



**Dear VIZIO Customer,**

Congratulations on your new VIZIO E420VL, E470VL, or E550VL 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](http://www.VIZIO.com).

To purchase or inquire about accessories and installation services for your VIZIO HDTV, visit our website at [www.VIZIO.com](http://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](http://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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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:
  - o The power cord fails or frays.
  - o Liquid sprays or any object drops into your HDTV.
  - o Your HDTV is exposed to rain or other moisture.
  - o Your HDTV is dropped or damaged in any way.
  - o 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.

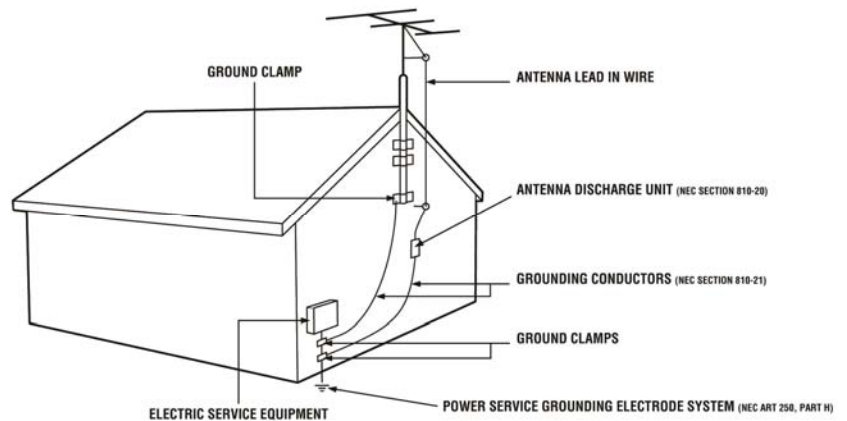
Article 810 of the National Electrical Code, ANSI/NFPA 70, provides information with regard to proper grounding of the mast and supporting structure, grounding of the lead-in wire to an antenna discharge unit, size of the grounding conductors, location of antenna discharge unit, connection to grounding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

### Lightning Protection

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

### Power Lines

Do not locate the antenna near overhead light or power circuits, or where it could fall into such power lines or circuits.



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

## 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](mailto: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 E420VL or E470VL or E550VL
- VIZIO remote control VR15 (E420VL only)
- VIZIO remote control VUR13 (E470VL and E550VL only)
- AA batteries for the VR15 remote control (2)
- AAA batteries for the VUR13 remote control (2)
- Power cord
- Detachable base with thumbscrew (E420VL 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](http://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 (E420VL); 134W (E470VL); 138W (E550VL) 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](http://www.VIZIO.com).

## Attaching the E420VL TV Stand

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

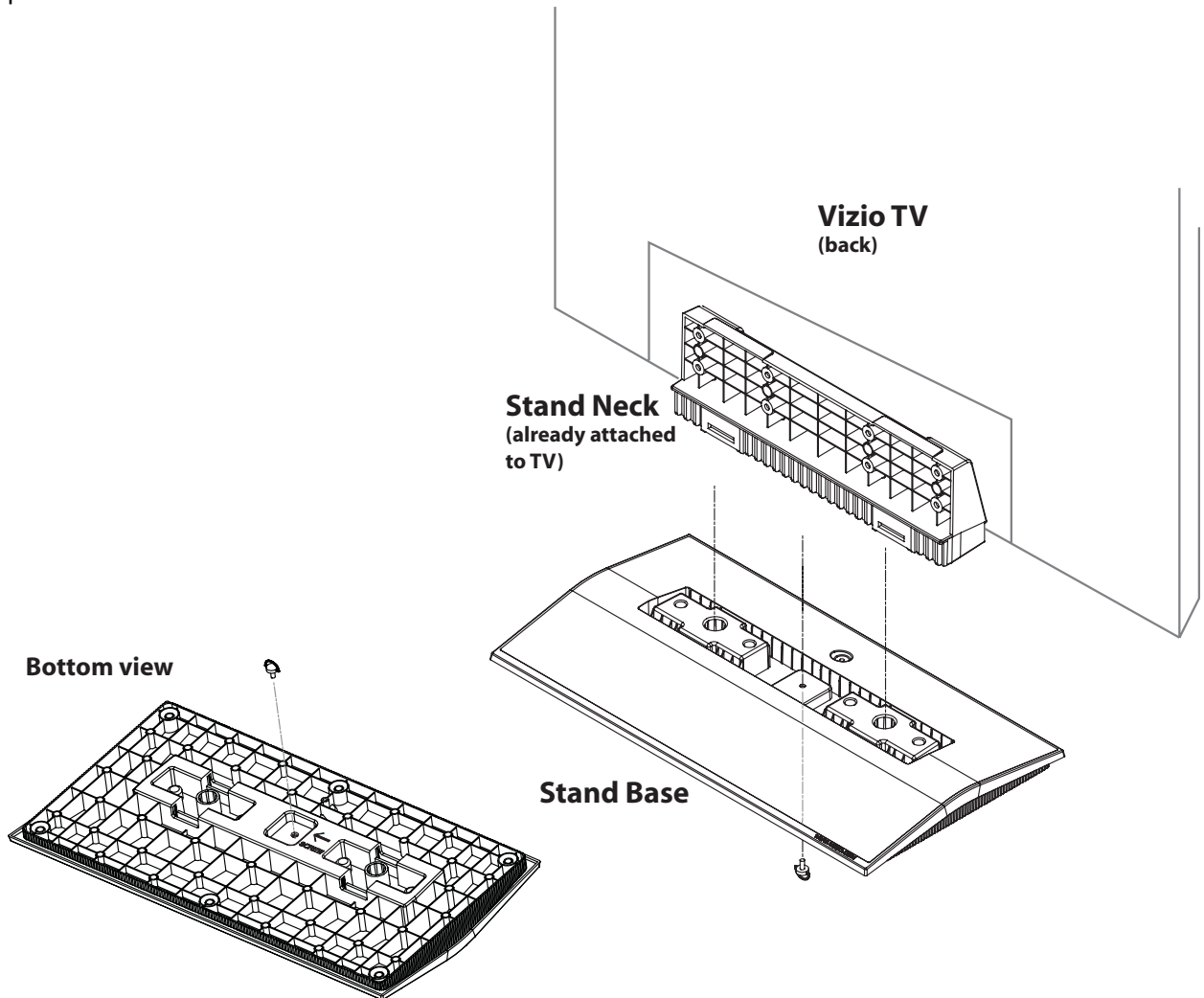
### Unpack the TV and stand base:

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.

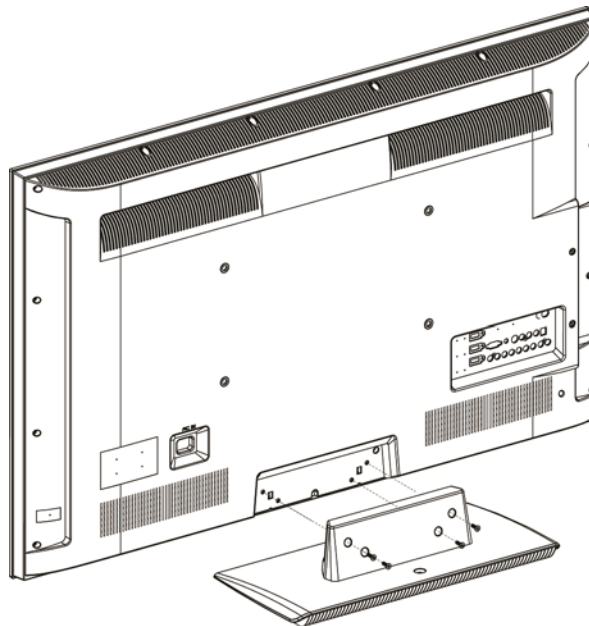
### Unpack the TV and stand base:

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 (E420VL & 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 (E550VL)

|              |                                    |
|--------------|------------------------------------|
| Screw Size   | M8                                 |
| Screw Length | 25 mm                              |
| Screw Pitch  | 1.25 mm                            |
| Hole Pattern | VESA standard 400 x 200 mm spacing |

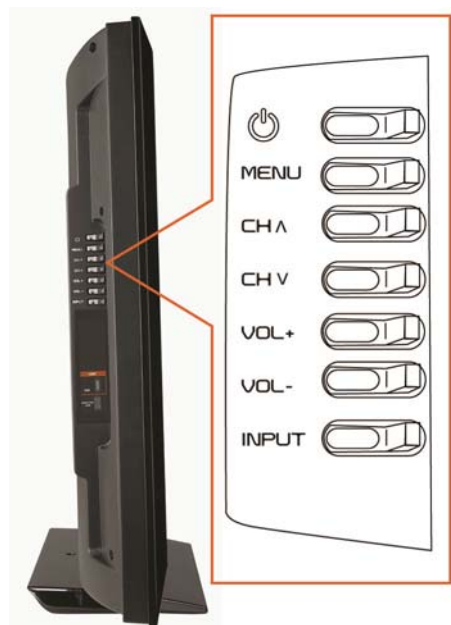
## Chapter 2 Basic Controls and Connections

### 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.

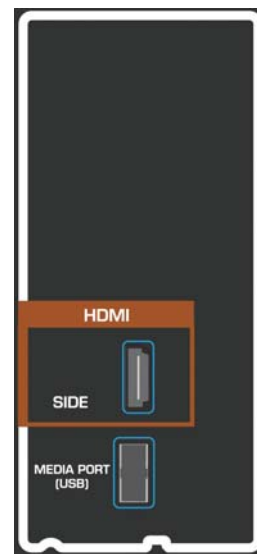
Additionally, when the OSD is active, this button confirms the menu function to be adjusted.

### Side Panel Connection

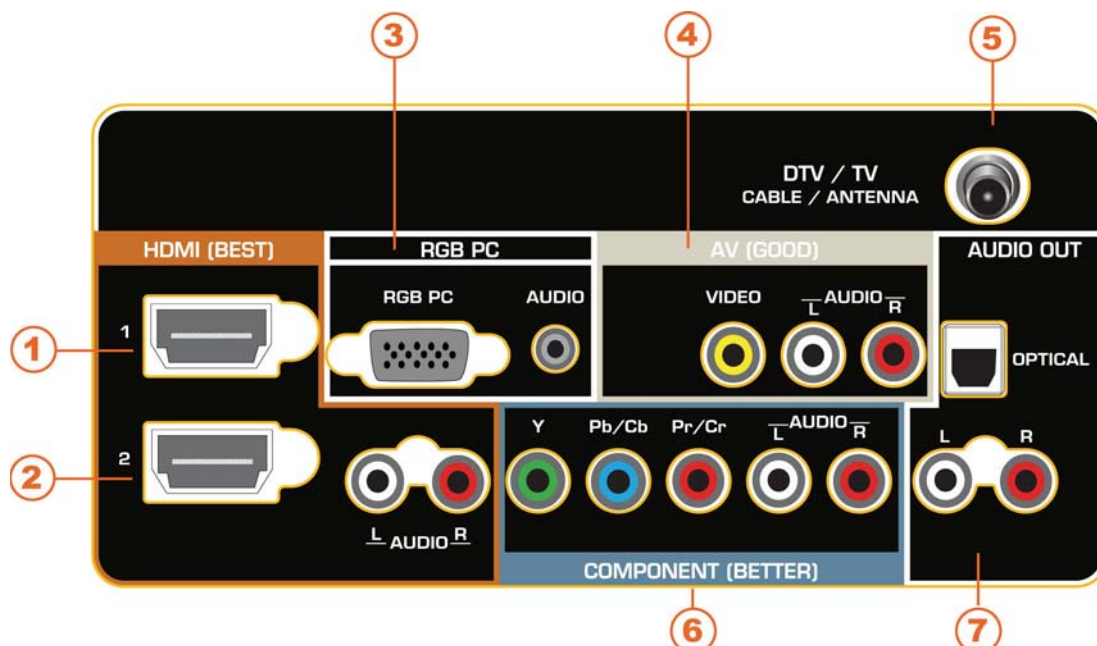
**HDMI**—Connect digital video devices such as a DVD player or Set-Top Box through this all digital connector. There are additional HDMI connectors on the back.

**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](http://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](http://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.

## E420VL 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 & E550VL 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.
- II (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.

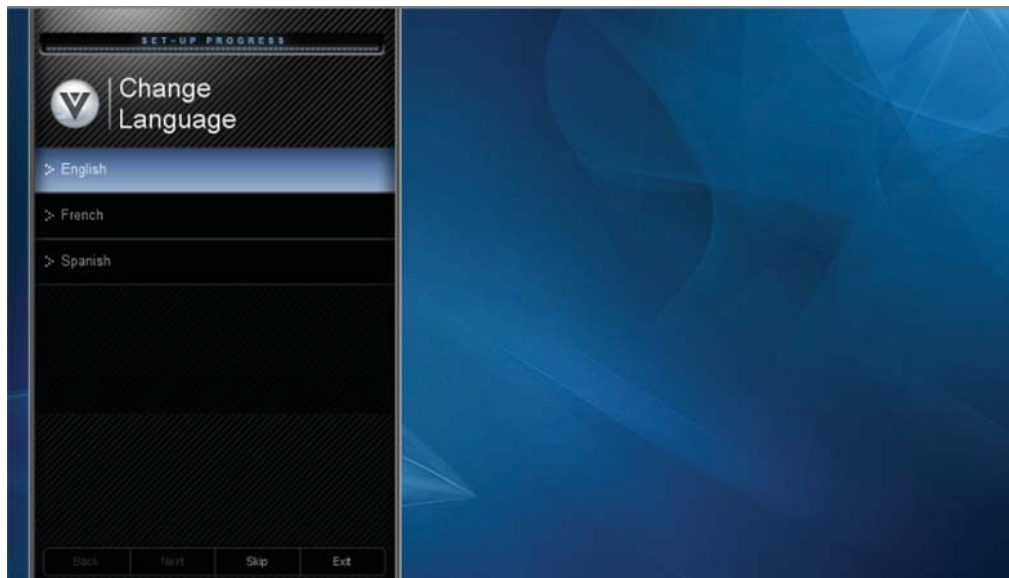
- **(DASH)**—Press to insert a dash between the main and sub-channels. For example, channel 28-2 would be selected by the button sequence 2, 8, DASH, 2.



## 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 you 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.

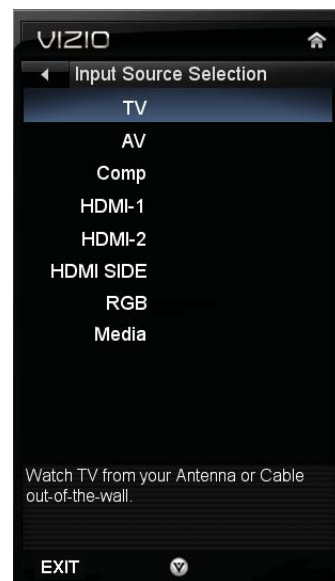
### Watching a TV Program

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:

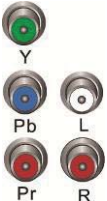
|                                                                                                                                                                                                                            |           |        |           |           |         |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------|--------|-----------|-----------|---------|
| Time Warp: Mouse Trap                                                                                                                                                                                                      |           |        | Ch 50-123 | KCAL DTV  | CABLE   |
| 11:00 AM - 12:00 AM                                                                                                                                                                                                        | TV-PG (V) | CC-OFF | ENGLISH   | DOLBY 5.1 | 720p HD |
| In this hour-long special, the Time Warp team runs off to join the circus with trap-testing Rev. Tommy Gunn and with high-flying Cirque du Soleil, explore their inner stuntmen, and put everything but wood in a chipper. |           |        |           |           |         |



## 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)                           | <br>HDMI                | <b>HDMI</b> 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)<br>-----<br>Good (analog) |                         | Connect your <b>antenna</b> or <b>coaxial</b> cable to watch TV programming. This cable usually comes from your cable box or right out of the wall.                                                                                                                                                                                                                             |
| Best (analog)                            | <br>VGA                 | The <b>RGB (VGA)</b> port allows you to connect your computer so you can use the TV as your monitor.                                                                                                                                                                                                                                                                            |
| Better (analog)                          | <br>Y<br>Pb L<br>Pr R | <b>Component</b> 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)                            | <br>VIDEO<br>L<br>R   | <b>Composite</b> 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 Component. 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](http://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](http://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:

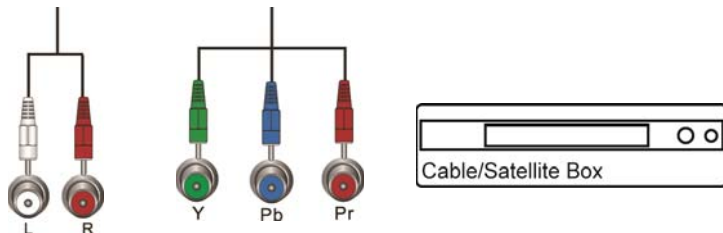
- The HDMI input on your HDTV supports High-bandwidth Digital Content Protection (HDCP). HDCP encrypts the transmission between the video source and the digital display for added security and protection.
- Refer to your cable/satellite Set-Top box user manual for more information about the video output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

### HDMI Connections for Cable or Satellite Boxes with DVI



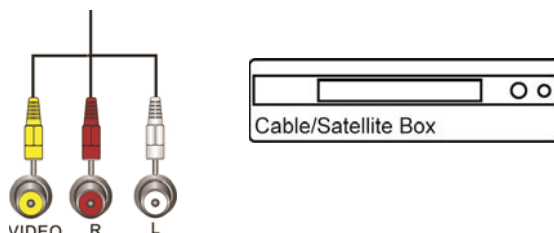
1. Turn off the power to your HDTV and HDTV cable/satellite box.
2. Using a HDMI-DVI cable, connect the DVI end to your cable/satellite box and the HDMI end to the **HDMI 2** jack on your HDTV.
3. Connect the audio cables (white and red) from the DVI audio output jacks on the cable/satellite box to the **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)

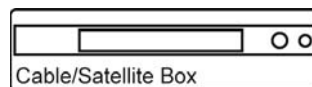


1. Turn off your HDTV and Set-Top box.
2. Connect the video cable (yellow) from your Set-Top box to the **AV** jack (yellow) on your HDTV.
3. Connect the audio cables (white and red) on your Set-Top box to the **AV L** and **R AUDIO** jacks on your HDTV.
4. Turn on your HDTV and Set-Top box.
5. Select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

## Using Coaxial (Antenna) (Good)



COAXIAL



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](http://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:

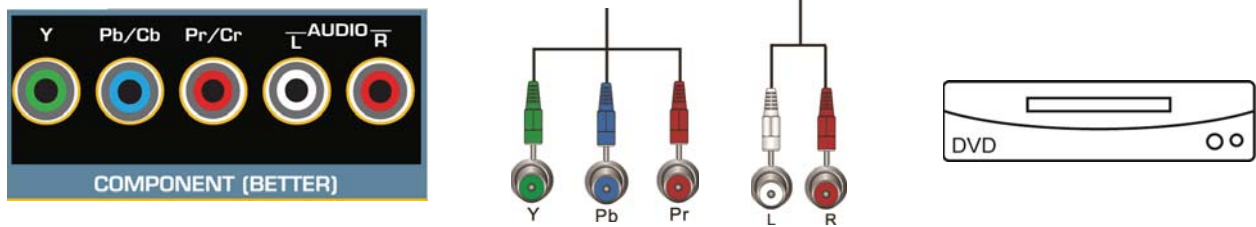
- The HDMI input on your HDTV supports High-bandwidth Digital Content Protection (HDCP). HDCP encrypts the transmission between the video source and the digital display for added security and protection.
- Refer to your DVD player user manual for more information about the video output requirements.

### HDMI Connections for DVD Players with DVI



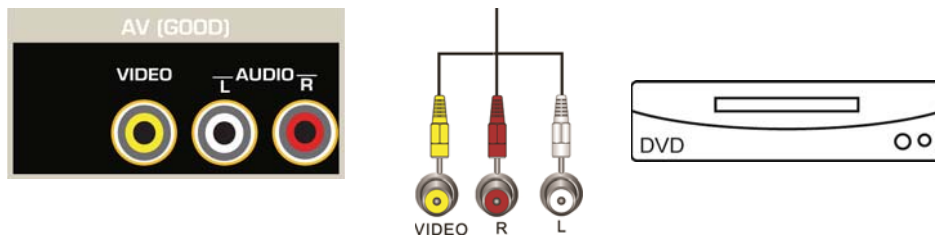
1. Turn off your HDTV and DVD player.
2. Using a HDMI-DVI cable, connect the DVI end to your DVD player and the HDMI end to the **HDMI 2** Jack on your HDTV.
3. Connect the audio cables (white and red) from the DVI audio output jacks on the DVD player to the **HDMI 2 L** and **R AUDIO** jacks on your 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.

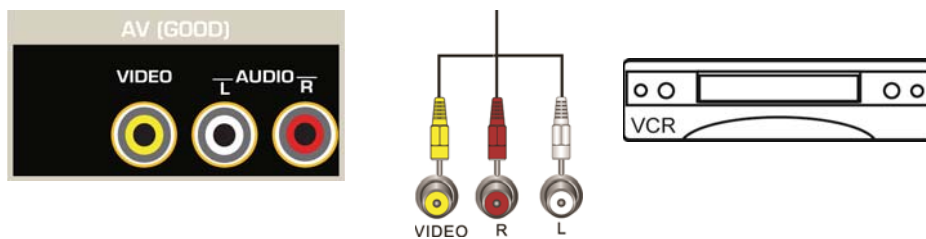
## Connecting Coaxial (RF)

### 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

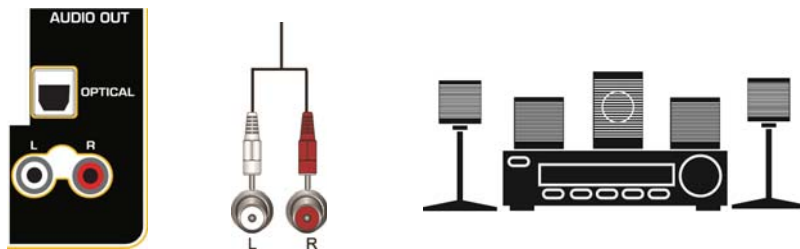


**Note:** Refer to your VCR or Video Camera user manual for more information about the video output requirements of the product.

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

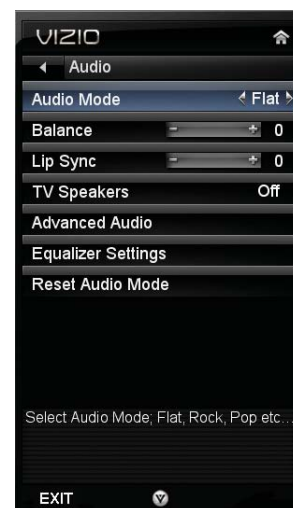
### Using RCA



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)

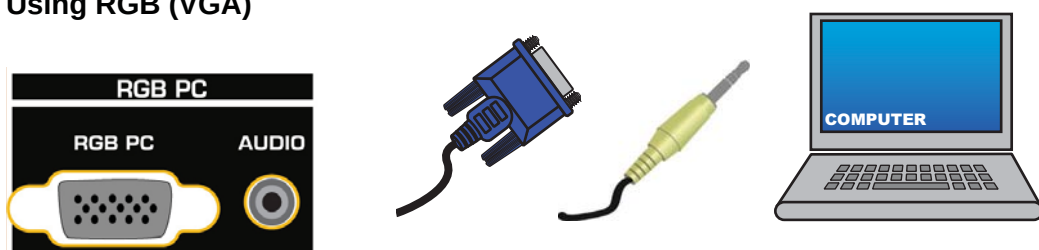


If your sound system has a S/PDIF (optical) digital audio input you can connect it from your sound system to the **OPTICAL** digital audio out on your HDTV. This is active when receiving audio with the programs being viewed no matter what input is being used.

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

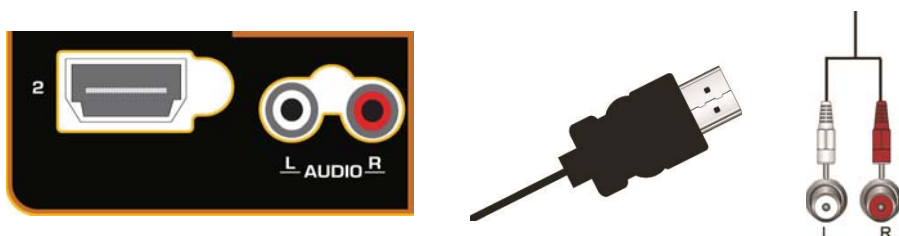
### Using RGB (VGA)



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

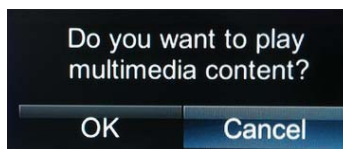
Connect a USB flash drive to the USB port on your HDTV to view pictures.

- 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.

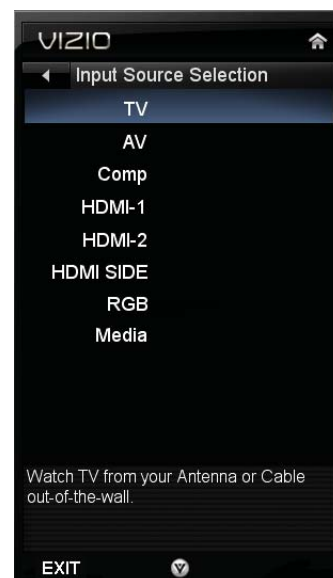
**Note:** Some of the main menu options may have additional submenus, for example, the TV Rating submenu for Parental Controls.

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*.

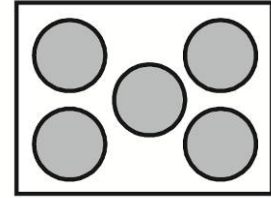


## Wide Menu

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

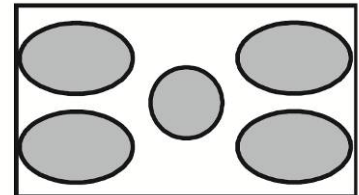
Wide mode allows you to view the entire picture. This is recommended for HDMI and RGB (Computer) viewing so you can see the complete picture without the image overstretching beyond the viewing area. For 720p, 1080i, 1080p only.

### 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.

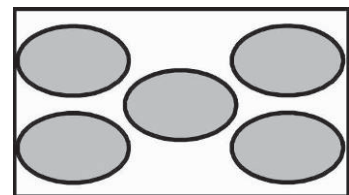
### Panoramic

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**.

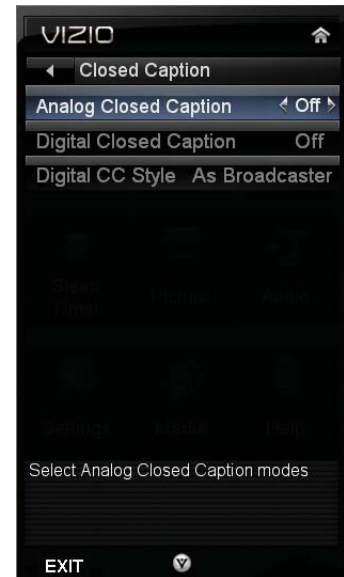
### Digital Closed Caption

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.

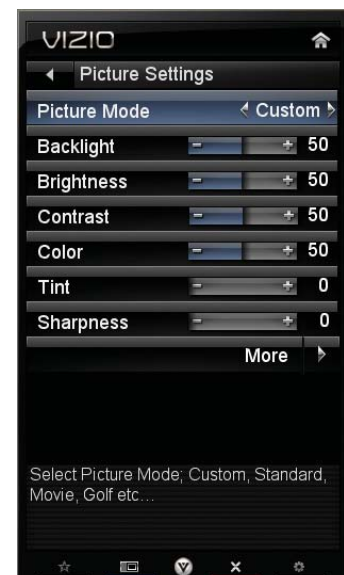
### Backlight

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.

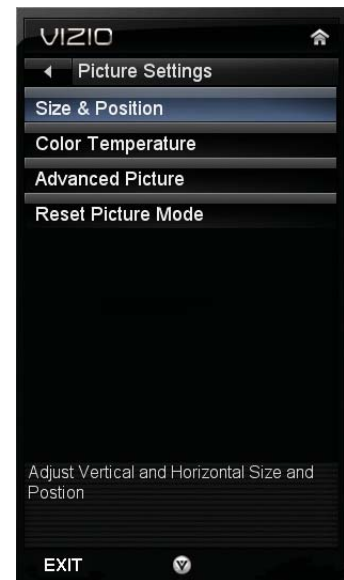
**Note:** The *More* menu is only available when *Picture Mode* is set to **Custom**.

### 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**

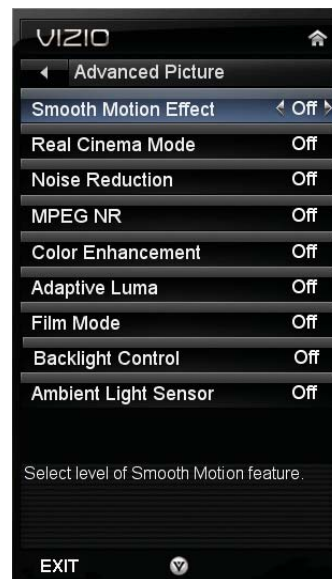
Choose from **Off** or **Auto**. When set to **Off** it will stay at 60 fps. When set to **Auto**, the TV will detect the cadence (for example at 24 frames/second for film, or normal video at 60 fps).

- **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<br>MAIN    |    |                   |           |                               |                   |
|----------------|----|-------------------|-----------|-------------------------------|-------------------|
|                | TV | AV<br>(Composite) | Component | HDMI-1<br>HDMI-2<br>HDMI SIDE | RGB<br>(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

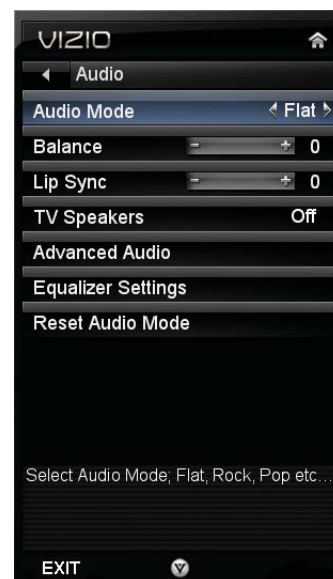
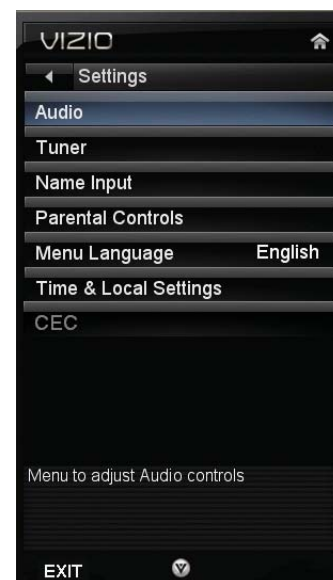
Adjust the sound to the left or the right.

#### 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.

**Note:** When SRS TruSurround HD is ON, Equalizer adjustments are not available.

- **SRS TruVolume**

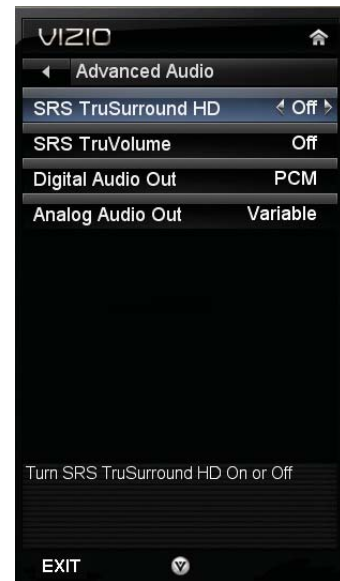
When the programming switches to a commercial or when changing from channel to channel, volume fluctuations occur. When turned ON, SRS TruVolume™ provides the listener with a comfortable and consistent volume level. Turn this option off when listening to music.

- **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.

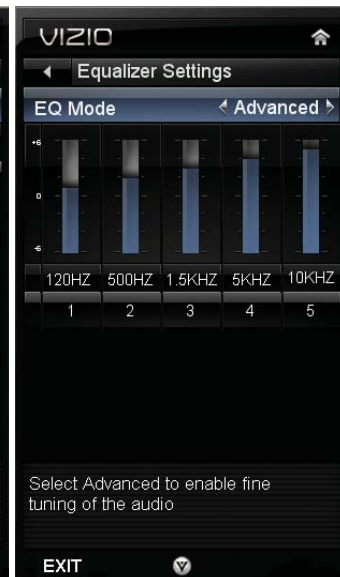
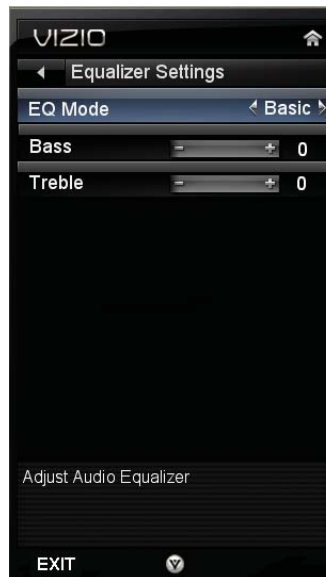
- **EQ Mode (Advanced)**

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

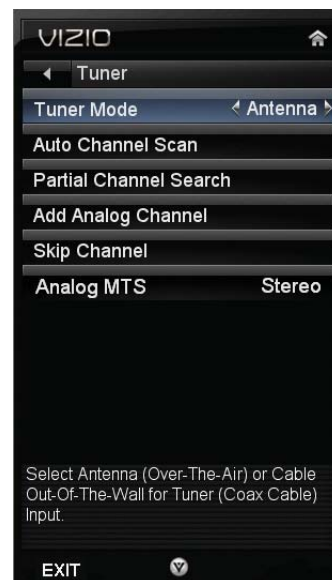
If you are in fringe/marginal reception areas or you want to receive local broadcasts where *Auto Channel Search* may not pick up the signals you can manually add channels. Press **OK** and a new menu will open. Enter the channel number, press ▼ to select *Add Channel*, and then press **OK** to add the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

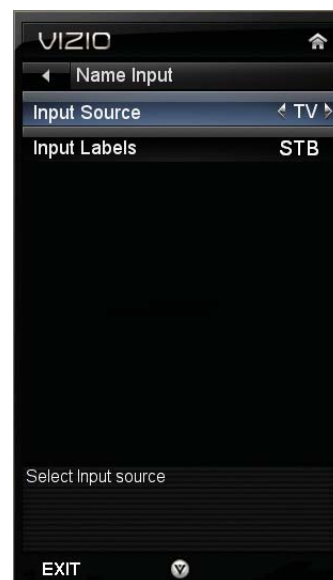


## Name Input

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.

To select the options in the Parental sub-menu, press **OK** and then create and/or enter a password. A new menu will be displayed showing the following Parental settings:

**Note:** The Parental menu does not appear when the input mode is set to HDMI or RGB.

### Rating Enable

This feature does not operate on this TV.

### Channel Locks

Block individual channels from being displayed.



## USA-TV

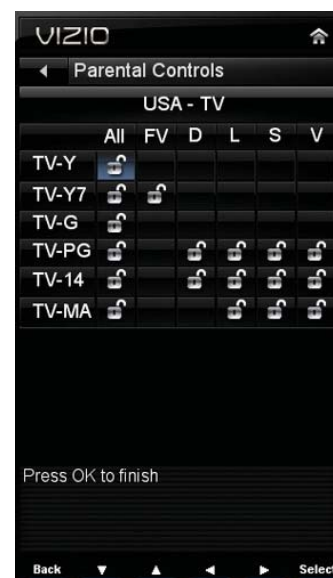
**Note:** When Rating Enable is **OFF**, the USA-TV Rating adjustments are not available.

Press **OK** to block (locked) or allow (unlocked) channels by the following US TV ratings:

- 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.

Press the **OK** button to block (locked) or allow (unlocked) channels by the following US Movie ratings:

- 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.

Press the **OK** button to block (locked) or allow (unlocked) channels by the following Canadian English ratings:

- 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.

Press the **OK** button to block (locked) or allow (unlocked) channels by the following Canadian French ratings:

- 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 is reserved for future use in the event the parental control system is ever updated. Your HDTV will be able to receive and update the new rating system to it.

## Block Unrated TV

Block programming that does not have a rating.

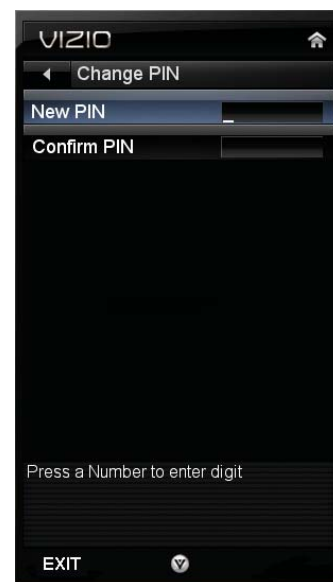
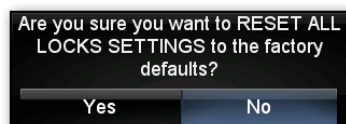
## Change PIN (Password)

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

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 you 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.

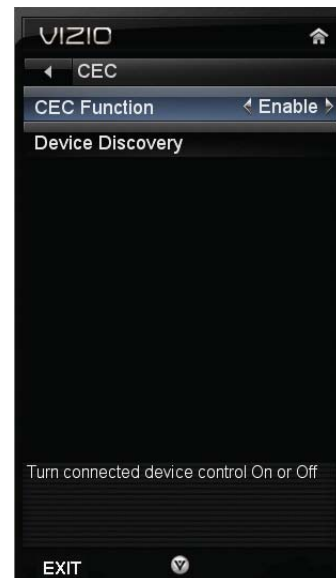
Contact your devices' user manual or manufacturer to check whether your device supports CEC.

### 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.

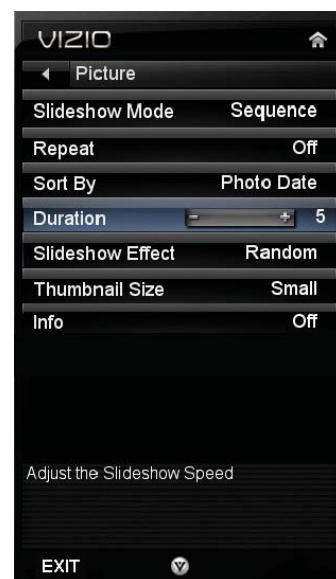
- **Single** will display one picture selected from the thumbnails for the interval set in the *Duration* option and return to the thumbnails. If the *Repeat* option is set to **On**, the selected picture will be displayed until you press **EXIT**.
- **Sequence** will show your pictures in the order 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 **E550VL** 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.

#### Notes:

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

### 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.

### 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.

### 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         |  |

### 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 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 10195, 888, 10462                                                                    | Asberg 10353                                                                                                                                                                                                                           | Bush 10348, 10352, 10353                                                                                                                                                                                      |
| A.R. Systems 10352                                                                      | Astar 10163                                                                                                                                                                                                                            | byd:sign 10214                                                                                                                                                                                                |
| Abex 10065, 10256                                                                       | Atlantic 10353                                                                                                                                                                                                                         | Caihong 10360, 10362, 10368, 10457, 10460                                                                                                                                                                     |
| ACE 10449                                                                               | Audinac 10234, 10278                                                                                                                                                                                                                   | Cailing 10464                                                                                                                                                                                                 |
| Acer 10164                                                                              | Audiosonic 10352, 10353                                                                                                                                                                                                                | Caixing 10366, 10367, 10378, 10380, 10390, 10461                                                                                                                                                              |
| Addison 10048, 10231                                                                    | Audiovox 10054, 10099, 10231, 10234, 10248, 10280, 10287, 10326                                                                                                                                                                        | Candle 10047, 10049, 10050, 10066, 10229, 10254, 10261, 10265                                                                                                                                                 |
| Admiral: 10045, 10078, 10232, 10236                                                     | Aventura 10042                                                                                                                                                                                                                         | Carena 10353                                                                                                                                                                                                  |
| Advent 10221, 10291                                                                     | Awa 10048, 10351                                                                                                                                                                                                                       | Carnivale 10229, 10254                                                                                                                                                                                        |
| Adventura 10066, 10261                                                                  | Axion 10154, 10326                                                                                                                                                                                                                     | Carver 10034, 10044, 10271                                                                                                                                                                                    |
| Aiko 10053, 10231                                                                       | Baihehua 10461                                                                                                                                                                                                                         | Cascade 10353                                                                                                                                                                                                 |
| Aim 10353                                                                               | Baihua 10460, 10462                                                                                                                                                                                                                    | Casio 10353                                                                                                                                                                                                   |
| Aiwa 10178, 10207                                                                       | Baile 10458, 10460                                                                                                                                                                                                                     | Cathay 10353                                                                                                                                                                                                  |
| Akai 10027, 10046, 10127, 10153, 10196, 10229, 10238, 10240, 10254, 10267, 10304, 10353 | Bang & Olufsen 10244                                                                                                                                                                                                                   | Caton 10355                                                                                                                                                                                                   |
| Akiba 10353                                                                             | BaoHuaShi 10462                                                                                                                                                                                                                        | CCE 10246, 10258, 10353                                                                                                                                                                                       |
| Akito 10348, 10353                                                                      | Baosheng 10457, 10460                                                                                                                                                                                                                  | Celebrity 10046                                                                                                                                                                                               |
| Akura 10277, 10353                                                                      | Barco 10282                                                                                                                                                                                                                            | Celera 10075                                                                                                                                                                                                  |
| Alaron 10246, 10273, 10275                                                              | Basic Line 10352, 10353                                                                                                                                                                                                                | Centurion 10051, 10353                                                                                                                                                                                        |
| Alba 10353                                                                              | Baur 10249, 10281, 10353                                                                                                                                                                                                               | Changcheng 10357, 10360, 10362, 10363, 10364, 10366, 10367, 10368, 10369, 10370, 10371, 10372, 10373, 10374, 10376, 10378, 10379, 10380, 10384, 10385, 10392, 10448, 10455, 10457, 10458, 10460, 10461, 10462 |
| Albatron 10219, 10222, 10286                                                            | Baysonic 10234                                                                                                                                                                                                                         | Changfei 10360, 10362, 10368, 10379, 10457, 10460, 10467                                                                                                                                                      |
| Alfide 10240                                                                            | Beijing 10358, 10360, 10362, 10364, 10365, 10366, 10367, 10368, 10369, 10370, 10371, 10372, 10373, 10374, 10376, 10377, 10378, 10379, 10380, 10383, 10384, 10385, 10392, 10394, 10428, 10431, 10448, 10457, 10458, 10460, 10461, 10462 | Changfeng 10360, 10367, 10376, 10381, 10382, 10384, 10385, 10392, 10457, 10462                                                                                                                                |
| Alleron 10055                                                                           | Belcor 10047, 10252                                                                                                                                                                                                                    | Changhai 10360, 10362, 10368, 10457, 10460, 10467                                                                                                                                                             |
| Allstar 10353                                                                           | Bell & Howell 10045                                                                                                                                                                                                                    | Changhong 10075, 10356, 10358, 10359, 10360, 10361, 10362, 10369, 10371, 10376, 10383, 10386, 10387, 10388, 10389, 10393, 10394, 10412, 10427, 10433, 10436, 10448, 10457, 10460                              |
| A-Mark 10248                                                                            | Benq 10116, 10159, 10226, 10300                                                                                                                                                                                                        | Chaparral 10442                                                                                                                                                                                               |
| America Action 10234                                                                    | Beon 10353                                                                                                                                                                                                                             | Chengdu 10360, 10368, 10457                                                                                                                                                                                   |
| Ampro 10220, 10289                                                                      | Bestar 10352, 10353                                                                                                                                                                                                                    | Chimei 10217                                                                                                                                                                                                  |
| Amstrad 10279, 10353                                                                    | Bestar-Daewoo 10352                                                                                                                                                                                                                    | Ching Tai 10231                                                                                                                                                                                               |
| Amtron 10054                                                                            | Blaupunkt 10281                                                                                                                                                                                                                        | Chun Yun 10222, 10231, 10234, 10329, 10342                                                                                                                                                                    |
| Anam 10234                                                                              | Blue Sky 10282, 10353                                                                                                                                                                                                                  |                                                                                                                                                                                                               |
| Anam National 10054, 10264                                                              | Boots 10348                                                                                                                                                                                                                            |                                                                                                                                                                                                               |
| Anhua 10455                                                                             | Boxlight 10290                                                                                                                                                                                                                         |                                                                                                                                                                                                               |
| Anitech 10353                                                                           | BPL 10275, 10353                                                                                                                                                                                                                       |                                                                                                                                                                                                               |
| AOC 10047, 10048, 10049, 10112, 10229, 10248, 10252, 10254, 10263, 10274, 10316         | Bradford 10054, 10234                                                                                                                                                                                                                  |                                                                                                                                                                                                               |
| Aolinpiya 10462                                                                         | Brilliant 10160                                                                                                                                                                                                                        |                                                                                                                                                                                                               |
| Aolinpu 10465                                                                           | Brinkmann 10353                                                                                                                                                                                                                        |                                                                                                                                                                                                               |
| Apex 10075, 10095, 10233                                                                | Brockwood 10047, 10252                                                                                                                                                                                                                 |                                                                                                                                                                                                               |
| Apex Digital 10288                                                                      | Broksonic 10078, 10234, 10236, 10248                                                                                                                                                                                                   |                                                                                                                                                                                                               |
| Archer 10248                                                                            |                                                                                                                                                                                                                                        |                                                                                                                                                                                                               |
| Archos 10156                                                                            |                                                                                                                                                                                                                                        |                                                                                                                                                                                                               |
| Ardem 10353                                                                             |                                                                                                                                                                                                                                        |                                                                                                                                                                                                               |
| Aristona 10353                                                                          |                                                                                                                                                                                                                                        |                                                                                                                                                                                                               |

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Chung Hsin 10048, 10234,  
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Citizen 10047, 10049, 10050,  
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Clarion 10234  
Clarivox 10353  
Clatronic 10353  
Coby 10108  
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Colt 10344  
Commercial Solutions 10230  
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Cosmel 10353  
Craig 10054, 10234  
Crosley 10034, 10044, 10076  
Crown 10054, 10058, 10234,  
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Crown Mustang 10240  
CTX 10115  
Curtis Mathes 10016, 10027,  
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CyberHome 10294  
Cytron 10152, 10310  
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Desmet 10353  
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Donglin 10391  
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Dwin 10232, 10293  
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Ectec 10278  
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Elin 10353  
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| GoldStar 10047, 10048, 10049, 10052, 10064, 10065, 10229, 10252, 10254, 10256, 10272, 10346, 10353                                                             | Hisense 10121, 10288, 10338, 10350, 10356, 10358, 10361, 10368, 10381, 10382, 10386, 10395, 10396, 10397, 10400, 10401, 10407, 10408, 10416, 10417, 10418, 10419, 10426, 10428, 10431, 10459 | InFocus 10125, 10290                                                                                                                                      |
| Goodmans 10352, 10353                                                                                                                                          | Hitachi 10047, 10048, 10049, 10052, 10131, 10184, 10239, 10256, 10265, 10324, 10353                                                                                                          | Initial 10151, 10320                                                                                                                                      |
| Gradiente 10036, 10118, 10265, 10271                                                                                                                           | Hitachi Fujian 10048, 10457, 10459, 10461, 10462                                                                                                                                             | Innova 10258                                                                                                                                              |
| Granada 10048, 10275, 10353                                                                                                                                    | Hornophone 10353                                                                                                                                                                             | Insignia 10141, 10142, 10143, 10181, 10310                                                                                                                |
| Grandin 10352, 10353                                                                                                                                           | Hongmei 10359, 10360, 10362, 10366, 10367, 10368, 10376, 10378, 10380, 10385, 10386, 10387, 10392, 10457, 10460, 10461, 10462                                                                | Inteq 10228                                                                                                                                               |
| Great Wall 10349                                                                                                                                               | Hongyan 10457, 10462                                                                                                                                                                         | Interbuy 10353                                                                                                                                            |
| Grundig 10240, 10258, 10266, 10281, 10353                                                                                                                      | Hotel TV 10447                                                                                                                                                                               | Interfunk 10353                                                                                                                                           |
| Grunpy 10054, 10055, 10234, 10273                                                                                                                              | HP 10301                                                                                                                                                                                     | Internal 10353                                                                                                                                            |
| Haier 10139, 10148, 10174, 10209, 10227, 10247, 10354, 10380, 10395, 10396, 10399, 10403, 10404, 10414, 10416, 10417, 10418, 10419, 10421, 10423, 10424, 10466 | Huafa 10460                                                                                                                                                                                  | Intervision 10277, 10353                                                                                                                                  |
| HaiHong 10362, 10368, 10369, 10370, 10371, 10372, 10373, 10391, 10395, 10448, 10460                                                                            | Huanghaimei 10362, 10368, 10460                                                                                                                                                              | IR 10351, 10352, 10353                                                                                                                                    |
| Haile 10375                                                                                                                                                    | Huanghe 10360, 10362, 10366, 10367, 10368, 10378, 10380, 10383, 10395, 10406, 10457, 10460, 10461                                                                                            | Irradio 10353                                                                                                                                             |
| Haiyan 10360, 10366, 10367, 10376, 10378, 10380, 10384, 10385, 10392, 10457, 10461, 10462                                                                      | Huanglong 10362, 10368, 10460                                                                                                                                                                | IRT 10280, 10284                                                                                                                                          |
| Hallmark 10047, 10049, 10272                                                                                                                                   | Huangshan 10360, 10362, 10366, 10367, 10368, 10375, 10376, 10378, 10380, 10384, 10385, 10392, 10457, 10460, 10461, 10462                                                                     | Isukai 10353                                                                                                                                              |
| Hankook 10234, 10330, 10339                                                                                                                                    | Huanyu 10352, 10359, 10360, 10366, 10367, 10376, 10378, 10380, 10384, 10385, 10386, 10387, 10392, 10457, 10459, 10461, 10462                                                                 | ITS 10353                                                                                                                                                 |
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| Hanseatic 10353                                                                                                                                                | Huari 10462                                                                                                                                                                                  | Janeil 10066, 10261                                                                                                                                       |
| Hantarex 10313, 10353                                                                                                                                          | Humax 10197                                                                                                                                                                                  | JBL 10034, 10044, 10058                                                                                                                                   |
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| Harley Davidson 10260, 10273, 10324                                                                                                                            | Hypson 10277, 10353                                                                                                                                                                          | JCB 10046                                                                                                                                                 |
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## **Cable Box Codes (Including Cable / PVR Boxes)**

ABC 40030, 40031, 40032, 40034, 40053, 40107, 40126, 40127  
 Adelphia 40001  
 Allegro 40038  
 Antronix 40036, 40037  
 Apache 40124  
 Archer 40037, 40038, 40123  
 AT&T 40003  
 BBT 40129  
 Belcor 40125  
 Bell & Howell 40033  
 Bell South 40113  
 Cable Star 40125  
 Cable Vision 40005  
 Cabletenna 40036  
 Cableview 40035  
 Century 40038  
 Citizen 40038, 40118  
 Clearmaster 40112  
 ClearMax 40112  
 Colour Voice 40039  
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 Comtronics 40040

Contec 40041  
Coolmax 40112  
COX 40000  
Daeryung 40071  
Digi 40117  
Director 40007  
Dumont 40117  
Eastern 40042  
Emerson 40123  
Everquest 40040, 40108  
Focus 40111  
Garrard 40038  
GC Electronics 40037, 40125  
GE 40030, 40031  
Gehua 40007  
Gemini 40043, 40108, 40123  
General Instrument 40007, 40031, 40105  
GoldStar 40040, 40109  
Goodmind 40123, 40124  
Hamlin 40044, 40045  
Hitachi 40031  
Hytex 40126  
Illico 40119  
Jasco 40038, 40108  
Jerrold 40007, 40031, 40043, 40053, 40067, 40105, 40108  
LG 40116  
Linsay 40132  
Magnavox 40046  
MegaCable 40007  
Memorex 40047, 40107  
Motorola 40000, 40003, 40007, 40072, 40105  
Movie Time 40048  
Multitech 40112  
Multivision 40120  
NEC 40033  
NET Brazil 40070  
Nexus 40124  
Nova Vision 40121  
Novaplex 40134  
NSC 40048  
Oak 40041, 40126  
Pace 40006, 40110  
Panasonic 40051, 40107  
Panther 40117  
Paragon 40107  
Philips 40038, 40039, 40046

Pioneer 40002, 40049, 40071, 40109  
Popular Mechanics 40111  
Prelude 40124  
Proscan 40030, 40031  
Pulsar 40107  
Quasar 40107  
RadioShack 40108, 40112, 40123  
RCA 40035  
Realistic 40037  
Recoton 40111  
Regal 40045  
Regency 40042  
Rembrandt 40031  
Rogers 40119  
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Samsung 40006, 40040, 40049, 40069, 40109  
Scientific Atlanta 40001, 40002, 40003, 40034, 40071, 40106  
Signal 40040, 40043, 40108  
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SL Marx 40040  
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Standard Component 40050  
Starcom 40043, 40053, 40108  
Stargate 40040, 40043, 40108, 40123, 40124  
Starquest 40043, 40108  
StarSight 40131  
Supercable 40105  
Supermax 40112  
Sylvania 40127  
Tandy 40128  
Telecaption 40130  
TeleView 40040  
Texscan 40127  
TFC 40133  
Time Warner 40004  
Timeless 40040  
Tocom 40032  
Torx 40115  
Toshiba 40107  
Trans PX 40105  
Tristar 40112  
TS 40115  
Tusa 40043, 40108  
TV86 40048  
US Electronics 40105

Unika 40036, 40037, 40038  
United Artists 40126  
United Cable 40053  
Universal 40036, 40037, 40038, 40125  
V2 40112  
Videotron 40122  
View Star 40041, 40046, 40048  
Viewmaster 40112  
ViewStar 40128  
Vision 40112  
Vortex View 40112  
Zenith 40052, 40068, 40107, 40113  
Zentek 4011

### **Satellite Receiver Codes (Including Sat / PVR Boxes)**

AccessHD 40096  
Alpha Digital 40096  
AlphaStar 40064  
Apex Digital 40103  
Artec 40092  
CaptiveWorks 40088  
Channel Master 40097  
Chaparral 40056  
Coolsat 40089  
Coship 40093  
Crossdigital 40146  
Digital Stream 40102  
DirecTV 40014, 40015, 40016, 40017, 40018, 40019, 40020, 40023, 40024, 40025, 40028, 40029, 40054, 40055, 40077, 40078, 40079, 40135, 40136, 40138, 40141  
Dish Network System 40008, 40009, 40010, 40011, 40021, 40137, 40139, 40144  
Dishpro 40137, 40139, 40144  
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 Magnavox 40028, 40094  
 Memorex 40028  
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 Mitsubishi 40023, 40085  
 Motorola 40140, 40142  
 Next Level 40142  
 Panasonic 40017, 40083  
 Pansat 40086  
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 Pioneer 40016  
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 UltimateTV 40136  
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Viewsat 40087  
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## PVR Codes

ABS 20410  
 Alienware 20410  
 AT&T 20245  
 Bang & Olufsen 20412  
 CyberPower 20410  
 Dell 20410  
 DirecTV 20238, 20240, 20241, 20243, 20405, 20406, 20409, 20411  
 Dish Network 20408  
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 Howard Computers 20410  
 HTS 20408  
 Hughes Network Systems 20240, 20238, 20241, 20243, 20407  
 Humax 20238  
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 Blu-Ray DVD Player Codes  
 Denon 20143, 20144  
 Insignia 20142  
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 Marantz 20145, 20146  
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## DVD Player Codes

Accele Vision 20137  
 Accurian 20311  
 Advent 20288  
 Aiko 20348  
 Aiwa 20207  
 Akai 20161, 20282, 20317  
 Akishi 20349  
 Akustic 20348  
 Alco 20286  
 Allegro 20306  
 Alpine 20152  
 Amphion Media Works 20151, 20330  
 AMW 20151  
 Anam 20392  
 Aodeiong 20358  
 Apex 20024, 20025, 20026, 20027, 20085, 20111, 20300, 20301  
 Apple 20189  
 Arrgo 20307  
 Aspire 20209, 20290  
 Astar 20181  
 ATLM 20369  
 Audiovox 20106, 20116, 20286  
 Axion 20162  
 Bang & Olufsen 20302  
 Blaupunkt 20136, 20301

Blue Parade 20298  
 Bose 20076, 20086, 20393, 20394  
 BOSS 20138  
 Boston Acoustics 20331  
 Brand 20383  
 Broksonic 20007, 20282  
 Caixing 20389  
 California Audio Labs 20284  
 Cambridge Sound Works 20203  
 Caravell 20362  
 CAVS 20210  
 Changhong 20285, 20345  
 CineVision 20114, 20306  
 Clarion 20154  
 Classic 20131  
 Coby 20087, 20095, 20123, 20289  
 Conic 20370  
 Curtis 20095  
 Curtis Mathes 20308  
 CyberHome 20028, 20070, 20307, 20323, 20326  
 Cytron 20160  
 Daewoo 20093, 20306, 20317  
 Dayu 20388  
 DCS 20363  
 Denca 20367  
 Denon 20108, 20115, 20143, 20144, 20284  
 Desay 20185  
 Diamond Vision 20237  
 Dihe 20338  
 Ding Tian 20342  
 Disney 20090, 20096  
 Dual 20172  
 Durabrand 20309  
 DVD2000 20295  
 Dynex 20193  
 Eclipse 20126  
 Electrohome 20395  
 Emerson 20041, 20135, 20283, 20303, 20310  
 Enterprise 20303  
 ESA 20182, 20310  
 Fisher 20168, 20304  
 Funai 20310  
 Gateway 20327  
 GE 20082, 20296, 20301  
 Gewang 20361

GFM 20149  
 Giec 20355  
 Go Video 20306, 20327, 20396  
 GoldStar 20167  
 GPX 20112  
 Gradiente 20158, 20284  
 Greenhill 20301  
 Grundig 20297  
 Haier 20165, 20340  
 Haitai 20364  
 Haoji 20384  
 Harman/Kardon 20124, 20305  
 Hisense 20344  
 Hitachi 20013, 20232  
 Hiteker 20300  
 Huabao 20375  
 Huabaojamo 20334  
 iLive 20205  
 Ilo 20159  
 iLuv 20174  
 Initial 20159, 20301  
 Insignia 20142, 20150, 20164, 20202, 20310  
 Integra 20285, 20298  
 iSymphony 20190  
 Jamo 20206  
 JBL 20104, 20305  
 Jensen 20171, 20289, 20397  
 Jieke 20390  
 Jingewangpai 20375  
 Jingwei 20336  
 Jinwang 20377  
 Jugao 20359  
 JVC 20029, 20030, 20031, 20032, 20033, 20034, 20035, 20036, 20037, 20098, 20119, 20195, 20299  
 Jwin 20169, 20219  
 Kawasaki 20286  
 KEF 20398  
 Kennood 20386  
 Kenwood 20122, 20284  
 Ketai 20376  
 KLH 20286, 20301  
 Klipsch 20332  
 Konka 20316  
 Koss 20101, 20199, 20292  
 Lafayette 20351  
 Landel 20312

Lasonic 20155, 20220, 20399  
 Legend-V 20365  
 Lennox 20291, 20309  
 Lexicon 20314  
 LG 20091, 20100, 20117, 20132, 20180, 20303, 20306  
 Linshuma 20378  
 Liquid Video 20292  
 LiteOn 20102, 20235, 20236, 20311, 20327  
 Loewe 20313, 20320  
 Longzhapai 20354  
 Magnavox 20081, 20142, 20283, 20294, 20297, 20310  
 Malata 20346  
 Marantz 20145, 20146, 20297  
 Maxview 20368  
 McIntosh 20211  
 Memorex 20090, 20282  
 Microsoft 20296  
 Mintek 20159, 20301  
 Mitsubishi 20092, 20295  
 Mitsui 20353  
 Mitzu 20348  
 NAD 20156, 20333  
 Nakamichi 20170, 20400  
 Napa 20350  
 Nesa 20301  
 Next Base 20312  
 NexxTech 20187  
 Niro 20401  
 Norcent 20095, 20221  
 Okon 20385  
 Onkyo 20099, 20110, 20285, 20294  
 Oppo 20163, 20188  
 Oritron 20101, 20292  
 Other Brand 20373  
 Pai Gao 20360  
 Panasonic 20016, 20017, 20018, 20019, 20020, 20021, 20022, 20023, 20073, 20075, 20080, 20118, 20128, 20129, 20130, 20197, 20198, 20222, 20229, 20230, 20232, 20233, 20284, 20294  
 Panda 20379  
 Parasound 20212  
 Philco 20286, 20351  
 Philips 20006, 20040, 20041, 20081, 20294, 20297, 20314

Pioneer 20042, 20043, 20044, 20045, 20134, 20147, 20234, 20298  
 Polaroid 20027, 20133, 20208, 20402  
 Polk Audio 20297  
 Portland 20317  
 Power Sound 20348  
 Prima 20192, 20403  
 Primas 20335  
 Princeton 20315  
 Proceed 20300  
 Proscan 20082, 20296  
 Prottron 20213  
 Pye 20166  
 Qinghuatongfang 20382  
 Qisheng 20372  
 Qixing 20391  
 Qwestar 20101  
 RCA 20038, 20039, 20082, 20286, 20296, 20298, 20301  
 Regent 20291  
 Rio 20306  
 Rotel 20214, 20299  
 Rowa 20287  
 Royal 20351  
 Saba 20404  
 Sampo 20157, 20325, 20328  
 Samsung 20011, 20012, 20013, 20014, 20015, 20077, 20079, 20083, 20088, 20125, 20176, 20191, 20231, 20284  
 Sansui 20127, 20282  
 Sanyo 20200, 20282, 20304  
 Sast 20336  
 Sensory Science 20327  
 Shanshui 20374  
 Sharp 20120, 20139, 20140, 20141, 20204, 20328  
 Sharper Image 20323  
 Sherwood 20203, 20317  
 Shinco 20136  
 Shinsonic 20159, 20293  
 Shumaling 20337  
 Sigma Designs 20315  
 Skyworth 20375  
 Sonashi 20356  
 Sonic Blue 20306, 20396  
 Sonico 20352

Sony 20000, 20001, 20002, 20003, 20004, 20005, 20071, 20074, 20078, 20084, 20089, 20177, 20178, 20179, 20194, 20223, 20224, 20225, 20293  
 Sowa 20347  
 Spectroniq 20215  
 Sungale 20184  
 Superscan 20103, 20283  
 Supersonic 20351  
 SVA 20319  
 Sylvania 20041, 20103, 20148, 20149, 20283, 20310, 20329  
 Symphonic 20103, 20183  
 Tatung 20366  
 TCL 20371  
 Teac 20136, 20286  
 Technics 20284  
 Techwood 20153  
 Terapin 20321  
 Theta Digital 20298  
 Tianli 20343  
 Toshiba 20006, 20007, 20008, 20009, 20010, 20072, 20105, 20109, 20121, 20196, 20226, 20227, 20228, 20282, 20294  
 Tredex 20318  
 Trutech 20186, 20218  
 Tsinghuatongfang 20357  
 Tview 20173  
 Urban Concepts 20294  
 US Logic 20159  
 Venturer 20201, 20286  
 Victor 20380  
 Vizio 20322, 20324, 22000  
 Vocopro 20175, 20216  
 VocoStar 20217  
 Wanbao 20355  
 Wanyan 20346  
 Weifa 20381  
 Westinghouse 20113  
 Xbox 20296  
 Xianpai 20338  
 Xindai 20387  
 Yamaha 20016, 20107, 20284, 20297  
 YMT 20356  
 Youbishen 20341  
 Yuxing 20339  
 Zenith 20091, 20094, 20097, 20294, 20303, 20306

## **Amplifier / Receiver / Tuner Codes**

Accurian 30164  
 ADA 30165  
 ADC 30133  
 Adcom 30104  
 Aiwa 30087, 30162, 30260  
 Alco 30139  
 Altec Lansing 30166  
 AMC 30167  
 Amphion Media Works 30140, 30145  
 Amplifier Technologies 30200  
 AMW 30140  
 Anam 30135, 30149  
 Antex 30168  
 Apex 30099  
 Apple 30169  
 Aragon 30201  
 Atlantic Technology 30170  
 Audio Access 30202  
 Audio Authority 30203  
 Audio Tron 30171  
 Audiophase 30204  
 AudioSource 30205  
 Audiotronic 30136  
 Audiovox 30098, 30139  
 B & K 30105  
 Bang & Olufsen 30144  
 Blaupunkt 30206  
 Bondstec 30207  
 Bose 30062, 30076, 30150, 30151, 30261  
 Boston Acoustics 30146  
 Cambridge Soundworks 30121  
 Capetronic 30133, 30208  
 Carver 30136, 30162  
 Casio 30209  
 Celestion 30210  
 Clarion 30211  
 Classic 30109  
 Clatronic 30212  
 Coby 30092, 30213, 30262  
 Compaq 30172  
 Creative 30173  
 Crown 30214  
 Curtis 30103, 30215  
 Curtis Mathes 30129  
 Daewoo 30216

DBX 30174  
 Dell 30217  
 Delphi 30218  
 Denon 30051, 30052, 30053,  
 30054, 30055, 30102  
 D-Link 30175  
 EAD 30219  
 Eclipse 30220  
 Elan 30176  
 Electrohome 30152  
 Emerson 30112, 30256  
 Fahrenheit 30221  
 Felston 30177  
 Fonmix 30163  
 Fosgate 30170  
 GE 30046, 30128  
 Go Video 30153  
 GPX 30100, 30257  
 Griffin 30178  
 Hanwah 30222  
 Harman/Kardon 30130, 30162  
 iHome 30263  
 iLive 30124  
 iLuv 30258  
 Imerge 30179  
 Inkel 30223  
 Insignia 30120  
 Insten 30180  
 Integra 30132  
 iPort 30181  
 iSymphony 30125, 30258  
 Jamo 30126  
 JBL 30097  
 Jensen 30154  
 Jerrold 30182  
 JVC 30031, 30032, 30033,  
 30034, 30035, 30259  
 Jwin 30265  
 KEF 30155  
 Kenwood 30036, 30037, 30038,  
 30039, 30040, 30065, 30071,  
 30077, 30137  
 KLH 30139  
 Klipsch 30147  
 Koss 30117, 30138  
 Krell 30110  
 Lasonic 30156  
 Left Coast 30130  
 Lexicon 30224

LG 30093, 30264  
 Ligitek 30183  
 Linn 30162  
 Luxman 30184  
 LXI 30225  
 Magnadyne 30226  
 Magnat 30227  
 Magnavox 30066, 30133, 30136,  
 30162  
 Magnum Dynalab 30228  
 Marantz 30106, 30130, 30136,  
 30162  
 Mark Levinson 30185  
 Matrix Audio 30229  
 MCE 30230  
 McIntosh 30111  
 Mediacom 30231  
 Memorex 30186  
 Meridian 30232  
 Micromega 30233  
 Mitsubishi 30096  
 Motorola 30234  
 Musical Fidelity 30235  
 NAD 30143, 30148  
 Nakamichi 30142, 30157  
 NEC 30131, 30236  
 Netgear 30187  
 Nikko 30237  
 Niles 30238  
 Niro 30158  
 Nubert 30188  
 Nuvo 30239  
 Olive 30189  
 Omnifi 30190  
 Onkyo 30041, 30042, 30043,  
 30044, 30045, 30067, 30069,  
 30070, 30075, 30080, 30091  
 Optimus 30129, 30133, 30134,  
 30135  
 Oritron 30138  
 Panasonic 30019, 30020, 30021,  
 30022, 30023, 30115, 30116,  
 30255  
 Parasound 30113  
 Penney 30240  
 Performance Technique 30241  
 Philips 30094, 30130, 30136,  
 30162

Pioneer 30024, 30025, 30026,  
 30027, 30028, 30029, 30030,  
 30060, 30063, 30078, 30127,  
 30129, 30133, 30134  
 Polaroid 30159  
 Polk Audio 30107, 30130, 30162  
 Prima 30160  
 Primare 30242  
 Proscan 30046  
 RCA 30046, 30047, 30048,  
 30049, 30088, 30129, 30133,  
 30134, 30135, 30139  
 Revox 30243  
 Rio 30141  
 Roku 30191  
 Russound 30244  
 Saba 30161  
 Samsung 30073  
 Sangean 30245  
 Sansui 30162, 30246  
 Sanyo 30118  
 Sharp 30101, 30122, 30259  
 Sherwood 30089, 30123  
 Shure 30131  
 SII 30247  
 Sonic Blue 30141, 30153  
 Sony 30000, 30001, 30002,  
 30003, 30004, 30005, 30006,  
 30007, 30056, 30057, 30058,  
 30059, 30061, 30064, 30074,  
 30077, 30082, 30083, 30084,  
 30085, 30086  
 Soundesign 30128  
 Soundmatters 30114  
 Soundstream 30248  
 Spatializer 30192  
 SpeakerCraft 30249  
 Stereophonics 30134  
 Sunfire 30137  
 SuperTech 30250  
 Teac 30135, 30139, 30258  
 Technics 30022, 30050  
 Techwood 30251  
 Teknika 30193  
 Thorens 30136  
 Tivoli Audio 30194  
 Topline 30252  
 Toshiba 30108  
 Universum 30253  
 Vector Research 30254  
 Velodyne 30195

Venturer 30119, 30139  
Wards 30127, 30128, 30162  
Xantech 30196  
Xitel 30197  
Yamaha 30008, 30009, 30010,  
30011, 30012, 30013, 30014,  
30015, 30016, 30017, 30018,  
30068, 30072, 30079, 30081,  
30095, 30132  
Zektor 30198  
Zenith 30090  
Zon 30199

### **Audio Accessory Codes (Including CD Players and Soundbars)**

Acoustic Research 30294  
ADC 30291  
ADS 30295  
Aiwa 30283  
Akai 30292  
ASI 33000  
Audiophase 30282  
Bose 30284  
California Audio Labs 30296  
Cambridge Audio 30297  
Capetronic 30298  
Carrera 30299  
Carver 30300, 30331, 30332  
Cary Audio Design 30301  
CCE 30302  
Clarion 30303  
Classic 30304  
Coby 30287  
Cox Cable 33001  
Creative 30305  
DBX 30306  
Denon 30267  
Direct TV 33002  
Dish Network 33003  
DKK 30328  
DMX Electronics 30331  
Dynamic Bass 30332  
Emerson 30279  
Garrard 30307  
Genexxa 30329  
GPX 30280  
Harman/Kardon 30273  
Hitachi 30308  
iHome 30288

iLuv 30286  
Inkel 30309  
iSymphony 30286  
JVC 30269, 30281  
Jwin 30290  
Kenwood 30310, 30330  
KLH 30311  
Koss 30312  
Krell 30331  
LG 30289  
Linn 30331  
Luxman 30293  
Magnavox 30313  
Marantz 30314  
Mark Levinson 30315  
McIntosh 30316  
Memorex 30317  
Miro 30328  
Mission 30331  
Musical Fidelity 30318  
NAD 30319  
Nakamichi 30320  
NEC 30321  
Nikko 30322  
NSM 30331  
Onkyo 30268  
Optimus 30328, 30329, 30332  
Panasonic 30278  
Philips 30275, 30276  
Pioneer 30272  
Polk Audio 30331  
Proton 30331  
QED 30331  
Quad 30331  
RCA 30266  
Realistic 30332  
Rotel 30331  
SAE 30331  
Samsung 30323  
Sansui 30331  
Sanyo 30324  
SAST 30331  
Sharp 30281  
Sherwood 30325  
Silsonic 30330  
Sonic Frontiers 30331  
Sony 30270, 30271, 30274  
Super Atlas 33004  
TAG McLaren 30331

Teac 30286  
Technics 30277  
Techwood 30326  
Tivoli Audio 30327  
Vizio 33005  
Wards 30331  
Yamaha 30285  
Zonda 30331

### **VCR Codes**

ABS 20410  
Adventura 20050, 20250  
Aiwa 20050, 20250  
Akai 20061  
Alienware 20410  
American High 20249  
Apex 20415  
Asha 20054, 20247  
Audio Dynamics 20058  
Audiovox 20248, 20267  
Beaumark 20054, 20247  
Bell & Howell 20246  
Broksonic 20279  
Calix 20248  
Candle 20247, 20248  
Canon 20249  
CineVision 20280  
Citizen 20247, 20248, 20420  
Colortyme 20058  
Colt 20417  
Craig 20054, 20247, 20248  
Curtis Mathes 20058, 20247,  
20249  
Cybernex 20054, 20247  
CyberPower 20410  
Daewoo 20060, 20250, 20420  
Davidson 20050  
DBX 20058  
Dell 20410  
Denon 20055  
DIRECTV 20407  
Durabrand 20067  
Dynatech 20050, 20250  
Electrohome 20052, 20248  
Electrophonic 20248  
Emerson 20050, 20052, 20062,  
20248, 20249, 20250, 20420  
Fisher 20246  
Fuji 20249

Funai 20050, 20062, 20250  
 Garrard 20050, 20250  
 Gateway 20410  
 GE 20054, 20247, 20249, 20418  
 Go Video 20054  
 GoldStar 20058, 20066, 20248, 20419  
 Gradiente 20050, 20250  
 Harley Davidson 20250  
 Harman/Kardon 20058  
 Headquarter 20246  
 Hewlett Packard 20410  
 Hitachi 20050, 20055  
 Howard Computers 20410  
 Hughes Network Systems 20055, 20407  
 Humax 20407  
 Hush 20410  
 iBUYPOWER 20410  
 Instant Replay 20249  
 JC Penney 20058, 20246, 20247, 20248, 20249  
 JCL 20249  
 JVC 20056, 20057, 20058, 20246, 20254, 20264, 20265, 20266, 20268, 20269, 20270, 20271  
 Kenwood 20058, 20246  
 Kodak 20248, 20249  
 LG 20248  
 Linksys 20410  
 Lloyd's 20050, 20250  
 LXI 20248  
 Magnasonic 20062, 20420  
 Magnavox 20050, 20062, 20067, 20069, 20249  
 Magnin 20054, 20248, 20418  
 Marantz 20058, 20246, 20249  
 Marta 20248  
 Matsushita 20249  
 Media Center PC 20410  
 MEI 20249  
 Memorex 20050, 20054, 20067, 20246, 20247, 20248, 20249, 20250, 20414, 20416, 20419  
 MGA 20052, 20054, 20418  
 MGN Technology 20054, 20247  
 Microsoft 20410  
 Mind 20410  
 Minolta 20055

Mitsubishi 20052, 20255  
 Motorola 20249  
 MTC 20050, 20054, 20247  
 Multitech 20050, 20247, 20250  
 NEC 20058, 20246  
 Nikko 20248  
 Niveus Media 20410  
 Noblex 20054, 20247  
 Northgate 20410  
 Olympus 20249  
 Optimus 20062, 20248, 20416  
 Optonica 20065  
 Orion 20258, 20414  
 Panasonic 20017, 20018, 20019, 20046, 20249, 20273, 20274, 20413, 20416  
 Penney 20054, 20055, 20418, 20419  
 Pentax 20055  
 Philco 20249  
 Philips 20065, 20249, 20256, 20278, 20407  
 Philips Magnavox 20256  
 Pilot 20248  
 Polaroid 20415  
 Profitronic 20054  
 Pulsar 20067  
 Pye 20281  
 Quarte 20246  
 Quartz 20246  
 Quasar 20249, 20416  
 RadioShack 20050, 20065, 20248, 20249, 20065, 20246, 20247, 20250  
 Radix 20248  
 Randex 20248  
 RCA 20053, 20054, 20055, 20247, 20249, 20252, 20275, 20276, 20418  
 Realistic 20050, 20065, 20246, 20247, 20248, 20249, 20250, 20065  
 ReplayTV 20413  
 Ricavision 20410  
 Runco 20067  
 Samsung 20054, 20059, 20060, 20061, 20247, 20263, 20277, 20407  
 Sanky 20067  
 Sansui 20050, 20258, 20414

Sanyo 20054, 20246, 20247, 20418  
 Scott 20052, 20060  
 Sears 20050, 20055, 20246, 20248, 20249, 20419  
 Sharp 20064, 20065, 20257  
 Shogu 20054, 20247  
 Singer 20249  
 Sonic Blue 20413  
 Sony 20047, 20048, 20049, 20050, 20251, 20253, 20260, 20261, 20262, 20272, 20410  
 Stack 20410  
 STS 20055, 20249  
 SuperScan 20063  
 Sylvania 20050, 20052, 20062, 20063, 20249, 20250  
 Symphonic 20050, 20062, 20063, 20250  
 Systemax 20410  
 Tagar Systems 20410  
 Tandy 20246  
 Tashiko 20248  
 Teac 20050, 20250  
 Technics 20249  
 Teknika 20050, 20248, 20249, 20250  
 Thomas 20050  
 Tivo 20407  
 TMK 20054, 20247  
 Toshiba 20051, 20052, 20060, 20259, 20410  
 Totevision 20054, 20247, 20248  
 Touch 20410  
 Unitech 20054, 20247  
 Vector 20060  
 Vector Research 20058  
 Video Concepts 20058, 20060  
 Videosonic 20054, 20247  
 Viewsonic 20410  
 Villain 20050  
 Voodoo 20410  
 Wards 20050, 20054, 20055, 20065, 20247, 20248, 20249, 20250  
 XR-1000 20050, 20249, 20250  
 Yamaha 20058, 20246  
 Zenith 20050, 20066, 20067, 20068  
 ZT Group 20410

## 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 (698-4946) or e-mail us at [techsupport@vizio.com](mailto:techsupport@vizio.com).

| General TV Problems                    | Solution                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
|----------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Receive the error message "No Signal." | <ul style="list-style-type: none"> <li>• Press the INPUT button on the remote control to select a different input source.</li> <li>• If you are using cable connected directly to the TV or an antenna, scan for channels from the Tuner menu in the OSD.</li> <li>• Press the TV button on the top of the remote to return to the TV mode.</li> </ul>                                                                                                                                                                                                                                 |
| No power.                              | <ul style="list-style-type: none"> <li>• Make sure the power button is ON (VIZIO logo glows white).</li> <li>• Make sure the AC power cord is securely connected to the AC socket.</li> <li>• Plug another electrical device to the power outlet to verify that the outlet is working.</li> </ul>                                                                                                                                                                                                                                                                                      |
| No sound.                              | <ul style="list-style-type: none"> <li>• Press Volume + (Up) on the remote control.</li> <li>• Press MUTE on the remote control to make sure that MUTE is not ON.</li> <li>• Check your audio settings. The audio may be set to SAP, or the speakers are set to off.</li> <li>• Check the audio connections of external devices that may be connected to the HDTV.</li> <li>• 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.</li> </ul> |
| If the screen is black.                | <ul style="list-style-type: none"> <li>• Make sure the power button is ON (VIZIO Logo glows white).</li> <li>• Press the INPUT button on the remote control to select a different input source.</li> <li>• Check the connections of external devices that may be connected to the HDTV.</li> <li>• Press the TV button on the top of the remote to return to the TV mode.</li> </ul>                                                                                                                                                                                                   |

| General TV Problems                                | Solution                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
|----------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Power is ON but there is no image on the screen.   | <ul style="list-style-type: none"> <li>• Make sure all cables attached to the HDTV are connected to the correct output on the external device.</li> <li>• Adjust brightness, contrast or backlight.</li> <li>• Press the INPUT button on the remote control to select a different input source.</li> <li>• Press the TV button on the top of the remote to return to the TV mode.</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                |
| Wrong or abnormal colors appear.                   | <ul style="list-style-type: none"> <li>• Check Color and Tint settings in Picture Menu.</li> <li>• Reset Picture settings.</li> <li>• Check the video cables to make sure they are securely connected.</li> <li>• 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.</li> </ul>                                                                                                                                                                                                                                                                                                                                                                  |
| Control buttons do not work.                       | <ul style="list-style-type: none"> <li>• Press only one button at a time.</li> <li>• Press the TV button on the top of the remote to return to the TV mode.</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| Remote control does not work.                      | <ul style="list-style-type: none"> <li>• Point the remote control directly at the remote sensor on your TV.</li> <li>• Remove any obstacles between the remote control and the remote sensor.</li> <li>• Replace dead batteries with new ones.</li> <li>• Press the TV button on the top of the remote to return to the TV mode.</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| There appear to be image quality issues.           | <ul style="list-style-type: none"> <li>• 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.</li> <li>• For best image quality, view HD wide-screen programs where possible.</li> <li>• If HD content is not available view "Standard Definition" from a digital source.</li> <li>• 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.</li> </ul>                                                                                                                            |
| You cannot see a picture.                          | <ul style="list-style-type: none"> <li>• Make sure the power button is ON (VIZIO logo glows white).</li> <li>• Make sure the AC power cord is securely connected to the AC socket.</li> <li>• Press the INPUT button on the remote control to select a different input source.</li> <li>• Press the TV button on the top of the remote to return to the TV mode.</li> <li>• Check the connections of external devices that may be connected to the HDTV.</li> <li>• If your HDTV is connected to a computer, press any button on your keyboard to "wake" your computer.</li> <li>• 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.</li> </ul> |
| You see a distorted picture or hear unusual sound. | <ul style="list-style-type: none"> <li>• 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.</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| The picture has abnormal patterns.                 | <ul style="list-style-type: none"> <li>• Check the connections of external devices that may be connected to the HDTV.</li> <li>• Make sure the specifications of external devices meet the specifications of your HDTV (like resolution).</li> <li>• 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.</li> </ul>                                                                                                                                                                                                                                                                                                                               |

| General TV Problems                                          | Solution                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
|--------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| The display image does not cover the entire screen.          | <ul style="list-style-type: none"> <li>If you are in RGB mode (Computer), make sure that H-Size and V-Position in the On Screen Display (OSD) are set correctly.</li> <li>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.</li> </ul>                                                                                                                      |
| You can see a picture but you cannot hear sound.             | <ul style="list-style-type: none"> <li>Press Volume + (Up) on the remote control.</li> <li>Press MUTE on the remote control to make sure that MUTE is not ON.</li> <li>Check your audio settings. The audio may be set to SAP, or the speakers are set to off.</li> <li>Check the audio connections of external devices that may be connected to the HDTV.</li> </ul>                                                                                     |
| The TV has pixels (dots) that are always dark or colored.    | <ul style="list-style-type: none"> <li>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.</li> </ul>                                                                                                                              |
| You see "noise" or "trash" on the screen.                    | <ul style="list-style-type: none"> <li>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.</li> <li>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.</li> </ul> |
| You switch to a different input and the volume changes.      | <ul style="list-style-type: none"> <li>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.</li> </ul>                                                                                                                                                                                                                                           |
| You switch to a different input and the screen size changes. | <ul style="list-style-type: none"> <li>The TV remembers the viewing mode from the last time you used a particular input (AV-1, AV-2, Component, HDMI and TV).</li> </ul>                                                                                                                                                                                                                                                                                  |
| Tips for High-Definition Users.                              | <ul style="list-style-type: none"> <li>Your HDTV is an ideal platform for viewing High Definition Content.</li> <li>Best image quality will be achieved by HDMI. The next best is Component, followed by Composite.</li> <li>Due to variances in broadcast practices, it is possible some image distortions can occur.</li> </ul>                                                                                                                         |
| Tips for Letterbox Content Users.                            | <ul style="list-style-type: none"> <li>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.</li> </ul>                                                                                              |

| Media Viewer Problems                       | Solution                                                                                                                                                                                                                                                                                                                     |
|---------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| USB device is not recognized.               | <ul style="list-style-type: none"> <li>Make sure the device is correctly inserted.</li> <li>Make sure the device is FAT or FAT32</li> <li>Make sure it contains the supported files.</li> </ul>                                                                                                                              |
| Image or sound is interrupted or distorted. | <ul style="list-style-type: none"> <li>Make sure the device is correctly inserted.</li> <li>Make sure that the file complies with the supported format, bit rate and/or profile. Also check the file for damage.</li> <li>Some files that comply with the supported format may not play back or display properly.</li> </ul> |
| Slideshow doesn't start.                    | <ul style="list-style-type: none"> <li>Make sure the viewer isn't in pause, rotation, or zoom mode.</li> </ul>                                                                                                                                                                                                               |

## 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](mailto: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](http://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.

### E420VL Specifications

| E420VL 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<br>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)<br>1 x RF (F connector for internal tuner)<br>1x Composite Video and Stereo Audio<br>1x Component YPbPr plus Stereo Audio<br>1x Computer RGB plus Stereo Audio<br>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 GUARANTEE, 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 COMPATIBLE, MULTIMEDIA.                          |
| Special Features              | <ul style="list-style-type: none"> <li>• 120Hz panel W/O scanning backlight</li> <li>• Multimedia(JPEG)</li> <li>• HDMI CEC</li> <li>• Ambient light sensor</li> <li>• 1080 FHDTV</li> <li>• HDMI v1.3</li> <li>• DYNAMIC CONTRAST RATIO TECHNOLOGY</li> <li>• DOLBY DIGITAL FOR ATSC/QAM</li> <li>• 480I(SDTV), 480P(EDTV), 720P(HDTV), 1080I(HDTV), 1080P (FHDTV)</li> <li>• CHANNEL SKIP VIDEO/INPUT NAMING CAPABILITY</li> <li>• CLOSED CAPTION</li> <li>• PARENTAL CONTROL/V-CHIP 2.0</li> <li>• PROGRAMMABLE TIMER</li> <li>• SRS TSHD</li> <li>• SRS TruVolume</li> <li>• DETACHABLE BASE</li> </ul> |
| 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<br>1022.6 x 698 x 228.4 mm with stand; 1022 x 658 x 91.19 mm without stand |
| Net Weight               | 32.85 lbs with stand; 31.09 lbs without stand<br>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<br>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)<br>1 x RF (F connector for internal tuner)<br>1x Composite Video and Stereo Audio<br>1x Component YPbPr plus Stereo Audio<br>1x Computer RGB plus Stereo Audio<br>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 GUARANTEE, 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 COMPATABLE, MULTIMEDIA.                                                                                                                                                                                                    |                                                                                                                                                                                                                                                                                                                                        |
| Special Features         | <ul style="list-style-type: none"><li>• 120Hz panel W/O scanning backlight</li><li>• Multimedia(JPEG)</li><li>• HDMI CEC</li><li>• Ambient light sensor</li><li>• 1080 FHDTV</li><li>• HDMI v1.3</li><li>• DYNAMIC CONTRAST RATIO TECHNOLOGY</li><li>• DOLBY DIGITAL FOR ATSC/QAM</li></ul> | <ul style="list-style-type: none"><li>• 480I(SDTV), 480P(EDTV), 720P(HDTV), 1080I(HDTV), 1080P (FHDTV)</li><li>• CHANNEL SKIP VIDEO/INPUT NAMING CAPABILITY</li><li>• CLOSED CAPTION</li><li>• PARENTAL CONTROL/V-CHIP 2.0</li><li>• PROGRAMMABLE TIMER</li><li>• SRS TSHD</li><li>• SRS TruVolume</li><li>• DETACHABLE BASE</li></ul> |
| 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<br>1134 x 761.8 x 265 mm with stand;1134 x 722.4 x 92.96 mm without stand                                                                                                                            |                                                                                                                                                                                                                                                                                                                                        |
| Net Weight               | 44.75 lbs with stand; 39.68 lbs without stand;<br>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                                                                                                                                                                                                                                              |                                                                                                                                                                                                                                                                                                                                        |

## E550VL Specifications

| <b>E550VL Specifications</b>  |                                    |
|-------------------------------|------------------------------------|
| 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<br>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)<br>1 x RF (F connector for internal tuner)<br>1x Composite Video and Stereo Audio<br>1x Component YPbPr plus Stereo Audio<br>1x Computer RGB plus Stereo Audio<br>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 GUARRANTEEE, 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 COMPATIBLE, MULTIMEDIA. |                                                                                                                                                                                                                                                                                                                                        |
| Special Features         | <ul style="list-style-type: none"><li>• 120Hz panel W/O scanning backlight</li><li>• Multimedia(JPEG)</li><li>• HDMI CEC</li><li>• Ambient light sensor</li><li>• 1080 FHDTV</li><li>• HDMI v1.3</li><li>• DYNAMIC CONTRAST RATIO TECHNOLOGY</li><li>• DOLBY DIGITAL FOR ATSC/QAM</li></ul>                                                                                                                                                                                                                                                                                       | <ul style="list-style-type: none"><li>• 480I(SDTV), 480P(EDTV), 720P(HDTV), 1080I(HDTV), 1080P (FHDTV)</li><li>• CHANNEL SKIP VIDEO/INPUT NAMING CAPABILITY</li><li>• CLOSED CAPTION</li><li>• PARENTAL CONTROL/V-CHIP 2.0</li><li>• PROGRAMMABLE TIMER</li><li>• SRS TSHD</li><li>• SRS TruVolume</li><li>• DETACHABLE BASE</li></ul> |
| 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        | 138W (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<br>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<br>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](http://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](http://www.VIZIO.com) FOR THE MOST CURRENT VERSION.

#### Personal Data

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

#### ZERO BRIGHT PIXEL DEFECT GUARANTEE

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

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