

VIZIO

M421NV LCD LED **HDTV**

www.VIZIO.com



Dear VIZIO Customer,

Congratulations on your new VIZIO M421NV television purchase. To get the most out of your new VIZIO HDTV, read these instructions before making any adjustments, and retain them for future reference. We hope you will experience many years of enjoyment from your new VIZIO HDTV High Definition Television.

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

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

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

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

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

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Important Safety Instructions

Your HDTV is designed and manufactured to operate within defined design limits. Misuse may result in electric shock or fire. To prevent your HDTV from being damaged, the following rules should be observed for the installation, use, and maintenance of your HDTV. Read the following safety instructions before operating your HDTV. Keep these instructions in a safe place for future reference.

- To reduce the risk of electric shock or component damage, switch off the power before connecting other components to your HDTV.
- Unplug the power cord before cleaning your HDTV. A damp cloth is sufficient for cleaning your HDTV. Do not use a liquid or a spray cleaner for cleaning your HDTV. Do not use abrasive cleaners.
- Always use the accessories recommended by the manufacturer to insure compatibility.
- When moving your HDTV from an area of low temperature to an area of high temperature, condensation may form in the housing. Wait before turning on your HDTV to avoid causing fire, electric shock, or component damage.
- Use only with the cart, stand, tripod, bracket, or table specified by manufacturer or sold with your HDTV. When a cart is used, use caution when moving the cart/HDTV combination to avoid injury from tip-over. Do not place your HDTV on an unstable cart, stand, or table. If your HDTV falls, it can injure a person and cause serious damage to your HDTV. Use only a cart or stand recommended by the manufacturer or sold with your HDTV.
- A distance of at least three feet should be maintained between your HDTV and any heat source, such as a radiator, heater, oven, amplifier etc. Do not install your HDTV close to smoke. Operating your HDTV close to smoke or moisture may cause fire or electric shock.
- Slots and openings in the back and bottom of the cabinet are provided for ventilation. To ensure reliable operation of your HDTV and to protect it from overheating, be sure these openings are not blocked or covered. Do not place your HDTV in a bookcase or cabinet unless proper ventilation is provided.
- Never push any object into the slots and openings on your HDTV cabinet. Do not place any objects on the top of your HDTV. Doing so could short circuit parts causing a fire or electric shock. Never spill liquids on your HDTV.
- Your HDTV should be operated only from the type of power source indicated on the label. If you are not sure of the type of power supplied to your home, consult your dealer or local power company.
- Do not apply pressure or throw objects at your HDTV. This may compromise the integrity of the display. The manufacturer's warranty does not cover user abuse or improper installations.
- The power cord must be replaced when using different voltage than the voltage specified. For more information, contact your dealer.
- Your HDTV is equipped with a **three-pronged grounded plug (a plug with a third grounding pin)**. This plug will fit only into a grounded power outlet. This is a safety feature. If your outlet does not accommodate the three-pronged, have an electrician install the correct outlet, or use an adapter to ground your HDTV safely. **Do not defeat the safety purpose of the grounded plug.**
- When connected to a power outlet, power is always flowing into your HDTV. To totally disconnect power, unplug the power cord.



- The lightning flash with arrowhead symbol within an equilateral triangle is intended to alert the user to the presence of un-isolated, dangerous voltage within the inside of your HDTV that may be of sufficient magnitude to constitute a risk of electric shock to persons.



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

- The wall socket should be installed near your HDTV and easily accessible.
- Only power of the marked voltage can be used for your HDTV. Any other voltage than the specified voltage may cause fire or electric shock
- Do not touch the power cord during lightning. To avoid electric shock, avoid handling the power cord during electrical storms.
- Unplug your HDTV during a lightning storm or when it will not be used for long period of time. This will protect your HDTV from damage due to power surges.
- Do not attempt to repair or service your HDTV yourself. Opening or removing the back cover may expose you to high voltages, electric shock, and other hazards. If repair is required, contact your dealer and refer all servicing to qualified service personnel.
- Keep your HDTV away from moisture. Do not expose your HDTV to rain or moisture. If water penetrates into your HDTV, unplug the power cord and contact your dealer. Continuous use in this case may result in fire or electric shock.
- Do not use your HDTV if any abnormality occurs. If any smoke or odor becomes apparent, unplug the power cord and contact your dealer immediately. Do not try to repair your HDTV yourself.
- Avoid using dropped or damaged appliances. If your HDTV is dropped and the housing is damaged, the internal components may function abnormally. Unplug the power cord immediately and contact your dealer for repair. Continued use of your HDTV may cause fire or electric shock.
- Do not install your HDTV in an area with heavy dust or high humidity. Operating your HDTV in environments with heavy dust or high humidity may cause fire or electric shock.
- Follow instructions for moving your HDTV. Ensure that the power cord and any other cables are unplugged before moving your HDTV.
- When unplugging your HDTV, hold the power plug, not the cord. Pulling on the power cord may damage the wires inside the cord and cause fire or electric shock. When your HDTV will not be used for an extended period of time, unplug the power cord.
- To reduce risk of electric shock, do not touch the connector with wet hands.
- Insert batteries in accordance with instructions. Incorrect polarities may cause the batteries to leak which can damage the remote control or injure the operator.
- If any of the following occurs, contact the dealer:
 - The power cord fails or frays.
 - Liquid sprays or any object drops into your HDTV.
 - Your HDTV is exposed to rain or other moisture.
 - Your HDTV is dropped or damaged in any way.
 - The performance of your HDTV changes substantially.

Television Antenna Connection Protection

External Television Antenna Grounding

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

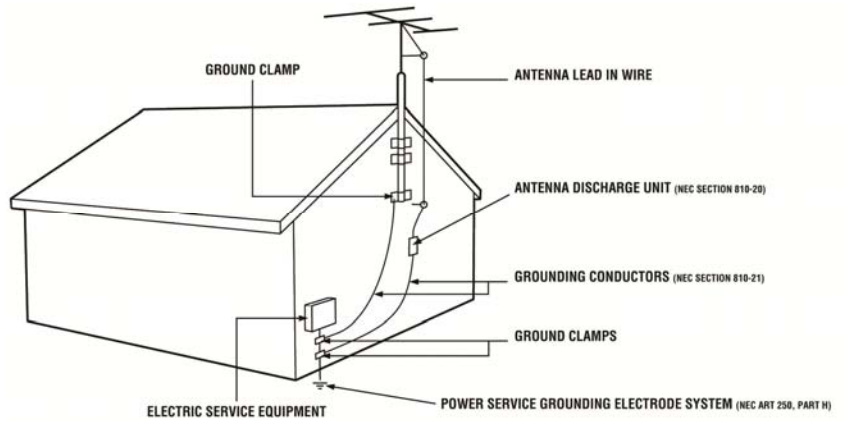
Article 810 of the National Electrical Code, ANSI/NFPA 70, provides information with regard to proper grounding of the mast and supporting structure, grounding of the lead-in wire to an antenna discharge unit, size of the grounding conductors, location of antenna discharge unit, connection to grounding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

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 screen 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 M421NV
- VIZIO remote control VUR12
- AAA batteries for the remote control (2)
- Power cord
- Detachable base with thumbscrew
- Safety Strap
- Quick Setup Guide
- Registration Card



HDTV Accessories and Services

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

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

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

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

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

Chapter 1 Setting Up Your HDTV

- Read this user manual carefully before installing your HDTV.
- The power consumption of your HDTV is about 75W average. When an extension cord is required, use one with the correct power rating. The cord must be grounded and the grounding feature must not be compromised.
- Install your HDTV on a flat surface to avoid tipping.
- For proper ventilation, you must allow a 1" space between the back of your HDTV and the wall.
- Avoid installing your HDTV in places with high humidity, dust, or smoke so you do not shorten the service life of the electronic components.
- Install your HDTV in a level, landscape orientation, with the VIZIO logo at the bottom to prevent poor ventilation and excessive component damage.
- If you want to mount your HDTV on the wall, see below for additional information.
- Read this user manual carefully before installing your HDTV.

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

Attaching the TV Stand

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

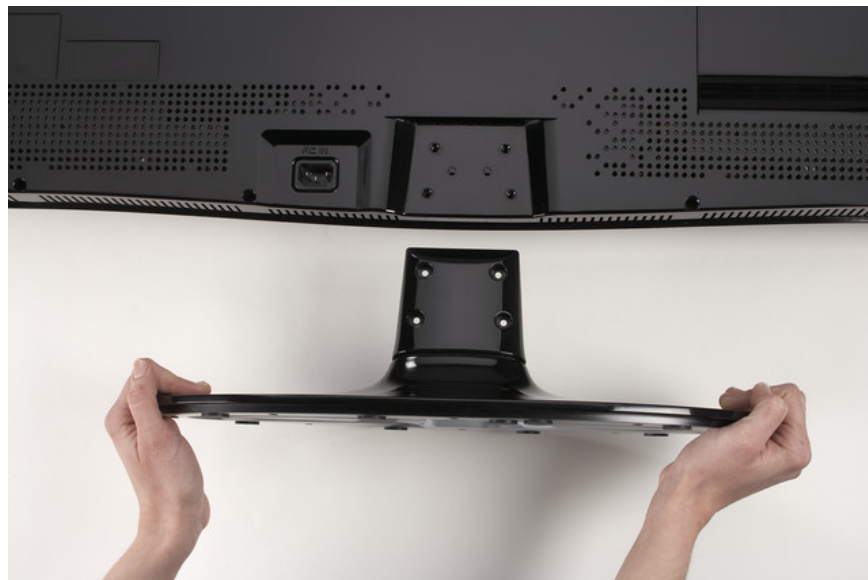
Unpack the TV and stand base:

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 packaging.
4. Remove the TV from the box and lay it face down on a clean, padded, 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

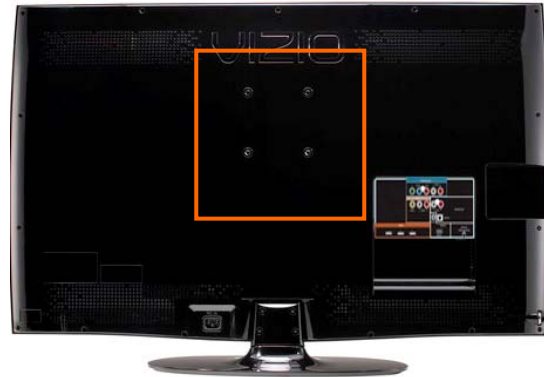
Your HDTV can be mounted on the wall for viewing. If you choose to mount your HDTV on the wall, follow the instructions below.

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 four (4) 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	
Screw Size	M6
Screw Length	20.0 mm
Screw Pitch	1.0 mm
Hole Pattern	VESA standard 200 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.



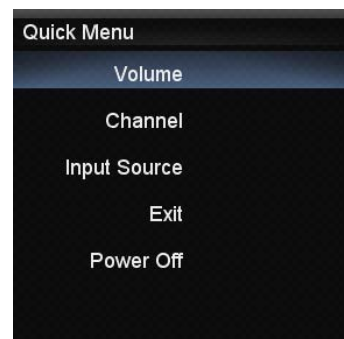
Jag Wheel Control

The Jag wheel on the side of your HDTV performs all of the same functions you might see as buttons on other TVs, including volume, power, and channel change. All of these functions have been combined into a single wheel on your M421NV.

- Press the Jag wheel once to turn your HDTV on.
- Press and hold the Jag wheel for three seconds to turn your HDTV off.
- When watching TV, scroll the Jag wheel up and down to turn the volume up and down.
- To open the Quick Menu, press the Jag wheel for two seconds, scroll the wheel up and down to highlight an option, and then press in the wheel again to confirm your selection. If you do not press anything, the menu will automatically close after 10 seconds.



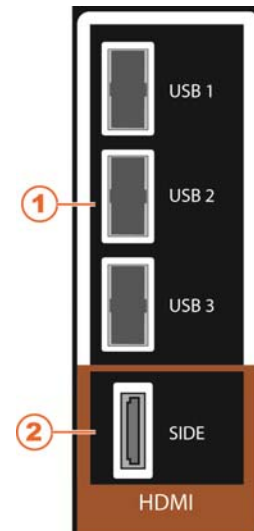
- **Volume**—Press to increase or decrease the speaker volume.
- **Channel**—Press to open a channel list. Choose the channel with the wheel and then press the wheel to go to that channel.
- **Input Source**—Press to cycle through the various devices connected to your TV (called Inputs). The inputs cycle in the following sequence: TV, AV, Comp, HDMI-1, HDMI-2, *HDMI-3*, HDMI SIDE, RGB, and Media. After you have stepped through the entire sequence, you will return to the beginning.
- **Exit**—Press to close the Quick Menu.
- **Power Off**—Press to turn your HDTV off.



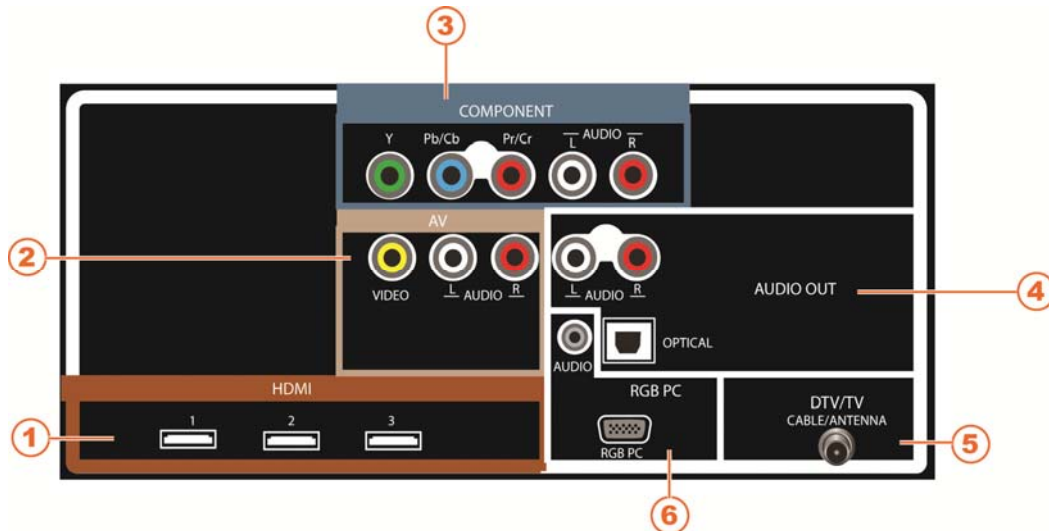
Note: The Jag wheel does not operate in the OSD menu. Please use your remote control to change your HDTV settings.

Side Panel Connections

1. **USB:**
 - Insert a FAT/FAT32 formatted USB drive to view pictures.
 - Service port for use by a professional service technician.
2. **HDMI SIDE**—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.



Rear Panel Connections



1. **HDMI 1, 2, and 3**—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. **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.
3. **COMPONENT (Y Pb/Cb Pr/Cr with L/R Audio)**—Connect Component video devices such as a DVD Player or Set Top Box here.
4. **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.
5. **DTV/TV**— Connect to an antenna or digital cable source. For digital TV stations in your area visit www.antennaweb.org. For Cable and Satellite Set Top Boxes, we recommend that you use a HDMI or Component cable connection for high definition image quality.
6. **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.

Chapter 3 VIZIO Remote Control

Installing the Batteries

1. Remove the battery cover.
2. Insert two AAA 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:

- Only use AAA 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.

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.
- **AUDIO**—Press to select a Home Theater System or Audio Amplifier that has been programmed to work with this remote.
- **CABLE**—Press to select a Cable or Satellite Set Top Box that has been programmed to work with this remote.
- **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 46 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.

▲ ▼ ◀ ▶—Press 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. Press repeatedly to close the OSD.

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

Color Buttons (Yellow, Blue, Red, & Green):

- **Yellow**—This button performs the same function as the “A” button on your Cable or Satellite box when using the remote to control your pre-programmed Cable/Satellite Box DVR.
- **Blue**—This button performs the same function as the “B” button on your Cable or Satellite box when using the remote to control your pre-programmed Cable/Satellite Box DVR.
- **Red**—This button performs the same function as the “C” button on your Cable or Satellite box when using the remote to control your pre-programmed Cable/Satellite Box DVR.
- **Green**—This button performs the same function as the “D” button on your Cable or Satellite box when using the remote to control your pre-programmed Cable/Satellite Box DVR.

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.

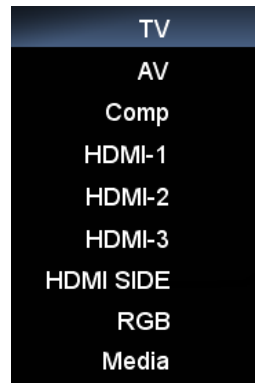
AV—Press to select the AV input.

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-3, HDMI SIDE, RGB, and Media. After you have stepped through the entire sequence, you will return to the beginning.

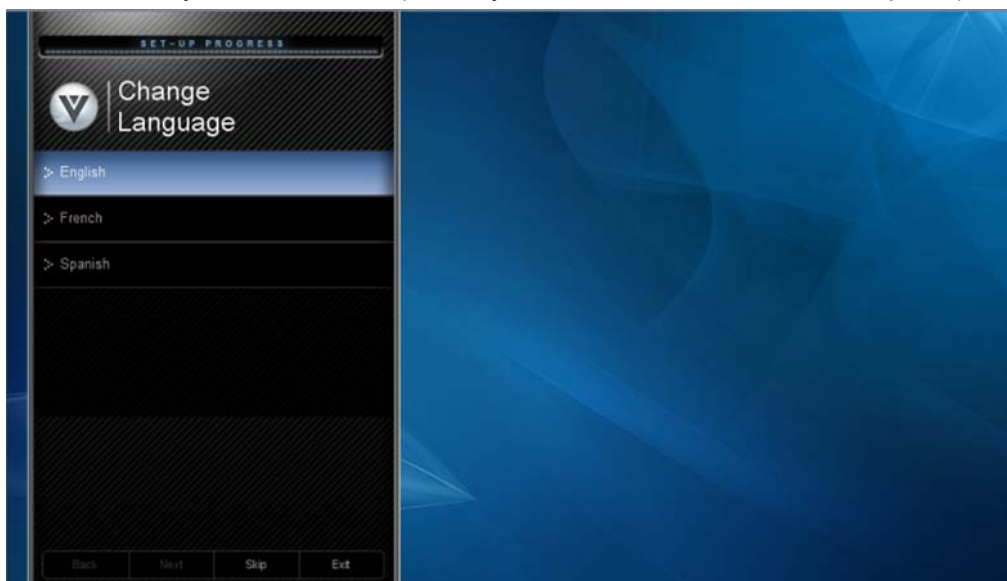
- (**DASH**)—Press to insert a dash between the main and sub-channels. For example, channel 28-2 would be selected by the button sequence 2, 8, DASH, 2.



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 2 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)



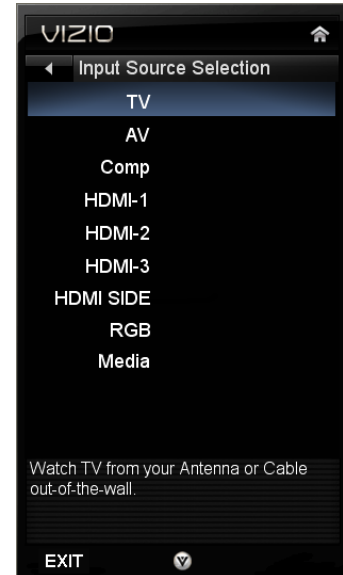
Chapter 5 Using your HDTV for the first time

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-3, 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 must 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 power cord 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 (e.g. 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.

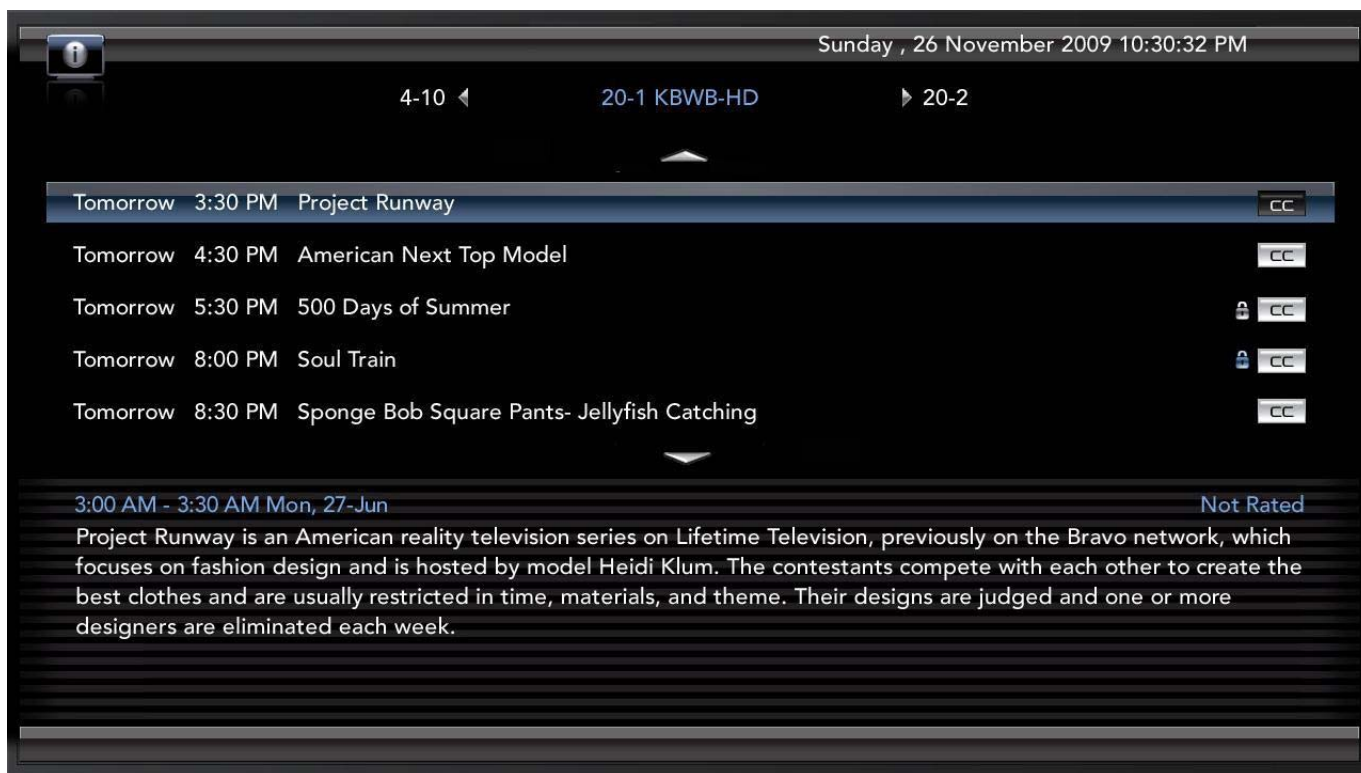
3. When using the TV input, press the channel buttons on the remote control or press the Jag wheel on the TV to launch the Quick Menu to change the channel. The channel buttons will not work if you are watching a program using HDMI, Component, or AV inputs.

Note: If your HDTV is in **TV** mode, pressing **CH+** and **CH-** will not work until a channel scan has been run. See **Error! Reference source not found.** on page 42.

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. Press **GUIDE** again to display more information about the program and schedule.




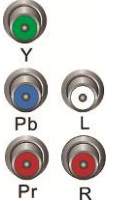

Time Warp: Mouse Trap			Ch 50-123	KCAL DTV	CABLE
11:00 AM - 12:00 AM	TV-PG (V)	CC-OFF	ENGLISH	DOLBY 5.1	720p HD
In this hour-long special, the Time Warp team runs off to join the circus with trap-testing Rev. Tommy Gunn and with high-flying Cirque du Soleil, explore their inner stuntmen, and put everything 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)		HDMI delivers the best image quality of any of the cable types available and it's all done over one cable. You get a great picture and cut down on your cable clutter. HDMI provides digital quality and amazing sound so if your TV has HDMI, this is the connection type you should be using.
Best (digital) ----- Good (analog)		Connect your antenna or coaxial cable to watch TV programming. This cable usually comes from your Cable box or right out of the wall.
Best (analog)		The RGB (VGA) port allows you to connect your computer so you can use the TV as your monitor.
Better (analog)		Component consists of three cables for transmitting video and two cables for transmitting audio: one red and one white. Component video provides a sharper image than Composite video and should be used instead of Composite when possible. However, because it is still an analog connection, it won't provide the high-quality video and audio that HDMI can produce.
Good (analog)		Composite consists of one yellow cable for transmitting video and two cables for transmitting audio: one red and one white. It is capable of transmitting stereo sound and standard definition video (480i). While it provides a good image, it has lower image quality than HDMI or 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 or call 1-888-VIZIOCE (1-888-849-4623) for details.

Connecting Your Cable or Satellite Box

Using HDMI (Best)



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

1. Turn off your HDTV and Cable/Satellite box.
2. Connect an HDMI cable to the **HDMI** output of your Cable/Satellite box and the other end to the **HDMI 1, 2, 3, or HDMI SIDE** jack on your HDTV.
3. Turn on the power to your HDTV and your Cable/Satellite box.
4. Select **HDMI-1, HDMI-2, HDMI-3, 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.

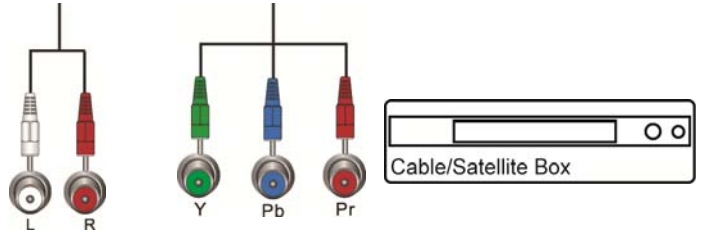
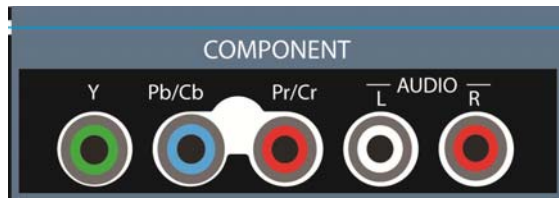
HDMI Connections for Cable or Satellite Boxes with DVI



1. Turn off your HDTV and 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 1, 2, 3, or HDMI SIDE** jack on your HDTV.
3. Turn on the power to your HDTV and your Cable/Satellite box.
4. Select **HDMI-1, HDMI-2, HDMI-3, or HDMI SIDE** using the **INPUT** button on the remote control or side of the TV.

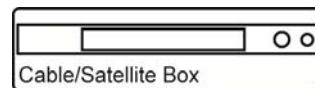
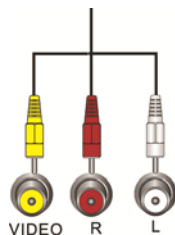
Note: There are no dedicated audio ports for HDMI so there may or may not be audio from the TV with this connection.

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)

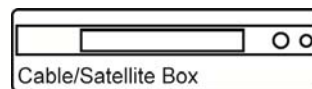


1. Turn off your HDTV and Set Top Box.
2. Connect the video cable (yellow) from your Set Top Box to the **AV** jack (yellow) on your HDTV.
3. Connect the audio cables (white and red) on your Set Top Box to the **AV L and R AUDIO** jacks on your HDTV.
4. Turn on your HDTV and Set Top Box.
5. Select **AV**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

Using Coaxial (Antenna) (Good)



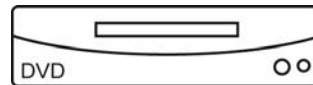
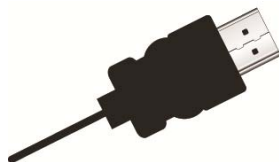
COAXIAL



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 42 for more information on scanning for channels.

Connecting Your DVD Player

Using HDMI (Best)



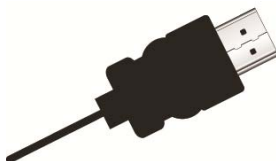
DVD players that have a HDMI digital interface should be connected using HDMI for optimal results. To maintain image quality, use a VIZIO certified HDMI cable. This cable is available in 6, 15, and 30 foot lengths. Visit www.VIZIO.com or call **877-MYVIZIO** (877-698-4946) for details.

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

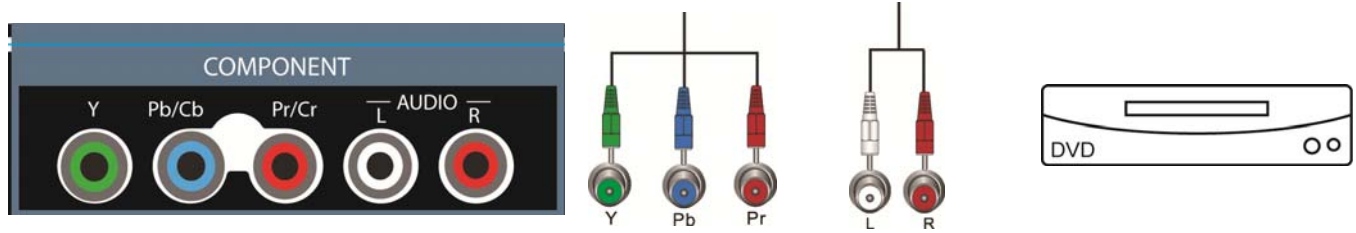
HDMI Connections for DVD Players with DVI



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

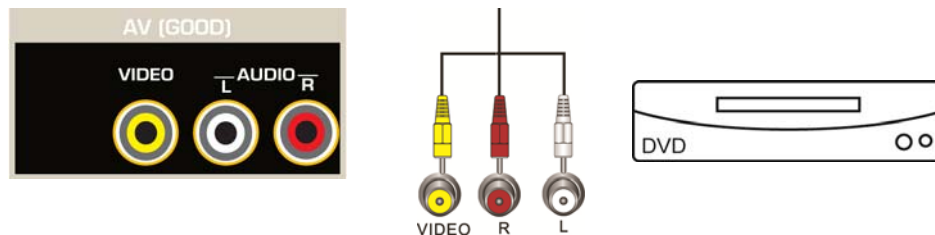
Note: There are no dedicated audio ports for HDMI so there may or may not be audio from the TV with this connection.

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.

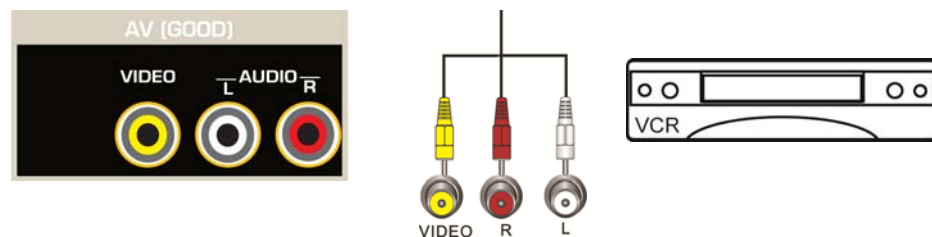
Connecting Coaxial (RF)

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 42 for more information on scanning for channels.

Connecting Your VCR or Video Camera

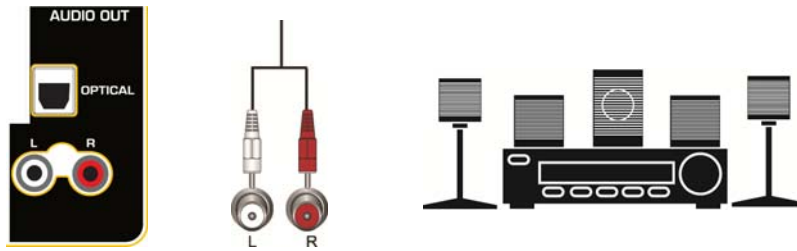


Note: Refer to your VCR or Video Camera user manual for more information about the video output requirements of the product.

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



Connecting the cables

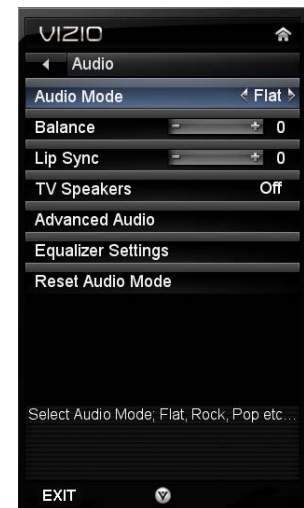
1. Turn off the power to the HDTV and Receiver/Amp.
2. Using an audio cable (white and red connectors), connect the cable to the audio input connectors on the Receiver/Amp and connect the other end to the **AUDIO OUT** audio connectors on the back of the HDTV.
3. Turn on the power to the HDTV and Receiver/Amp.

Turning TV speakers off

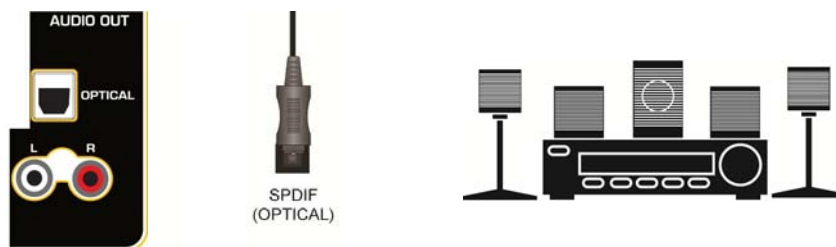
1. Press **MENU** to open the OSD.
2. Press **▼** to highlight *Settings*, and then press **OK** to select.
3. Press **OK** to select *Audio*, and then press **▼** to select **TV SPEAKERS**.
4. Press **▶** to select **OFF** so the sound from the HDTV will be routed through your Receiver/Amp system.

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)

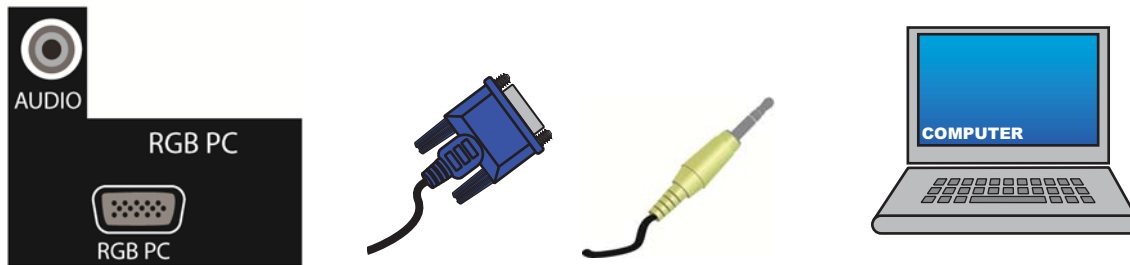


If your sound system has a S/PDIF (optical) digital audio input you can connect it from your sound system to the **OPTICAL** digital audio out on your HDTV. This is active when receiving audio with the programs being viewed no matter what input is being used.

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

RGB (VGA)



1. Set computer to a resolution supported by your HDTV (see *Preset PC Resolutions* on page 74). 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 1, 2, 3, or HDMI SIDE** jack on your HDTV.
3. 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.
4. Turn on the power to your HDTV and your computer.
5. Select **HDMI-1, HDMI-2, HDMI-3, or HDMI SIDE** using the **INPUT** button on the remote control or side of the TV.

Chapter 7 Enjoying Multimedia

With the USB port you can enjoy digital content such as photos, music, and movies on your HDTV using a USB flash drive connected to the USB port on the left-hand side of the TV.

USB drives that are USB 2.0 and FAT or FAT32 are supported but the Multi Media port does not support hard drives or USB hubs.

If your USB drive is oversized and does not physically fit in the port, use a USB extension cable. Connect one end of the cable to your USB drive and the other end to the USB port.

Multimedia Viewer Specifications	
Supported File Extensions	Video: .asf, .wmv, .avi, .mp4, .mov, .mpg, .mpeg, .vob (DVD) Audio: .mp3 Image: .jpg, .jpeg (up to 17,000 x 10,000 pixels)
Readable Data Format	FAT and FAT32
Maximum folder depth	Folders can be up to 20 levels deep. The first folder on the drive is Level 1. A folder within that folder is Level 2, a folder within that folder is Level 3, etc.
Display Limits	The Multimedia Viewer will show the first 1000 folders and 1000 files in the list

Supported File Formats

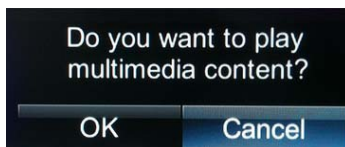
The following are the supported file formats that can be played on your HDTV. Media server content protected by digital rights management such as WMDRM10 (Windows Media Digital Rights Management 10), may not play.

File Extension	Video Encoding Supported	Audio Encoding Supported	Resolutions Supported
.avi	H.264/AVC	AAC	Up to 1920 x 1080
.mp4	MPEG 4 ASP	AAC	Up to 1280 x 720
.asf .wmv	WMV7 (WMV1) WMV8 (WMV2) VC-1/WMV9 (WMV3/WVC1)	WMA7(V1) WMA8(V2)	Up to 1920 x 1080
.mov	H.264/AVC	AAC	Up to 1920 x 1080
.mpg .mpeg	MPEG2	AC3	Up to 1920 x 1080
.vob	MPEG2	AC3	Up to 1920 x 1080

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.

Accessing Multimedia Content

1. Insert a USB device with digital content such as photos, music, and movies into the USB port on the side of your HDTV. If a USB device is already connected, press **MEDIA** on the remote control. A message will appear asking if you want to play multimedia content.
2. Press **◀** to highlight **OK**, and then press **OK** to select it. The *Multimedia* folder will be displayed.
3. Press **◀** or **▶** to highlight *Photo*, *Music*, or *Video* and then 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, *Adjusting Music Settings* on page 32, and *Adjusting Video Settings* on page 33 to adjust various settings.
5. When finished, press **EXIT** once to return to the previous screen or repeatedly to return to the top level of the USB device. Press **MEDIA** to return to the previous TV input, or press an Input button to return to a desired input.



Adjusting Photo Settings

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

1. Insert a USB device and select the *Photo* Folder.
2. Select the folder or files that you want to play.
3. Press **MENU**. The *Photo* menu will be displayed.
4. Press **▲** or **▼** on the remote control to highlight a photo menu option, and then press **◀** or **▶** to adjust the setting.
5. 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** displays 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** shows your pictures in the order they are listed on your USB device until you stop the slideshow.
- **Shuffle** shows your pictures in random order until you stop the slideshow.

Slideshow With Music

Choose from **Off**, **Single**, **Sequence**, and **Shuffle** to set the slideshow with music mode. The music will automatically stop when the slideshow stops. Press **OK** to start and stop the slideshow.

Audio Mode

Choose from **Flat**, **Rock**, **Pop**, **Classic**, or **Jazz** to adjust the overall quality of the audio being played during the slideshow. Press **OK** to enter the Audio sub menus for additional adjustments to audio. See *Audio Menu* adjustment section on page 40. Turn SRS TruVolume off when listening to music.

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

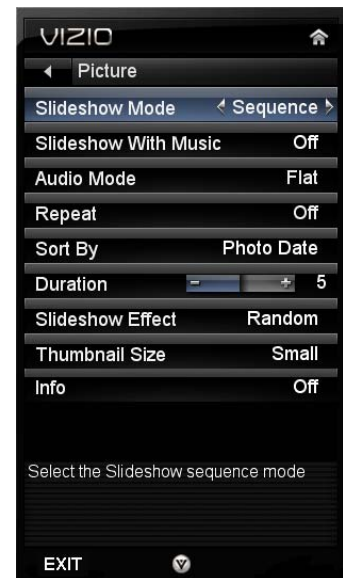
Choose from **Random**, **Dissolve**, **Wipe Right**, **Wipe Left**, **Wipe Up**, **Wipe Down**, **Box In**, or **Box Out** to set the transition type when changing from one picture to another during a slideshow.

Thumbnail Size

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

Info

When set to **On**, info



Information about the picture briefly appears on your HDTV.

Music Settings

When listening to music you can adjust various settings, including selecting an audio mode, choosing repeat options, etc.

1. Insert a USB device and select the *Music* Folder.
2. Select the folder or files that you want to play.
3. Press the **MENU** button on the remote control. The Music menu will be displayed.
4. Press **▲** or **▼** on the remote control to highlight Music menu option, and then press **◀** or **▶** to adjust the setting.
5. Press the **MENU** button once to close the menu.

Sort By

You can choose to sort the songs by **File/Title**, **Genre**, **Artist**, or **Album**.

Play Mode

Choose from **Shuffle**, **Single**, and **Sequence** to set the play sequence mode. **Single** will play a single song once and stop playing at the end of that song, **Sequence** will play the songs in the order they are listed on your USB device until you stop it, and **Shuffle** will play the songs in random order until you stop it.

Repeat

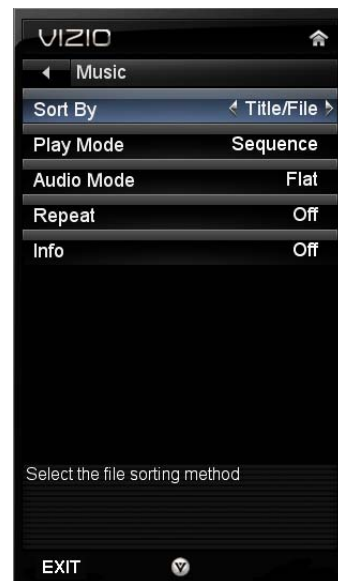
When set to **On**, the music will continue playing until you stop it.

Audio Mode

Choose from **Flat**, **Rock**, **Pop**, **Classic**, and **Jazz** to adjust the overall quality of the audio being played.

Info

When set to **On**, information about the song briefly appears on the TV.



Video Settings

When watching videos you can adjust various settings, including selecting an audio mode, setting to a wider format, etc.

1. Insert a USB device and select the *Video* Folder.
2. Select the folder or files that you want to play.
3. Press the **MENU** button on the remote control. The Video menu will be displayed.
4. Press **▲** or **▼** on the remote control to highlight Video menu option, and then press **◀** or **▶** to adjust the setting.
5. Press the **MENU** button once to close the menu.

Sort By

You can choose to sort the videos by **Type**, **Date**, or, **File Name**.

Play Mode

Choose from **Shuffle**, **Single**, and **Sequence** to set the video sequence mode. **Single** will play a video once and stop playing at the end of that song. **Sequence** will play the videos in the order they are listed on your USB device until you stop it. **Shuffle** will play the videos in random order until you stop it.

Repeat

When set to **On**, the video(s) will continue playing until you stop it.

Picture Mode

Choose from **Custom**, **Standard**, **Movie**, **Game**, **Vivid**, **Football**, **Golf**, **Basketball** and **Baseball** to adjust the overall quality of the picture. Press **OK** to enter the Picture sub menus for additional adjustments to video. See Picture Menu adjustment section below.

Wide Format

Set the way the picture looks on the screen:

- 4:3 videos: choose **Normal**, **Wide**, or **Zoom**.
- 16:9 videos: choose **Normal**, **Wide**, **Zoom**, or **Stretch**.

Audio Mode

Choose from **Flat**, **Rock**, **Pop**, **Classic**, and **Jazz** to adjust the overall quality of the audio being played.

Info

When set to **On**, information about the video briefly appears on the TV.

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-3*, *HDMI SIDE*, *RGB*, and *Media*.

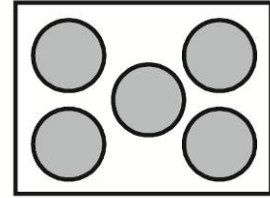


Wide Menu

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

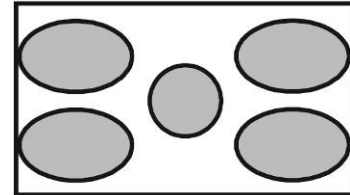
Wide mode allows you to view the entire picture. This is recommended for HDMI and RGB (Computer) viewing so you can see the complete picture without the image overstretching beyond the viewing area. For 720p, 1080i, 1080p only.

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.

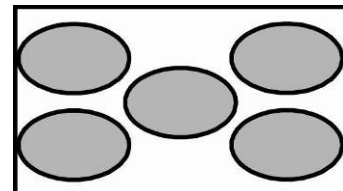
Panoramic

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**.

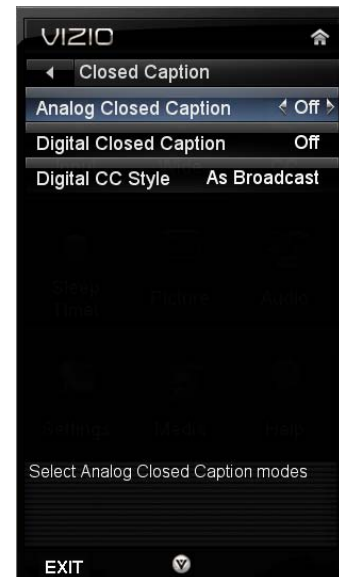
Digital Closed Caption

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**, **Baseball**, or **Custom**. Each input (i.e. HDMI, COMP, etc) remembers the custom setting you created.

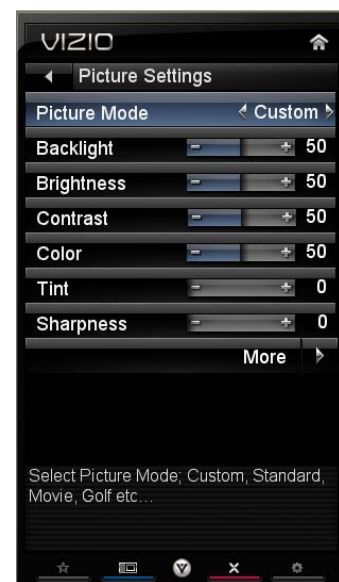
Backlight

Adjust the brightness to affect the overall brilliance of the picture not the Brightness (black level) or Contrast (white level) of the picture. Press **OK** to select this option and then press ◀ or ▶ to adjust it.

Note: Backlight is only available when *Ambient Light Sensor* is set to **Off**.

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. Press **OK** to select this option and then press ◀ or ▶ to adjust it.



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. Press **OK** to select this option and then press ◀ or ▶ to adjust it.

Color

Adjust the amount of color in the picture. Press **OK** to select this option and then press ◀ or ▶ to adjust it.

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. Press **OK** to select this option and then press ◀ or ▶ to adjust it.

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. Press **OK** to select this option and then press ◀ or ▶ to adjust it.

More

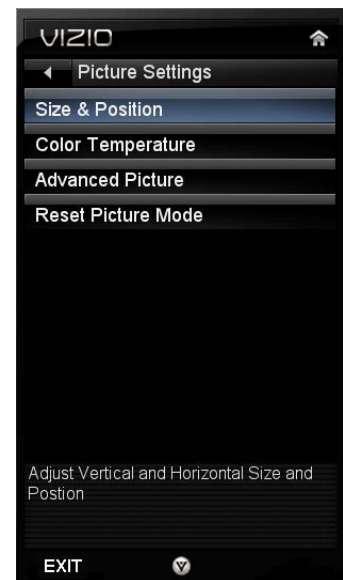
Select **More** to adjust advanced options for fine tuning the picture.

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 Component, Composite, and RGB modes. In HDMI mode, only the Position function is only available.



Color Temperature

Color Temperature is the “warmness” or “coolness” of the white areas of the picture. Choose from **Custom**, **Cool**, **Computer**, or **Normal**. **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**

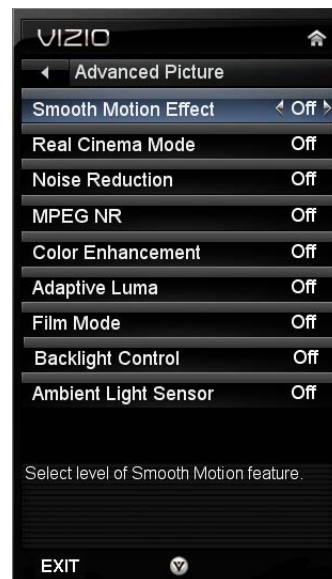
Choose from **Off** or **Auto**. When set to **Off** it will stay at 60 fps. When set to **Auto**, the TV will detect the cadence (for example at 24 frames/second for film, or normal video at 60 fps).

- **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.

MAIN \ SUB	SUB				
	TV	AV (Composite)	Component	HDMI-1 HDMI-2 HDMI-3 HDMI SIDE	RGB (Computer)
TV			✓	✓	✓
AV (Composite)			✓	✓	✓
Component	✓	✓		✓	
HDMI-1	✓	✓	✓		✓
HDMI-2	✓	✓	✓		✓
HDMI-3	✓	✓	✓		✓
HDMI Side	✓	✓	✓		✓
RGB (Computer)	✓	✓		✓	

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

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 option including audio settings, tuner settings (e.g. channel scan), Parental Controls, and Date and Time.

Audio

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

Audio Mode

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

Balance

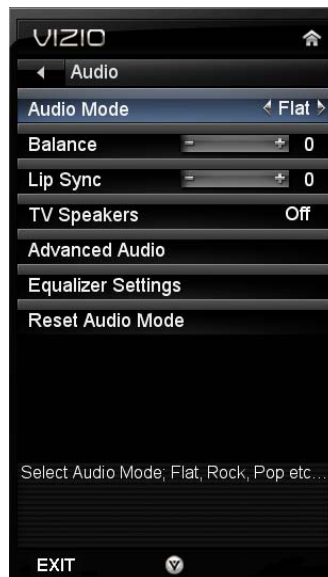
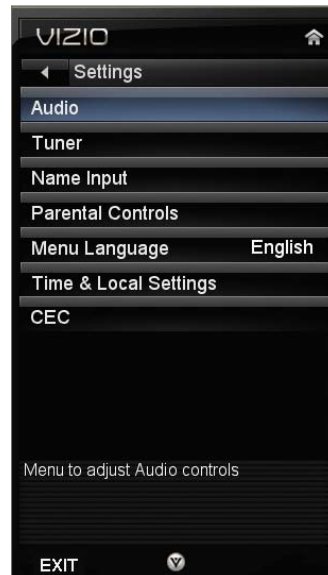
Adjust the sound to the left or the right.

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**

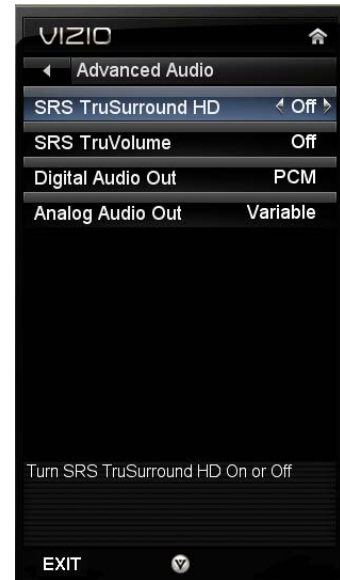
When the programming switches to a commercial or when changing from channel to channel, volume fluctuations occur. When turned ON, SRS TruVolume™ provides the listener with a comfortable and consistent volume level. Turn this option Off when listening to music.

- **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.

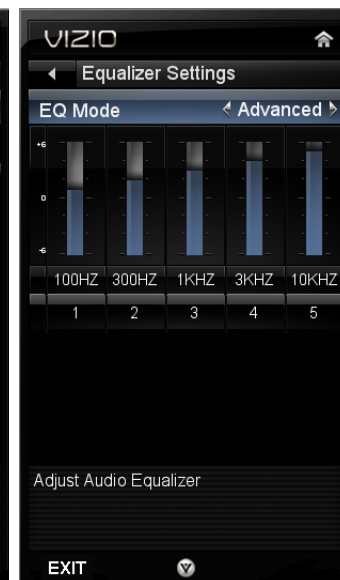
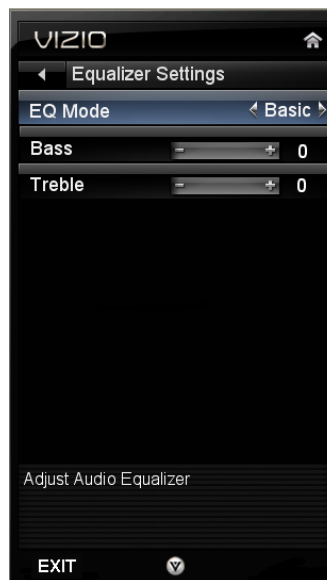
- **EQ Mode (Advanced)**

Adjust boost or attenuation of different frequencies.

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

1. Press **▼** then **◀** or **▶** to select the frequency to be adjusted. Press **OK**.
2. Press **▲** 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.



Tuner

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

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 **OK** to select the range of channel numbers you want to start searching in. Enter a channel number using the remote control and then press **▼** to select **Start**. Press **OK** to start the channel search.

Add Analog Channel

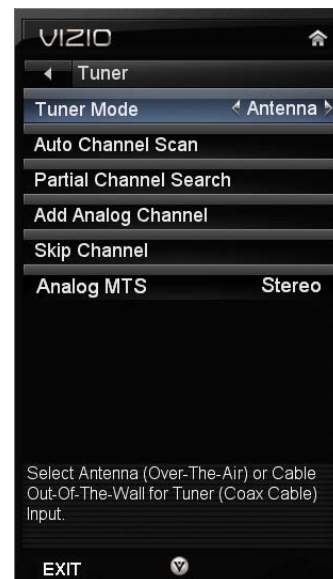
If your are in fringe/marginal reception areas or you want to receive local broadcasts where *Auto Channel Search* may not pick up the signals you can manually add channels. Press **OK** and a new menu will open. Enter the channel number, press **▼** to select *Add Channel*, and then press **OK** to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

Skip Channel

After the TV has stored all of the available digital channels in memory you will find that some channels are too weak to watch comfortably or they may be channels you do not want to see. Press **OK** to select the channel to be skipped when using **CH+** or **CH-**. 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. To add the channel back, press **OK** to remove the X.

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**.

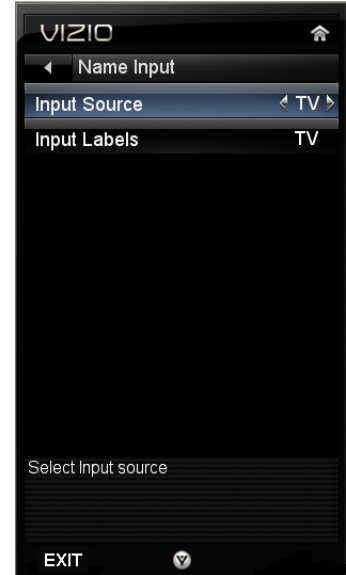


Name Input

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 nine preset labels.

To use one of the nine preset labels:

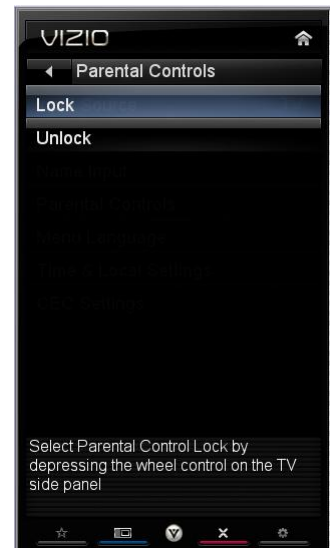
1. Select *Input Source*, and then press **OK** to show the list of inputs.
2. Press **▼** to select the input label you want to change, and then press **OK**.
3. Press **▼** to select *Input Labels*, and then press **OK** to show the list of nine preset labels.
4. Press **▼** to select the new input label name, and then press **OK**.
5. If *Custom* is selected, press **▼** to select the label name, and then press **OK**. A keyboard will open, allowing you to enter a custom name, up to 10 characters.



Parental Controls

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

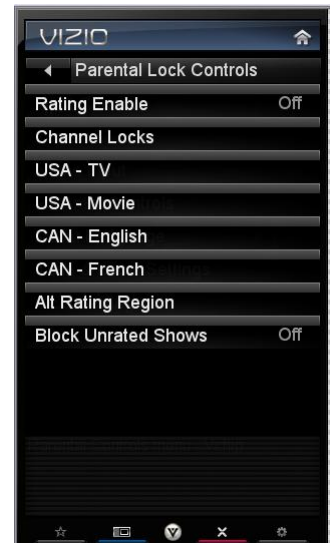
Note: The Parental Controls are divided into **LOCK** and **UNLOCK** menus. To activate or lock parental controls, use the **LOCK** menu. To deactivate or unlock parental controls, use the **UNLOCK** menu.



Navigating Lock and Unlock Menus

To access or navigate the **LOCK** menu, you must use the **Jag Wheel Control** on the side of the TV. Turn the wheel forward or backward to highlight a menu option, then press the wheel to select. **The remote control buttons do not control the LOCK menu.**

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



Lock and Unlock Menu Functions

Rating Enable

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

Channel Locks

Block individual channels from being displayed.

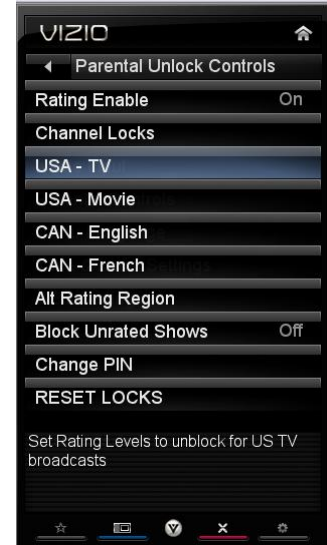
USA-TV

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

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

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

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



USA-Movie

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

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

CAN-English

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

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

CAN-French

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

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

Alt Rating Region

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

Block Unrated TV

Block programming that does not have a rating.

Change PIN (UNLOCK Menu Only)

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

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

RESET LOCKS (UNLOCK Menu Only)

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

Menu Language

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

Time & Local Settings

Time Zone

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

Daylight Saving

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

CEC

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

1. Insert a USB device with digital content such as photos, music, and movies into the USB port on the side of your HDTV.
2. Press ◀ or ▶ to highlight *Photo*, *Music*, or *Video* and then press **OK** to select it. A menu will be displayed showing the folders and files that are on your USB device.
3. 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 47, *Adjusting Music Settings* on page 48, and *Adjusting Video Settings* on page 49 to adjust various settings.
4. 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, and picture duration.

1. Insert a USB device and select the *Photo* Folder.
2. Select the folder or files that you want to play.
3. Press **MENU**. The *Photo* menu will be displayed.
4. Press **▲** or **▼** on the remote control to highlight a photo menu option, and then press **◀** or **▶** to adjust the setting.
5. 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** displays 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** shows your pictures in the order they are listed on your USB device until you stop the slideshow.
- **Shuffle** shows your pictures in random order until you stop the slideshow.

Slideshow With Music

Choose from **Off**, **Single**, **Sequence**, and **Shuffle** to set the slideshow with music mode. The music will automatically stop when the slideshow stops. Press **OK** to start and stop the slideshow.

Audio Mode

Choose from **Flat**, **Rock**, **Pop**, **Classic**, or **Jazz** to adjust the overall quality of the audio being played during the slideshow. Press **OK** to enter the Audio sub menus for additional adjustments to audio. See *Audio Menu* adjustment section on page 40. Turn SRS TruVolume off when listening to music.

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

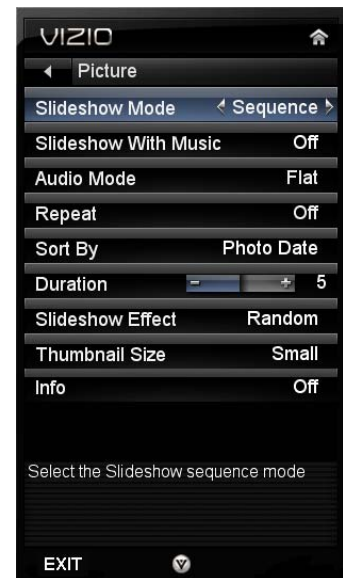
Choose from **Random**, **Dissolve**, **Wipe Right**, **Wipe Left**, **Wipe Up**, **Wipe Down**, **Box In**, or **Box Out** to set the transition type when changing from one picture to another during a slideshow.

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.



Music Settings

When listening to music you can adjust various settings, including selecting an audio mode, choosing repeat options, etc.

1. Insert a USB device and select the *Music* Folder.
2. Select the folder or files that you want to play.
3. Press the **MENU** button on the remote control. The Music menu will be displayed.
4. Press **▲** or **▼** on the remote control to highlight Music menu option, and then press **◀** or **▶** to adjust the setting.
5. Press the **MENU** button once to close the menu.

Sort By

You can choose to sort the songs by **File/Title**, **Genre**, **Artist**, or **Album**.

Play Mode

Choose from **Shuffle**, **Single**, and **Sequence** to set the play sequence mode. **Single** will play a single song once and stop playing at the end of that song, **Sequence** will play the songs in the order they are listed on your USB device until you stop it, and **Shuffle** will play the songs in random order until you stop it.

Repeat

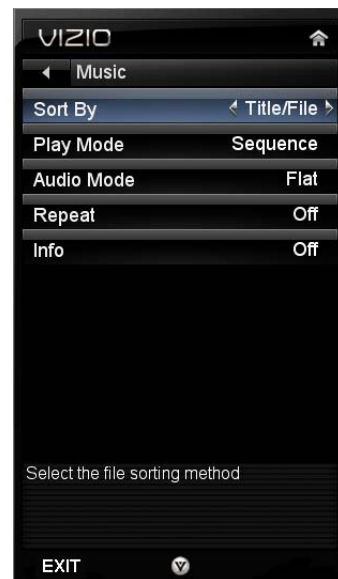
When set to **On**, the music will continue playing until you stop it.

Audio Mode

Choose from **Flat**, **Rock**, **Pop**, **Classic**, and **Jazz** to adjust the overall quality of the audio being played.

Info

When set to **On**, information about the song briefly appears on the TV.



Video Settings

When watching videos you can adjust various settings, including selecting an audio mode, setting to a wider format, etc.

1. Insert a USB device and select the *Video* Folder.
2. Select the folder or files that you want to play.
3. Press the **MENU** button on the remote control. The Video menu will be displayed.
4. Press **▲** or **▼** on the remote control to highlight Video menu option, and then press **◀** or **▶** to adjust the setting.
5. Press the **MENU** button once to close the menu.

Sort By

You can choose to sort the videos by **Type**, **Date**, or, **File Name**.

Play Mode

Choose from **Shuffle**, **Single**, and **Sequence** to set the video sequence mode. **Single** will play a video once and stop playing at the end of that song. **Sequence** will play the videos in the order they are listed on your USB device until you stop it. **Shuffle** will play the videos in random order until you stop it.

Repeat

When set to **On**, the video(s) will continue playing until you stop it.

Picture Mode

Choose from **Custom**, **Standard**, **Movie**, **Game**, **Vivid**, **Football**, **Golf**, **Basketball** and **Baseball** to adjust the overall quality of the picture. Press **OK** to enter the Picture sub menus for additional adjustments to video. See Picture Menu adjustment section below.

Wide Format

Set the way the picture looks on the screen:

- 4:3 videos: choose **Normal**, **Panoramic**, **Zoom1**, or **Zoom2**.
- 16:9 videos: choose **Stretch**, **Zoom1**, or **Zoom2**

Audio Mode

Choose from **Flat**, **Rock**, **Pop**, **Classic**, **Jazz**, and **Soft** to adjust the overall quality of the audio being played.

Info

When set to **On**, information about the video briefly appears on the TV.

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. Refer to Chapter 3 for more information.

Note: Previously scanned channels will be removed.



Chapter 9 Programming the VIZIO Universal Remote Control

Using a Cable or Satellite Box Remote

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

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

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

Programming other devices

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

Programming your Blu-Ray or DVD Player

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

Notes:

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

Programming your Home Theater System

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

Notes:

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

Programming your Cable or Satellite Set-Top Box

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

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

Notes:

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

Searching for Device Codes

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

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

Reset Remote to Factory Settings

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

Remote Control Codes

Television Codes

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

3M 1655	Chun Yun 0706, 1687, 1756, 1834, 2230	Emerson 1864, 0154, 0451, 0236, 0463, 0180, 0178, 0171, 1661, 0623, 1394, 1913, 1929, 1944, 1963, 0002, 0479, 0593, 1479, 0675, 1268, 2212, 0821	Helios 0865
Admiral 0093, 0463	Citizen 0060, 0030, 0092, 1669, 1671, 1672, 1935, 0695	Emprex 1422, 1546, 1765	Hello Kitty 0451
Advent 0761, 0783, 0815, 0817, 0842	Clarion 0180	Envision 0030, 0813, 1365, 1589, 2014, 2087	Heran 1826, 1852, 2305, 2356
Aiko 0092	Coby 1538, 1634, 2017, 2306, 2315, 2338, 2340, 2343, 2344, 2345, 2347, 2348, 2350, 2495, 2535, 2536, 2537, 2538, 2540	Epson 0833, 0840, 1122	Herosonic 1826
Akai 0812, 1675, 0702, 0030, 0672, 1207, 1935, 2232, 0143, 0695, 2439	Colt 0072	ESA 0812, 0171, 1944, 1963, 1268, 0821	Hewlett Packard 1642, 1494, 1502
Albatron 0700, 0843	Commercial Solutions 1447, 0047	Esonic 2221, 2229, 2234	HiPlus 1420, 1435, 2113, 2224, 2225, 2226, 2230, 2235
America Action 0180, 0278	Contec 0180	Fisher 0154	Hisense 0748, 1314, 1660, 2098, 2183, 2355, 2419
Anam 0180	Craig 0180	Frigidaire 1597, 1826, 2231	Hitachi 1643, 1145, 0145, 1445, 1904, 0000
AOC 0030, 1365, 1589, 1590, 2014, 2087, 2402	Crosley 0000, 0054	Fujimaru 1687	HP 1642, 1494, 1502
Aomni 1623	Crown 0180	Fujitsu 0809, 0683, 0853	Humax 1501
Apex Digital 0748, 0879, 0765, 0767, 0890, 1217, 2397	Curtis 2352, 2466, 2660	Funai 0000, 0180, 0171, 1271, 1904, 1963, 1268	Hyundai 0849
Astar 1531, 1548, 1738	Curtis Mathes 0047, 0054, 0154, 0451, 0093, 0060, 0702, 0030, 0145, 0166, 1661, 1147, 1347	Futuretech 0180	I-Inc 1746
Asus 2175	CXC 0180	Gateway 1755, 1756	iLo 1286, 1603, 1684, 1990, 1472
Audiovox 0451, 0180, 0092, 0623, 0802, 0846, 0875, 1284, 1937, 1951, 1952, 0278, 1071, 1121, 1122	Daewoo 0154, 0451, 0092, 1661, 0623, 0661, 0672	GE 1447, 0047, 0051, 0451, 0178, 1347, 1922, 2359, 0240, 1060	Infinity 0054
AUO 1591	Dell 1264, 1080, 1178, 1403, 1863	GFM 0171, 1963, 2167, 1268	InFocus 2024, 2199
Aventura 0171	Delta 1369	Gibraltar 0017, 0030	Initial 1603, 1990, 1472
Axion 1937, 1071	Denon 0145	Gibson 1597, 1826, 1834, 2305	Insignia 1423, 1564, 0171, 1204, 1517, 1641, 1660, 1710, 1780, 1892, 1963, 2002, 2049, 2088, 2417, 1013, 1268, 2255, 2620
Bell & Howell 0154	Diamond Vision 1996, 1609	Go Video 0886, 1823, 1831	Inteq 0017
BenQ 1032, 1715, 1853	Digisonic 1826	Go Vision 1071	iRIS 2189
Boxlight 0893	Digital Lifestyles 1765, 1822	GoldStar 0178, 0030	JBL 0054
Bradford 0180	Digital Projection Inc. 1750	Goodmans 0360, 2274	JCB 0000
Brandt Plus 1851	DirecTV 1501	Grundig 0683	Jensen 0761, 0815, 0817, 1299
Brilliant 1007	Disney 2152, 2356	Grunpy 0180	JVC 0463, 0053, 0650, 0731, 1253, 1601, 1774, 1923, 2271, 1067, 2472
Broksonic 0236, 0463, 1929, 1935, 1938, 0002, 0479, 1479, 0695, 0868	Dream Vision 1297	Haier 1034, 1748, 1749, 1753, 2309, 2099, 2500	KDS 1498, 1687
byd:sign 1309	Dumont 0017	Hallmark 0178	KEC 0180
Candle 0030	Durabrand 0463, 0180, 0178, 0171, 1034	Hanns.G 1783	Kenwood 0030
Canon 1396	Dynex 1463, 1780, 1785, 1810, 2049, 2184, 2255, 2388	Hannspree 1348, 1351, 1745, 1783, 1826	KLH 0765, 0767
Carnivale 0030	Electroband 0000	Harley Davidson 0000, 1904	Kolin 1610, 1755, 0150, 1240, 1837
Carver 0054	Electrograph 1755, 1623	Harman/Kardon 0054	Konka 0748, 1831
Celebrity 0000	Electrohome 0463, 1670, 1672, 1607	Harsper 1206	KTV 0180, 0030
Celera 0765	Element 1687, 2183	Harvard 0180	
Changhong 0765		Havermy 0093	
Chimei 1837, 1852, 2072			

LG 1423, 0017, 1265, 0178, 0700, 0856, 1178, 1768, 1934, 1993, 2358, 2424, 0480, 1037, 2485
 Lloyd's 1904, 0000
 Loewe 0136
 LXI 0047, 0054, 0154, 0156, 0178
 MAG 1498, 1687
 Magnasonic 1913, 0593
 Magnavox 1454, 1866, 0054, 0051, 0030, 0706, 0802, 1012, 1198, 1254, 1365, 1525, 1904, 1913, 1931, 1944, 1963, 1990, 2372, 0000, 0593, 1781, 1268, 1472, 2229, 2632, 0821
 Magnin 0240
 Marantz 1454, 0054, 0030, 0704, 0855, 1154, 1398, 2445, 2447
 Matsushita 0250, 0650
 Maxent 1755, 1714, 1757
 Megapower 0700
 Megatron 0178, 0145
 Memorex 0154, 0463, 0150, 0178, 1670, 1892, 1924, 0162, 1037, 1162, 1262, 1607
 MGA 0150, 0178, 0030, 0240
 Midland 0047, 0017, 0051
 Mintek 1603, 1990, 1472
 Mitsubishi 1250, 0093, 0150, 0178, 0836, 0868, 1522, 2010
 Monivision 0700, 0843
 Motorola 0093
 MTC 0060, 0030
 Multitech 0180
 NAD 0156, 0178, 0866, 1156
 NEC 0030, 0497, 0704, 0882, 1398, 1546, 1704, 1797, 1852, 2026, 2144
 NetTV 1755
 NewSonic 1826
 Nexus Electronics 2183
 Nikko 0178, 0030, 0092
 Niko 1581, 1618
 Norcent 0748, 0824, 1365, 1589, 1590, 1591, 2110
 Norwood Micro 1286, 1303
 NTC 0092
 NuVision 1657, 2158
 Olevia 1610, 1144, 1240, 1331
 Onwa 0180
 Optimus 0250, 0154, 0166, 0650, 1913, 1924, 0162, 0593, 1162, 1262
 Optoma 0887, 1348, 1622, 2161
 Optonica 0093
 Orion 0236, 0463, 1463, 1929, 0002, 0479, 1479
 Panasonic 1480, 0250, 1457, 0051, 0650, 1271, 1291, 1410, 1924, 1941, 1946, 1947, 0162, 1162, 1262, 1490, 1362, 1462
 PARK 2104, 2194, 2202
 Penney 0047, 0156, 0051, 0060, 0178, 0030, 1347, 0240
 Petters 1523
 Philco 0054, 0030, 0171, 1271, 1394, 1963
 Philips 1454, 1866, 0054, 0690, 1154, 1744, 1850, 1867, 1961, 2227, 2372, 2374, 1260
 Pilot 0030
 Pioneer 1457, 0166, 0679, 0866, 1260, 1398
 Polaroid 1523, 0765, 2425, 2121, 2120, 2119, 2063, 2002, 1992, 1769, 1767, 1766, 1687, 1538, 1498, 1314, 1286, 1276, 0865, 1013, 2110, 2140, 1482
 Polyvision 0889, 1144
 Portland 0451, 0092, 1661
 Prima 0761, 0783, 0815, 0817, 1785
 Princeton 0700
 Prism 0051
 Projectiondesign 1750
 Proscan 1447, 0047, 0030, 1347, 1922, 2147, 2256, 2450
 Proton 0178, 1546, 1834, 1874
 Proview 1498, 1687
 Proxima 1896
 Pulsar 0017
 Puneet 1546
 Quasar 0250, 0051, 0650, 1924, 0162, 1162
 Radio Shack 0047, 0154, 0180, 0178, 0030, 1904, 0000, 1037
 RCA 1547, 1447, 0047, 0051, 0093, 0090, 0679, 1047, 1147, 1247, 1347, 1781, 1922, 1953, 2002, 2187, 2247, 2434, 0240, 1060, 1013, 2392, 1132
 Realistic 0154, 0180, 0178, 0030
 Relon 1826
 RevolutionHD 1623
 Runco 0017, 0030, 0497, 0603, 1398, 1629, 2444
 Sampo 1755, 0030, 1597, 1618, 2238
 Samsung 0812, 0060, 0702, 0178, 0030, 0587, 0650, 0766, 0814, 1060, 1618, 1632, 1959, 2051, 1014
 Sansui 0463, 0171, 1409, 1670, 1892, 1904, 1929, 1935, 0000, 0479, 1479, 0695, 1607
 Sanyo 0054, 0154, 0088, 0799, 0842, 0893, 1142, 2115, 2236, 2237, 2238, 2448, 2452, 0240
 Sceptre 0878, 1217, 1360, 1599
 Scotch 0178
 Scott 0236, 0180, 0178, 1711
 Sears 0047, 0054, 0154, 0156, 0178, 0171, 1007, 1904, 0000
 Seleco 1297, 1351
 Sharp 0818, 0093, 0491, 0688, 0851, 1602, 2360, 2561, 0630
 Sheng Chia 0093
 Sherwood 1399
 SIM2 Multimedia 1297
 Sole 1623, 2075, 2076
 Sony 0810, 0000, 0834, 1685, 1904, 1925, 2054, 1232
 Soundesign 0180, 0178
 Sova 1952, 1122
 SOYO 1520, 1546, 1746, 1826, 1828, 1829, 1830, 1831, 1832, 1834
 Spectroniq 1498, 1687
 Squareview 0171
 SSS 0180
 Starlite 0180
 Studio Experience 0843
 SunBrite 1420, 1435, 2337
 SuperScan 0093, 0864, 1944, 0821
 Supreme 0000
 SVA 0748, 0587, 0865, 0870, 0871, 0872, 1963
 Sylvania 1864, 0054, 0030, 0171, 0587, 1271, 1314, 1394, 1886, 1913, 1931, 1944, 1963, 1781, 0675, 1268, 2194, 2212, 0821
 Symphonic 0180, 0171, 1904, 1913, 1944, 0000, 0593, 0821
 Synco 1755, 1826
 Syntax 1610, 1144, 1240, 1331
 Tandy 0093
 Tatung 1156, 1254, 1286, 1687, 1719, 1756, 1839, 1857
 Technics 0250, 0051
 Techview 0847, 2004
 Techwood 0051
 Teco 0053, 0092, 1687, 1834, 1838, 2114
 Teknika 0054, 0180, 0150, 0060, 0092
 Telefunken 0702
 Thomas 1904, 0000
 TMK 0178
 TNCi 0017

Toshiba 1524, 0154, 0156, 1256, 1265, 0060, 2233, 2006, 1945, 1936, 1935, 1704, 1656, 1635, 1369, 1356, 1156, 0845, 0832, 0650, 1145, 0695, 1606, 2165, 1045
 Trutech 1723, 2066, 2264
 TVS 0463
 US Logic 1286, 1303
 UTI Technology 2244
 Vector Research 0030
 Venturer 1865, 2195
 VEOS 1007
 Victor 0053
 Vidikron 0054, 1398, 1629
 Vidtech 0178
 Viore 1207, 1684, 1811, 2104, 2352, 2154, 2300, 2580
 Vision 1826, 2305
 Vistron 2142
 Vito 1852, 2365, 2375, 2376, 2377, 2378, 2379, 2380, 2381
 Vizio 1758, 0864, 0885, 1756, 2116
 Wards 0054, 0178, 0030, 0866, 1156
 Waycon 0156
 Westinghouse 1712, 1755, 0451, 0885, 0889, 0890, 1282, 1300, 1577, 1597, 1826, 1834, 2293, 2305, 2513
 White Westinghouse 0463, 1661, 0623
 Wyse 1365
 Yamaha 0030, 0769, 0833, 0839
 Zenith 0000, 1423, 0047, 0017, 0463, 1265, 0178, 0030, 1145, 0145, 0092, 1661, 1904, 1929, 0479, 1479
 Zinwell 2116, 2281

Cable Box Codes

(Including Cable / PVR Boxes)

Amino 1602, 1822
 Bright House 1376, 1877
 Cable One 1376, 1877
 Cablevision 1376, 1877, 1006
 Charter 1376, 1877, 2187
 Cisco 1877, 0877, 1982
 CNS 2350
 Comcast 1376, 1877, 1982, 2576
 Cox 1376, 1877
 Digeo 1187, 2187
 Director 0476
 General Instrument 0476
 Homecast 2301
 i3 Micro 1602
 Insight 1376, 1877
 Jerrold 0476
 Knology 1877
 Mediacom 1376, 1877
 Motorola 1376, 0476, 1187, 1982
 Myrio 1602, 1822
 Pace 1376, 1877, 1982
 Panasonic 1982
 Pioneer 1877, 0877
 Prime 2340
 Rogers 1877
 Scientific Atlanta 1877, 0877
 Sejin 1602
 Shaw 1376
 Sony 1006
 Suddenlink 1376, 1877
 Thomson 1982
 Time Warner 1376, 1877, 2187
 Tivo 2576
 WideOpenWest 1877

Converters

(Including Digital-to-Analog and HDTV)

Access HD 2185
 Airlink 101 2491
 Alpha Digital 2185
 AMTC 2185
 Apex Digital 2478
 Artec 2490
 CASTi 2305
 Channel Master 2365
 Coby 2667
 Coship 2487
 Daewoo 2338
 Daytek 2305
 Digital Stream 2303
 Dish Network 0775, 2470
 Echostar 2470
 GE 2360, 2450
 Goodmind 2450
 Gridlink 2348
 Insignia 1415
 Lasonic 2348
 Magnavox 1563
 Memorex 2486
 MicroGEM 2489
 Motorola 1982
 Pace 1982
 Philco 1563
 RCA 2325, 2454
 Samsung 2592
 Sansonic 2348
 Sunkey 2695
 Sylvania 1563
 Thomson 1982
 Tivax 2185
 Ventura 2454
 Venturer 2454
 Winegard 2454
 Zenith 1415
 Zentech 2491
 Zinwell 2488

Decoders

(Including Digital-to-Analog and HDTV)

DirecTV 0392
 Dish Network 0775
 Epson 1563
 LG 1414, 1415
 Panasonic 1120, 1190, 1490
 Samsung 1190, 1276, 1490
 Sylvania 1563
 Sony 1006
 Tivo 0739
 Zenith 1856

IPTV

Motorola 1376, 0476
 ADB 2254
 Amino 1481, 1615, 1673, 2482
 AT&T 0858
 Chunghwa 1917
 Cisco 2345, 2517
 Motorola 0858, 2378
 Scientific Atlanta 0858, 2345, 2517
 SetaBox 1917
 Verizon 2378

Satellite Receiver Codes

(Including Sat / PVR Boxes)

Amino 1615
 Bell ExpressVu 0775, 1170
 Coolsat 2147
 Crossdigital 1109
 DirecTV 1377, 0392, 0566, 0639, 1639, 1142, 0247, 0749, 1749, 1856, 1076, 1109, 1414, 1442, 1443, 1444, 1609, 0739, 0740
 Dish Network System 0775, 1505, 1170, 1775
 Dishpro 0775, 1505, 1775
 Echostar 0775, 1505, 1170, 1775

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

PVR Codes

Amino 1673
 ABS 1972
 Alienware 1972
 CyberPower 1972
 Dell 1972
 DirecTV 0739, 0740
 Gateway 1972
 Go Video 0614
 Hewlett Packard 1972
 Howard Computers 1972
 HP 1972
 Hughes Network Systems 0740
 Humax 0739, 1797, 1988

Hush 1972
 iBUYPOWER 1972
 Linksys 1972
 Media Center PC 1972
 Microsoft 1972
 Mind 1972
 Niveus Media 1972
 Northgate 1972
 Panasonic 0614, 0616, 1807, 1777
 Philips 0739, 0618, 1818
 Pioneer 1803
 RCA 0880
 ReplayTV 0614, 0616
 Sharp 1893
 Sonic Blue 0614, 0616
 Sony 0636, 1886, 1972
 Stack9 1972
 Sylvania 0000
 Systemax 1972
 Tagar Systems 1972
 Tivo 0739, 0618, 0636, 0740
 Toshiba 1008, 1972, 1988, 1996
 Touch 1972
 Viewsonic 1972
 Voodoo 1972
 ZT Group 1972

Blu-Ray DVD Codes

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

Sylvania 0675, 2194
 Toshiba 1769, 1515, 2705
 Viore 2553
 Vizio 2563
 Xbox 2083
 Yamaha 2298

DVD/VCR Player Codes

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

DVD Player Codes

Accurian 0675, 0675
 Aiwa 0641, 1912
 Akai 0143, 0695, 0770, 1975, 2439
 Alco 0790
 Allegro 0869
 Amphion Media Works 2001, 2016
 AMW 2001, 2016
 Anam 1913
 Apex Digital 0672, 0755, 0794, 0796, 0797, 1004, 1020, 1056, 1061, 1100, 1833, 1915, 1937
 Arrgo 1023
 Audio Authority 2555
 Audiovox 0790, 1041, 1071, 1121, 1122
 Axion 1071
 B & K 0662
 BBK 1224
 Bel Canto Design 1571
 Blue Parade 0571
 Bose 1895, 2023
 Boston Acoustics 1856
 Broksonic 0695, 0868
 California Audio Labs 0490
 Cambridge Sound Works 1916
 Cinea 0831
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 Memorex 1596
 Micromega 1189
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 Norcent 1389, 1751
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 Teac 1074, 1390, 1528, 2261, 2363
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Game Console Codes

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

Audio Accessory Codes

(Including CD Players and Soundbars)
 Accurian 1106
 Acoustic Research 2226
 Aiwa 0157
 Altec Lansing 0607, 1056, 2251
 Apple 1115
 Arcam 0157
 ASI 2454
 B&W 2441
 Bryston 2368
 Burmester 0420

California Audio Labs 0029, 0303
 Cambridge Audio 1731
 Carver 0157, 0179
 Classe 2046
 Creative 2288
 D-Link 1522
 Denon 0003, 0034, 2502, 2815
 DKK 0000
 DLO 1155
 DMX Electronics 0157
 Fisher 0179
 Garrard 0393, 0420
 Genexxa 0032
 GPX 2113
 Griffin 1891
 Harman/Kardon 0157
 Hitachi 0032
 iDeck 1106
 iHome 2152
 iLive 2113
 Integra 0101
 JVC 0072, 1294
 Kenwood 0626, 0028, 0190
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 Klipsch 2553
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 Logitech 2182
 Magnavox 0157, 0038
 Marantz 0626, 0029, 0157, 0038, 0180, 0435
 Mark Levinson 1484
 McIntosh 0256, 0290, 0660, 1703
 MCS 0029
 Memorex 2119
 Miro 0000
 Mission 0157
 Monitor Audio 1106
 MTC0420
 Myryad 0157
 NAD 2096
 Netgear 1785
 NSM 0157

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 Onkyo 1327, 0101
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 0179, 0420, 0468
 Panasonic 0029, 0303, 0388,
 0752
 Parasound 0420
 Philips 0626, 0157, 0274
 Pioneer 1062, 0032, 1087,
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 Polk Audio 0157, 2228
 Primare 2480
 Proceed 0420
 Proton 0157
 QED 0157
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 Quasar 0029
 RCA 1062, 0032, 0053,
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 Roku 1828
 SAE 0157
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 Sanyo 0087, 0179
 Sharp 0180
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 Sonic Frontiers 0157
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 Tascam 0420
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Access HD 2185
 ADB 2254
 Airlink 101 2491
 Alpha Digital 2185
 Amino 1481, 1615, 1673,
 2482

AMTC 2185
 Apex Digital 2478
 Artec 2490
 AT&T 0858
 CASTi 2305
 Channel Master 2365
 Chunghwa 1917
 Cisco 2345, 2517
 Coby 2667
 Coship 2487
 Daewoo 2338
 Daytek 2305
 Digital Stream 2303
 Dish Network 2470
 Echostar 2470
 Epson 1563
 GE 2360, 2450
 Goodmind 2450
 Gridlink 2348
 Insignia 1415
 KoolConnect 1481
 Lasonic 2348
 LG 1415
 Magnavox 1563
 Memorex 2486
 MicroGEM 2489
 Motorola 0858, 2378
 Panasonic 1120
 Philco 1563
 RCA 2325, 2454
 Samsung 1190, 1490, 2592
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 Scientific Atlanta 0858,
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 SetaBox 1917
 Sunkey 2695
 SureWest 1481
 Sylvania 1563
 Tivax 2185
 Ventura 2454
 Venturer 2454
 Verizon 2378
 Winegard 2454
 Zenith 1415
 Zentech 2491
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ABS 1972
 Accurian 0000
 Admiral 0048, 0209, 0020,
 0479
 Adventura 0000
 Aiko 0278
 Aiwa 0037, 0000, 0307
 Akai 0041, 0061, 0106
 Alienware 1972
 Allegro 0039
 America Action 0278
 American High 0035
 Asha 0240
 Audiovox 0037, 0278
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 Bell & Howell 0104
 Broksonic 0184, 0121,
 0209, 0002, 0479, 1479
 Calix 0037
 Canon 0035
 Capehart 0020
 Carver 0081
 CCE 0072, 0278
 Citizen 0037, 0278
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 Craig 0037, 0047, 0240,
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 Crosley 0081, 0000
 Curtis Mathes 0060, 0035,
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 0760
 Cybernex 0240
 CyberPower 1972
 Daewoo 0045, 0278,
 0020, 0561
 Daytron 0020
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 Denon 0042
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 Durabrand 0039, 0038
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 Electrohome 0037, 0043
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 Fuji 0035, 0033
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 Gateway 1972
 GE 0060, 0035, 0240,
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 GoldStar 0037, 0038,
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 Harwood 0072
 Headquarter 0046
 Hewlett Packard 1972
 HI-Q 0047
 Hitachi 0000, 0042,
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 1972
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 JVC 0067, 0041, 0008,
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Marta 0037	Quarter 0046	Thomas 0000
Matsushita 0035, 0162, 1162	Quartz 0046	Tivo 0739, 0618, 0636, 0740, 1996
Media Center PC 1972	Quasar 0035, 0162, 1162	TMK 0240, 0208
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MGA 0240, 0043, 0061	Randex 0037	Vector 0045
MGN Technology 0240	RCA 0060, 0240, 0042, 0149, 0105, 0106, 0202, 0760, 0761, 0880, 1060	Vector Research 0038
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Mind 1972	ReplayTV 0614, 0616	Videomagic 0037
Minolta 0042, 0105	Ricavision 1972	Videosonic 0240
Mitsubishi 0067, 0043, 0061	Runco 0039	Viewsonic 1972
Motorola 0035, 0048	Samsung 0240, 0045, 1014	Voodoo 1972
MTC 0240, 0000	Sanky 0048, 0039	Wards 0060, 0035, 0048, 0047, 0081, 0240, 0000, 0042, 0072, 0149, 0062, 0760
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Pilot 0037	Systemax 1972	
Pioneer 0067, 1803	Totevision 0037, 0240	
Polk Audio 0081	Touch 1972	
Portland 0278, 0020	Tagar Systems 1972	
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Proscan 0060, 0202, 0760, 0761, 1060	Teac 0000, 0041	
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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.

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

General TV Problems	Solution
Power is ON but there is no image on the screen.	<ul style="list-style-type: none"> • Make sure all cables attached to the HDTV are connected to the correct output on the external device. • Adjust brightness, contrast or backlight. • Press the INPUT button on the remote control to select a different input source. • Press the TV button on the top of the remote to return to the TV mode.
Wrong or abnormal colors appear.	<ul style="list-style-type: none"> • Check Color and Tint settings in Picture Menu. • Reset Picture settings. • Check the video cables to make sure they are securely connected. • If you are using an antenna, the signal strength of the channel may be low. Make sure your antenna is connected securely to the TV and move the antenna around the room or close to a window.
Control buttons do not work.	<ul style="list-style-type: none"> • Press only one button at a time. • Press the TV button on the top of the remote to return to the TV mode.
There appear to be image quality issues.	<ul style="list-style-type: none"> • If you are using an antenna, the signal strength of the channel may be low. Make sure your antenna is connected securely to the TV and move the antenna around the room or close to a window. • For best image quality, view HD wide-screen programs where possible. • If HD content is not available view “Standard Definition” from a digital source. • Standard, analog TV will always be noticeably inferior to HD because your digital flat panel TV has video that is many times better than old TV so you will see interference and deficiencies you did not know you had.
You cannot see a picture.	<ul style="list-style-type: none"> • Make sure the power button is ON (VIZIO logo glows white). • Make sure the AC power cord is securely connected to the AC socket. • Press the INPUT button on the remote control to select a different input source. • Press the TV button on the top of the remote to return to the TV mode. • Check the connections of external devices that may be connected to the HDTV. • If your HDTV is connected to a computer, press any button on your keyboard to “wake” your computer. • If you are using an antenna, the signal strength of the channel may be low. Make sure your antenna is connected securely to the TV and move the antenna around the room or close to a window.
You see a distorted picture or hear unusual sound.	<ul style="list-style-type: none"> • You may be getting interference from electrical appliances, cars, motorcycles, or fluorescent lights. If you have not mounted it on the wall, try moving your HDTV to another location to see if this is the cause of the problem.
The picture has abnormal patterns.	<ul style="list-style-type: none"> • Check the connections of external devices that may be connected to the HDTV. • Make sure the specifications of external devices meet the specifications of your HDTV (like resolution). • If you are using an antenna, the signal strength of the channel may be low. Make sure your antenna is connected securely to the TV and move the antenna around the room or close to a window.
There is a bar with logos on the bottom of the screen.	<ul style="list-style-type: none"> • Press EXIT to exit retail mode.
The display image does not cover the entire screen.	<ul style="list-style-type: none"> • If you are in RGB mode (Computer), make sure that H-Size and V-Position in the On Screen Display (OSD) are set correctly. • If you are using TV, AV1, AV2 or Component with 480i input, press the WIDE button on the remote control to scroll through various screen modes.

General TV Problems	Solution
The TV keeps shutting off when I try to open the Quick Menu	<ul style="list-style-type: none"> • Press and hold the Jag wheel for two (2) seconds to open the Quick Menu. Holding it for too long will shut off the TV.
You can see a picture but you cannot hear sound.	<ul style="list-style-type: none"> • Press Volume + (Up) on the remote control. • Press MUTE on the remote control to make sure that MUTE is not ON. • Check your audio settings. The audio may be set to SAP, or the speakers are set to off. • Check the audio connections of external devices that may be connected to the HDTV.
The TV has pixels (dots) that are always dark or colored.	<ul style="list-style-type: none"> • Your HDTV is manufactured using an extremely high level of precision technology, however, sometimes some pixels of your HDTV may not display. Pixel defects within industry specifications are inherent to this type of product and do not constitute a defective product.
You see “noise” or “trash” on the screen.	<ul style="list-style-type: none"> • When your HDTV’s digital capabilities exceed a digital broadcast signal, the signal is up-converted (increased) to match your TV’s display capabilities. Up-converting can cause noise or trash. • If you are using an antenna, the signal strength of the channel may be low. Make sure your antenna is connected securely to the TV and move the antenna around the room or close to a window.
You switch to a different input and the volume changes.	<ul style="list-style-type: none"> • The TV remembers the volume level from the last time you adjusted it. If the sound level is higher or lower from another source, then the volume will change.
You switch to a different input and the screen size changes.	<ul style="list-style-type: none"> • The TV remembers the viewing mode from the last time you used a particular input (AV-1, AV-2, Component, HDMI and TV).
Tips for High-Definition Users.	<ul style="list-style-type: none"> • Your HDTV is an ideal platform for viewing High Definition Content. • Best image quality will be achieved by HDMI. The next best is Component, followed by Composite. • Due to variances in broadcast practices, it is possible some image distortions can occur.
Tips for Letterbox Content Users.	<ul style="list-style-type: none"> • 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.

Remote Control Problems	Solution
Remote control does not work.	<ul style="list-style-type: none"> • Point the remote control directly at the remote sensor on your TV. • Remove any obstacles between the remote control and the remote sensor. • Replace dead batteries with new ones. • Press the TV button on the top of the remote to return to the TV mode.
The remote control is not working with my devices.	<ul style="list-style-type: none"> • Move closer to the device. The minimum operating distance is approximately 30 feet (9.1 meters). • Point the remote control directly at the remote sensor on your device. • Remove any obstacles between the remote control and the remote sensor. • Replace dead batteries with new ones. • Make sure you have pressed the correct device button at the top of the remote.

Remote Control Problems	Solution
The remote control does not work with my device even after programming it.	Set the remote control code correctly. If the code that is listed first for your device does not work, try all the codes for your device in the order in which they are listed in <i>Remote Control Codes</i> .

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

Telephone & Technical Support

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

Customer support and quality service are integral parts of VIZIO's commitment to service excellence. For technical assistance contact our VIZIO Technical Support Department via email or phone.

Email: techsupport@VIZIO.com

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

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

Saturday – Sunday: 8 am to 4 pm

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

VIZIO

Address:

39 Tesla

Irvine, CA 92618, USA

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

Web: www.VIZIO.com

Compliance

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

USA: UL

Canada: CSA

Germany: VDE

UK: BASE/BS

Japan: Electric Appliance Control Act

FCC Class B Radio Interference Statement

NOTE: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy, and if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

1. Reorient or relocate the receiving antenna.
2. Increase the separation between the equipment and receiver.
3. Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
4. Consult the dealer or an experienced radio/TV technician for help.

Notice:

1. The changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.
2. Shielded interface cables and AC AC/DC power adapter, if any, must be used in order to comply with the emission limits.
3. The manufacturer is not responsible for any radio or TV interference caused by unauthorized modification to this equipment. It is the responsibilities of the user to correct such interference.

Chapter 1%Specifications

Product specifications may change without notice or obligation.

Specifications

M421NV Specifications	
Panel	42.02" Diagonal, 16:9 Aspect Ratio
Resolution	1920 x 1080 pixels
Pixel (Dot) Pitch	0.4845mm (H) x 0.4845mm (H)
Display Compatibility	1080P (FHDTV)
Colors	1.06 billion @ 10 bit
Brightness cd/m2 (typical)	450nits
Contrast	Dynamic Contrast Ration: 100,000:1
Response Time	6.5ms (typical)
Viewing Angle	178° (horizontal/vertical)
Inputs	4 x HDMI with HDCP 1 x RF (F connector for internal tuner) 1x Composite Video and Stereo Audio 1x Component YPbPr plus Stereo Audio 1x Computer RGB plus Stereo Audio 3x USB (side)
Outputs	1x 5.1 S/PDIF Optical Digital Audio, 1x Stereo Audio
Features	1080P FHDTV, MEMC, HDMI v1.3, 3D Comb Filter, Digital Audio Amplifier, Dolby Digital for ATSC/QAM, Signal Compatibility: 480I(SDTV), 480P(EDTV), 720P(HDTV), 1080I(HDTV), 1080P(FHDTV), Channel Skip/Add, VIDEO/INPUT Naming Capability, Closed Caption, Parental Control/V-CHIP 2.0, Programmable Timer, PIP/POP, SRS TSHD, SRS TruVolume, HD Game Port, Noise Reduction, 10-bit video processing, MTS Stereo Decoder, Dolby Digital for ATSC/QAM, VESA Mount Compatible, Multimedia
Special Features	<ul style="list-style-type: none"> • MEMC, 120Hz panel • Multimedia(JPEG) • HDMI CEC • Jag Wheel Key • Light sensor • 1080 FHDTV • HDMI v1.3 • DOLBY DIGITAL FOR ATSC/QAM • SRS TSHD • DETACHABLE BASE
	<ul style="list-style-type: none"> • DYNAMIC CONTRAST RATIO TECHNOLOGY • SIGNAL COMPATIBILITY: 480I(SDTV), 480P(EDTV), 720P(HDTV), 1080I(HDTV), 1080P (FHDTV) • CHANNEL SKIP VIDEO/INPUT NAMING CAPABILITY • CLOSED CAPTION • PARENTAL CONTROL/V-CHIP 2.0 • PROGRAMMABLE TIMER
Speakers	2xBuilt-in, 10W Speakers
Panel Life	30,000 hours to half the original brightness
Power	
Input	IEC Connector for direct power line connection
Voltage Range	100~240 Vac at 50/60 Hz



Power Consumption	75W (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	43.89" W x 27.58" H x 9.41" D with stand; 43.89" W x 24.88" H x 1.99" D without stand 1114.7 x 700.4 x 239.1 mm with stand; 1114.7 x 631.9 x 50.6 mm without stand
Net Weight	39.51 lbs with stand; 36.4 lbs without stand 17.9 kg with stand; 16.5 kg without stand
Gross Weight	48.88 lbs; 22.17 kg
Certifications	CSA, CSA-US, FCC Class B
Compliances	Energy Star 4.0. ATSC Spec A/65, EIA/CEA-766-A

Preset PC Resolutions

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

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

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

Resolution through RGB Input

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

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

Warranty

ONE-YEAR LIMITED WARRANTY ON PARTS AND LABOR

(Covers units purchased as new in United States and Puerto Rico Only)

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

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

Parts and Labor

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

Types of Service

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

Units less than 30" must be sent to a VIZIO service center. VIZIO is not responsible for transportation costs to the service center, but VIZIO will cover return shipping to the customer. PRE-AUTHORIZATION IS REQUIRED BEFORE SENDING ANY UNIT IN FOR SERVICE.

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

Limitations and Exclusions

VIZIO's one-year limited warranty only covers defects in materials and workmanship. Items not covered include but are not limited to cosmetic damage, normal wear and tear, misuse, signal issues, power surges, and damages from shipping, acts of God, any sort of customer misuse, installation, customer modifications, adjustments, and set-up issues. Units with unreadable or removed serial numbers, "image burn-in", and routine maintenance are not covered. This warranty does not cover products sold "AS IS", "FACTORY RECERTIFIED", or by a non-authorized reseller.

THERE ARE NO EXPRESS WARRANTIES OTHER THAN THOSE LISTED OR DESCRIBED ABOVE. ANY IMPLIED WARRANTIES, INCLUDING ANY IMPLIED WARRANTY OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE, SHALL BE LIMITED IN DURATION TO THE PERIOD OF TIME SET FORTH ABOVE. VIZIO'S TOTAL LIABILITY FOR ANY AND ALL LOSSES AND DAMAGES RESULTING FROM ANY CAUSE WHATSOEVER SHALL IN NO EVENT EXCEED THE PURCHASE PRICE OF THE DISPLAY. VIZIO SHALL NOT BE RESPONSIBLE FOR LOSS OF USE, COMMERCIAL LOSS, LOST REVENUE OR LOST PROFITS, OR OTHER INCIDENTAL OR CONSEQUENTIAL DAMAGES. SOME STATES DO NOT ALLOW LIMITATIONS ON HOW LONG AN IMPLIED WARRANTY LASTS OR THE EXCLUSION OF INCIDENTAL OR CONSEQUENTIAL DAMAGES, SO THE ABOVE LIMITATIONS OR EXCLUSIONS MAY NOT APPLY TO YOU. THIS WARRANTY GIVES YOU SPECIFIC LEGAL RIGHTS, AND YOU MAY ALSO HAVE OTHER RIGHTS, WHICH VARY FROM STATE TO STATE. THIS WARRANTY IS SUBJECT TO CHANGE WITHOUT NOTICE. CHECK www.VIZIO.com FOR THE MOST CURRENT VERSION.

Personal Data

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

ZERO BRIGHT PIXEL DEFECT GUARANTEE

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

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