO PROCESSING,MTS STEREO DECODER, HDMI v1.3, 3D COMB FILTER, DIGITAL AUDIO AMPLIFIER, DYNAMIC CONTRAST RATIO TECHNOLOGY, ZERO BRIGHT PIXEL GUARRANTEE, HD GAME PORT, DIGITAL AUDIO AMPLIFIER, NOISE REDUCTION, DOLBY DIGITAL FOR ATSC/QAM, SIGNAL COMPATIBILITY: 480I(SDTV), 480P(EDTV), 720P(HDTV), 1080I(HDTV), 1080P(FHDTV), CHANNEL SKIP/ADD, FAVORITE CHANNEL, VIDEO/INPUT NAMING CAPABILITY, CLOSED CAPTION, PARENTAL CONTROL/V-CHIP 2.0, PROGRAMMABLE TIMER, PIP/POP, SRS TSHD, SRS TruVolume, VESA MOUNT COMPATABILE, MULTIMEDIA.
Special Features	• 120Hz panel W/O scanning backlight • Multimedia(JPEG) • HDMI CEC • Ambient light sensor • 1080 FHDTV • HDMI v1.3 • DYNAMIC CONTRAST RATIO TECHNOLOGY • DOLBY DIGITAL FOR ATSC/QAM • 480I(SDTV), 480P(EDTV), 720P(HDTV), 1080I(HDTV), 1080P (FHDTV) • CHANNEL SKIP VIDEO/INPUT NAMING CAPABILITY • CLOSED CAPTION • PARENTAL CONTROL/V-CHIP 2.0 • PROGRAMMABLE TIMER • SRS TSHD • SRS TruVolume • DETACHABLE BASE
Speakers	2xBuilt-in, 10W Speakers
Panel Life	50,000 hours to half the original brightness

Power	
Input	IEC Connector for direct power line connection
Voltage Range	100~240Vac at 50/60Hz
Power Consumption	111W (Avg), 0.37W standby
Environmental Conditions	
Operating	Temperature: 5°C~35°C, Relative Humidity: 20~80%, Altitude: 0~14,000 ft
Non-Operating	Temperature: -20°C~50°C, Relative Humidity: 10~70%, Altitude: 0~40,000 ft
Dimensions	40.26" W x 27.48" H x 8.99" D with stand; 40.26" W x 25.91" H x 3.51" D without stand 1023 x 698 x 228.4 mm with stand;1023x 658 x 89.3 mm without stand
Net Weight	32.85 lbs with stand; 31.09 lbs without stand 14.9 kg with stand; 14.1 kg without stand
Gross Weight	42.99 lbs; 19.50 kg
Certifications	CSA, CSA-US, FCC Class B
Compliances	Energy Star 4.0. ATSC Spec A/65, EIA/CEA-766-A

E470VL Specifications

E470VL	Specifications
Panel	46.96" Diagonal, 16:9 Aspect Ratio
Resolution	1920 x 1080 pixels
Pixel (Dot) Pitch	0.5415mm (H) x 0.5415mm (V)
Display Compatibility	1080P (FHDTV)
Colors	1.06 Billion @ 10 bit color depth
Brightness cd/m2 (typical)	500nits
Contrast	Dynamic Contrast Ratio: 100,000:1
Response Time	5ms (typical)
Viewing Angle	178° (horizontal/vertical)
Inputs	3 x HDMI with HDCP (1 with L/R audio inputs) 1 x RF (F connector for internal tuner) 1x Composite Video and Stereo Audio 1x Component YPbPr plus Stereo Audio 1x Computer RGB plus Stereo Audio 1x USB (side)
Outputs	1x 5.1 S/PDIF Optical Digital Audio, 1x Stereo Audio
Features	MEMC,1080P FHDTV,120Hz PANEL, 10-BIT VIDEO PROCESSING,MTS STEREO DECODER, HDMI v1.3, 3D COMB FILTER, DIGITAL AUDIO AMPLIFIER, DYNAMIC CONTRAST RATIO TECHNOLOGY, ZERO BRIGHT PIXEL GUARRANTEE, HD GAME PORT, DIGITAL AUDIO AMPLIFIER, NOISE REDUCTION, DOLBY DIGITAL FOR ATSC/QAM, SIGNAL COMPATIBILITY: 480I(SDTV), 480P(EDTV), 720P(HDTV), 1080I(HDTV), 1080P(FHDTV), CHANNEL SKIP/ADD, FAVORITE CHANNEL, VIDEO/INPUT NAMING CAPABILITY, CLOSED CAPTION, PARENTAL CONTROL/V-CHIP 2.0,

	PROGRAMMABLE TIMER, PIP/POP, SRS TSHD, SRS TruVolume, VESA MOUNT COMPATABILE, MULTIMEDIA.	
Special Features	• 120Hz panel W/O scanning backlight • Multimedia(JPEG) • HDMI CEC • Ambient light sensor • 1080 FHDTV • HDMI v1.3 • DYNAMIC CONTRAST RATIO TECHNOLOGY • DOLBY DIGITAL FOR ATSC/QAM	• 480I(SDTV), 480P(EDTV), 720P(HDTV), 1080I(HDTV), 1080P (FHDTV) • CHANNEL SKIP VIDEO/INPUT NAMING CAPABILITY • CLOSED CAPTION • PARENTAL CONTROL/V-CHIP 2.0 • PROGRAMMABLE TIMER • SRS TSHD • SRS TruVolume • DETACHABLE BASE
Speakers	2xBuilt-in, 10W Speakers	
Panel Life	50,000 hours to half the original brightness	
Power		
Input	IEC Connector for direct power line connection	
Voltage Range	100~240Vac at 50/60Hz	
Power Consumption	134W (Avg), 0.37W standby	
Environmental Conditions		
Operating	Temperature: 5°C~35°C, Relative Humidity: 20~80%, Altitude: 0~14,000 ft	
Non-Operating	Temperature: -20°C~50°C, Relative Humidity: 10~70%, Altitude: 0~40,000 ft	
Dimensions	44.65” W x 29.99” H x 10.43” D with stand; 44.65” W x 28.44” H x 3.66” D without stand 1134 x 761.8 x 265 mm with stand;1134 x 722.4 x 93.1 mm without stand	
Net Weight	44.75 lbs with stand; 39.68 lbs without stand; 20.3 kg with stand; 18 kg without stand	
Gross Weight	58.86 lbs; 26.7 kg	
Certifications	CSA, CSA-US, FCC Class B	
Compliances	Energy Star 4.0. ATSC Spec A/65, EIA/CEA-766-A	

E551VL Specifications

E551VL	Specifications
Panel	54.64” Diagonal, 16:9 Aspect Ratio
Resolution	1920 x 1080 pixels
Pixel (Dot) Pitch	0.630 mm (H) x 0.630 mm (V)
Display Compatibility	1080P (FHDTV)
Colors	1.06 Billion @ 10 bit color depth
Brightness cd/m2 (typical)	500nits
Contrast	Dynamic Contrast Ratio: 100,000:1
Response Time	5ms (typical)
Viewing Angle	178° (horizontal/vertical)

Inputs	3 x HDMI with HDCP (1 with L/R audio inputs) 1 x RF (F connector for internal tuner) 1x Composite Video and Stereo Audio 1x Component YPbPr plus Stereo Audio 1x Computer RGB plus Stereo Audio 1x USB (side)	
Outputs	1x 5.1 S/PDIF Optical Digital Audio, 1x Stereo Audio	
Features	MEMC,1080P FHDTV,120Hz PANEL, 10-BIT VIDEO PROCESSING,MTS STEREO DECODER, HDMI v1.3, 3D COMB FILTER, DIGITAL AUDIO AMPLIFIER, DYNAMIC CONTRAST RATIO TECHNOLOGY, ZERO BRIGHT PIXEL GUARRANTEE, HD GAME PORT, DIGITAL AUDIO AMPLIFIER, NOISE REDUCTION, DOLBY DIGITAL FOR ATSC/QAM, SIGNAL COMPATIBILITY: 480I(SDTV), 480P(EDTV), 720P(HDTV), 1080I(HDTV), 1080P(FHDTV), CHANNEL SKIP/ADD, FAVORITE CHANNEL, VIDEO/INPUT NAMING CAPABILITY, CLOSED CAPTION, PARENTAL CONTROL/V-CHIP 2.0, PROGRAMMABLE TIMER, PIP/POP, SRS TSHD, SRS TruVolume, VESA MOUNT COMPATABILE, MULTIMEDIA.	
Special Features	• 120Hz panel W/O scanning backlight • Multimedia(JPEG) • HDMI CEC • Ambient light sensor • 1080 FHDTV • HDMI v1.3 • DYNAMIC CONTRAST RATIO TECHNOLOGY • DOLBY DIGITAL FOR ATSC/QAM	• 480I(SDTV), 480P(EDTV), 720P(HDTV), 1080I(HDTV), 1080P (FHDTV) • CHANNEL SKIP VIDEO/INPUT NAMING CAPABILITY • CLOSED CAPTION • PARENTAL CONTROL/V-CHIP 2.0 • PROGRAMMABLE TIMER • SRS TSHD • SRS TruVolume
Speakers	2xBuilt-in, 15W Speakers	
Panel Life	50,000 hours to half the original brightness	
Power		
Input	IEC Connector for direct power line connection	
Voltage Range	100~240Vac at 50/60Hz	
Power Consumption	155W (Avg), 0.37W standby	
Environmental Conditions		
Operating	Temperature: 5°C~35°C, Relative Humidity: 20~80%, Altitude: 0~14,000 ft	
Non-Operating	Temperature: -20°C~50°C, Relative Humidity: 10~70%, Altitude: 0~40,000 ft	
Dimensions	52.13” W x 34.44” H x 13.15” D with stand; 52.13” W x 32.56” H x 4.95” D without stand 1324 x 875 x 334 mm with stand;1324 x 827 x 125.7 mm without stand	
Net Weight	78.71 lbs with stand; 67.68 lbs without stand 35.7 kg with stand; 30.7 kg without stand	
Gross Weight	95.9 lbs; 43.5 kg	
Certifications	CSA, CSA-US, FCC Class B	
Compliances	Energy Star 4.0. ATSC Spec A/65, EIA/CEA-766-A	

Preset PC Resolutions

If connecting to a PC through the RGB PC input, set the TV timing mode to VESA 1920x1080 at 60Hz for best picture quality (refer to the graphic card's user guide for questions on how to set this timing mode). See the table below for the factory preset resolutions.

Mode No.	Resolution	Refresh Rate (Hz)	Horizontal Frequency (KHz)	Vertical Frequency (Hz)	Horizontal Sync Polarity (TTL)	Vertical Sync Polarity (TTL)	Pixel Rate (MHz)	Remark
1	640 x 480	60	31.469	59.941	N	N	25.175	Windows
2	640 x 480	75	37.500	75.000	N	N	31.500	Windows
3	800 x 600	60	37.879	60.317	P	P	40.000	Windows
4	800 x 600	72	48.077	72.188	P	P	50.000	Windows
5	800 x 600	75	46.875	75.000	P	P	49.500	Windows
6	1024 x 768	60	48.363	60.004	N	N	65.000	Windows
7	1024 x 768	70	56.476	70.069	N	N	75.000	Windows
8	1024 x 768	75	60.023	75.029	P	P	78.750	Windows
9	720 x 400	70	31.469	70.087	N	P	28.322	DOS
10	◎1920 x 1080	60	66.587	59.934	P	N	138.50	Windows

Note: P: positive, N: negative, ◎: Primary mode

Resolution through RGB Input

If your PC supports VESA Reduce Blanking timing via the VGA card drive program (usually offered by the VGA Card Manufacturer), your TV set is equipped to have the 1920x1080 resolution display through this connection using the following timing 138.5MHz. The following parameters are often the values required by the software or programs to set up the display:

Parameters	Horizontal Values (Pixels)	Vertical Values (Lines)
Address	1920	1080
Front Porch	48	3
Sync Width	32	5
Back Porch	80	23
Total	2080	1111
Frequency	66.587 KHz	59.934 Hz
Sync Polarity	P	N
Pixel Rate (MHz)	138.5	
Refresh Rate (Hz)	60	

Warranty

ONE-YEAR LIMITED WARRANTY 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 its products against defects in materials and workmanship for a period of one year of non-commercial usage and ninety (90) days of commercial use. If a VIZIO product is defective within the warranty period, VIZIO will either repair or replace the unit at its sole option and discretion.

To obtain warranty service, contact VIZIO Technical Support via email: TechSupport@VIZIO.com or via phone at 877 MY VIZIO (877.698.4946) from 6:00AM to 9:00PM Monday through Friday and 8:00AM to 4:00PM Saturday and Sunday, Pacific Time, or visit www.VIZIO.com. Proof of purchase in the form of a purchase receipt or copy thereof is required.

Parts and Labor

There will be no charge for parts or labor during the warranty period. Replacement parts and units may be new or recertified at VIZIO's option and sole discretion. Replacement parts and units are warranted for the remaining portion of the original warranty or for ninety (90) days from warranty service or replacement, whichever is later.

Types of Service

Units 30" or larger will usually be serviced in-home. In-home service requires complete and easy access to the unit and does not include de-installation or re-installation of the product. However, in some cases, it may be necessary to send the unit to a VIZIO service center. VIZIO will cover the transportation charges to and from the same customer location.

Units less than 30" must be sent to a VIZIO service center. 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 UNIT IN FOR SERVICE.

Any returns to VIZIO's service centers must utilize either the original carton box and shipping material or a replacement box and material provided by VIZIO. VIZIO technical support will provide instructions for packing and shipping the unit to the VIZIO service center.

Limitations and Exclusions

VIZIO's one-year limited warranty only covers defects in materials and workmanship. Items not covered include but are not limited to cosmetic damage, normal wear and tear, misuse, signal issues, power surges, and damages from shipping, acts of God, any sort of customer misuse, installation, customer modifications, adjustments, and set-up issues. Units with unreadable or removed serial numbers, "image burn-in", and routine maintenance are not covered. This 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 SHALL IN NO EVENT EXCEED THE PURCHASE PRICE OF THE DISPLAY. VIZIO SHALL NOT BE RESPONSIBLE FOR LOSS OF USE, 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.

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