



Dear VIZIO Customer,

Congratulations on your new VIZIO GV52L FHDTV10A LCD Television purchase. Thank you for your support. For maximum benefit of your set, please 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 GV52L FHDTV10A Television.

For assistance, please call 949-428-2525 or e-mail us at techsupport@vizio.com.

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

We recommend you register your VIZIO GV52L FHDTV10A either at our website www.vizio.com or fill in your registration card and mail it in. 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 GV52L FHDTV10A.

Purchase Date _____

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

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THIS PRODUCT HAS BEEN DESIGNED AND TESTED FOR COMPLIANCE WITH REGULATORY SAFETY CERTIFICATIONS

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

- To avoid the risk of electric shock or component damage, switch off the power before connecting other components to the GV52L FHDTV10A.
- Unplug the power cord before cleaning the GV52L FHDTV10A LCD. A damp cloth is sufficient for cleaning the GV52L FHDTV10A. Do not use a liquid or a spray cleaner for cleaning the product. Do not use abrasive cleaners.
- Always use the accessories recommended by the manufacturer to insure compatibility.
- When moving the GV52L FHDTV10A from an area of low temperature to an area of high temperature, condensation may form on the housing. Do not turn on the GV52L FHDTV10A immediately after this to avoid causing fire, electric shock or component damage.
- Do not place the GV52L FHDTV10A on an unstable cart, stand, or table. If the GV52L FHDTV10A falls, it can injure a person and cause serious damage to the appliance. Use only a cart or stand recommended by the manufacturer or sold with the GV52L FHDTV10A.
- A distance of at least 3 feet should be maintained between the GV52L FHDTV10A and any heat source, i.e. radiator, heater, oven, amplifier etc. Do not install the product close to smoke. Operating the product 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 the GV52L FHDTV10A and to protect it from overheating, be sure these openings are not blocked or covered. Do not place the GV52L FHDTV10A in a bookcase or cabinet unless proper ventilation is provided.
- Never push any object into the slot on the GV52L FHDTV10A cabinet. Do not place any objects on the top of the product. It could short circuit parts causing a fire or electric shock. Never spill liquids on the GV52L FHDTV10A.
- The GV52L FHDTV10A 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.
- The power cable must be replaced when using different voltage from that specified in the User Manual. For more information, contact your dealer.
- The GV52L FHDTV10A 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 as a safety feature. If your outlet does not accommodate the three-wire plug, have an electrician install the correct outlet, or use an adapter to ground the appliance safely. **Do not defeat the safety purpose of the grounded plug.**
- Do not overload power strips and extension cords. Overloading can result in fire or electric shock.
- The wall socket shall be installed near the equipment and shall be easily accessible.
- Only the marked power source can be used for the product. Any power source other than the specified one 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 the unit during a lightning storm or when it will not be used for long period of time. This will protect the GV52L FHDTV10A from damage due to power surges.
- Do not attempt to repair or service the product yourself. Opening or removing the back cover may expose you to high voltages, the risk of electric shock, and other hazards. If repair is required, please contact your dealer and refer all servicing to qualified service personnel.
- Keep the product away from moisture. Do not expose this appliance to rain or moisture. If water penetrates into the product, unplug the power cord and contact your dealer. Continuous use in this case may result in fire or electric shock.
- Do not use the product 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 the product yourself.
- Avoid using dropped or damaged appliances. If the product 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 the product may cause fire or electric shock.
- Do not install the product in an area with heavy dust or high humidity. Operating the product in environments with heavy dust or high humidity may cause fire or electric shock.
- Follow instructions for moving the product. Ensure that the power connector and any other cables are unplugged before moving the product.
- Hold the power connector when removing the power cable. Pulling the power cable itself may damage the wires inside the cable and cause fire or electric shock. When the product will not be used for an extended period of time, unplug the power connector.
- To avoid risk of electric shock, do not touch the connector with wet hands.
- Insert batteries in accordance with instructions. Incorrect polarities may cause damage and leakage of the batteries, operator injury and contamination of the remote controller.
- If any of the following occurs please contact the dealer:
 - The power connector fails or frays.
 - Liquid sprays or any object drops into the GV52L FHDTV10A.
 - The Display is exposed to rain or other moisture.
 - The Display is dropped or damaged in any way.
 - The performance of the Display changes substantially.
- Operating environment. Temperature: 40°F ~ 95°F, Humidity: 10% ~ 90% non-condensing, Altitude: 0 ~ 6500ft (0 ~ 2000m)

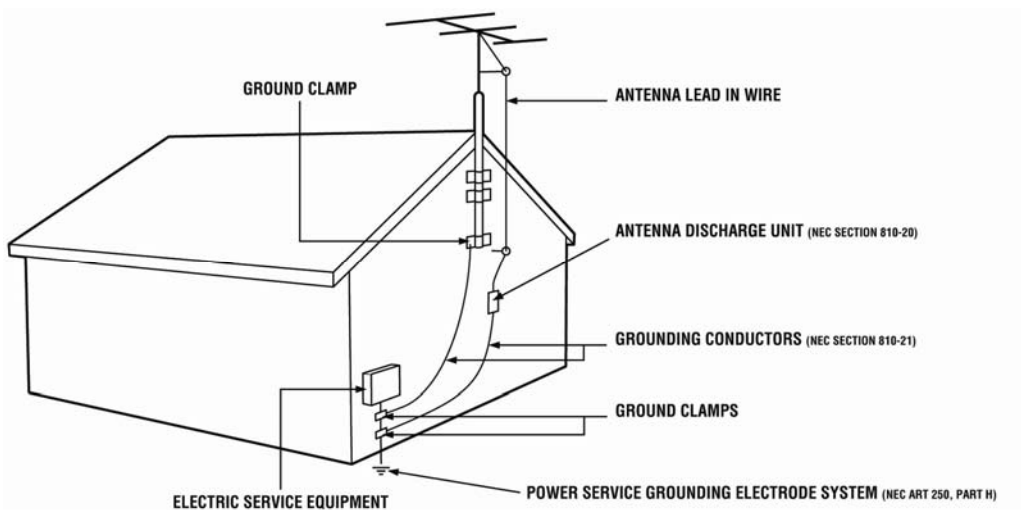


Television Antenna Connection Protection

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.



Opening the Package

Your VIZIO GV52L FHDTV10A and its accompanying accessories are carefully packed in a cardboard carton that has been designed to protect it from transportation damage. Now you have opened the carton, check that the GV52L FHDTV10A is in good condition and that all of the accessories are included.

The GV52L FHDTV10A weighs approximately 110lbs and about 50 ½" wide x 34 ½" tall. We strongly advise that you have at least 2 people to unpack and install the HDTV.

The glass surface can easily be scratched or broken, so please handle the product gently and never place the 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 GV52L FHDTV10A

VIZIO Remote Control by Universal Electronics

AV Cable (Yellow, Red and White Connectors)

Power Cord

Safety Strap

VIZIO Bezel and Screen Cleaning Cloth

This User Manual

Quick Setup Guide

Registration Card

VIP Services Brochure

2 (Double A) Batteries for the Remote Control

Warranty Card and Repair Information



Additional Certified Accessories for the VIZIO GV52L FHDTV10A are sold separately

Wall Mounts
High Definition Cables
Extra or replacement Remote

VIZIO also offers Installation Services and Extended Warranty Services for your VIZIO GV52L FHDTV10A

To purchase or inquire about additional accessories and services for your VIZIO product, visit our web site at www.vizio.com or call us toll free at 888-VIZIOCE (888-849-4623)

Installation Preparation

Please read this user manual carefully before installing your VIZIO HDTV.

The power consumption of the TV is about 420W; please use the power cord designated for TV. 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 defeated.

The TV should be installed on a flat surface to avoid tipping. For proper ventilation, you must allow space between the back of the TV and the wall. If you would like to mount your TV on the wall, please see below 'Preparing Your LCD HDTV for Wall Mounting' for additional information. Avoid installing the TV in places with high humidity, dust or smoke so as not to shorten the service life of the electronic components. Install the TV in landscape orientation; any 90° clockwise or counter-clockwise installation may induce poor ventilation and excessive component damage.

VIZIO offers professional installation services. Please contact VIZIO for more information on these services at 888-VIZIOCE (888-849-4623) or www.vizio.com.

Attaching the Safety Strap

For when the GV52L FHDTV10A is not mounted on the wall with a Wall Mount, a Safety Strap has been included to attach the HDTV to the wall to reduce the chance of the HDTV being pulled over. The Safety Strap should be used with common sense practice such as ensuring that children (or adults) do not climb up, grabbing the top of the HDTV and pulling it onto themselves.

1. Fix one end of the strap to the wall. If you have a drywall finish it is preferable to fix it to a stud, using a washer underneath the screw head. If you have a solid wall you should use a lag bolt, again using a washer under the nut.



2. Fix the other end of the Safety Strap to one of the upper wall mounting holes on the back of the HDTV, using a washer under the screw head.



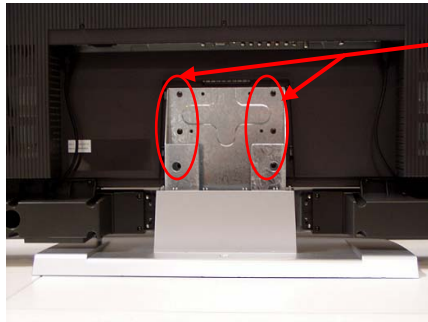
Preparing Your LCD HDTV for Wall Mounting

The VIZIO GV52L FHDTV10A can either be kept on the stand base or mounted on the wall for viewing. If you choose to mount the GV52L FHDTV10A on the wall, please follow the instructions below for removing the stand base.

To find the perfect mount for the VIZIO GV52L FHDTV10A, browse VIZIO's certified mount selection at www.VIZIO.com or call directly 888-VIZIOCE (888-849-4623).

To remove the stand base

Unplug all of the cables and cords from your GV52L FHDTV10A. Place the GV52L FHDTV10A face down on a soft and flat surface (blanket, foam, cloth, etc) to prevent any damage to the TV. Pull up on the plastic handle to remove the stand cover off by releasing the retaining plastic tabs, there should not be a reason to exert excessive force when pulling on this plastic strap.

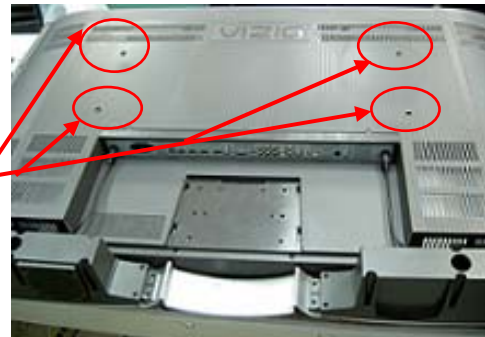


Remove the six (6) screws (screws' specs: M5, 1.0 Pitch, 15mm) so that the stand base can be removed. Gently remove the stand base.



Now, the GV52L FHDTV10A can fit securely to a mount (sold separately) by utilizing the mounting holes in the center of the back panel of the TV. Please make sure to read the instructions of your specific mount to properly hang the GV52L FHDTV10A.

The pitch of the mounting holes is 630mm horizontally and 200mm vertically. The screw type required is metric M8, 1.25mm pitch. The length of the screws will depend on the thickness plate being attach to the TV set, our brackets come with 25mm long screws.



To find the perfect mount for the VIZIO GV52L FHDTV10A, browse VIZIO's certified mount selection at www.vizio.com or call directly 888-VIZIOCE (888-849-4623).



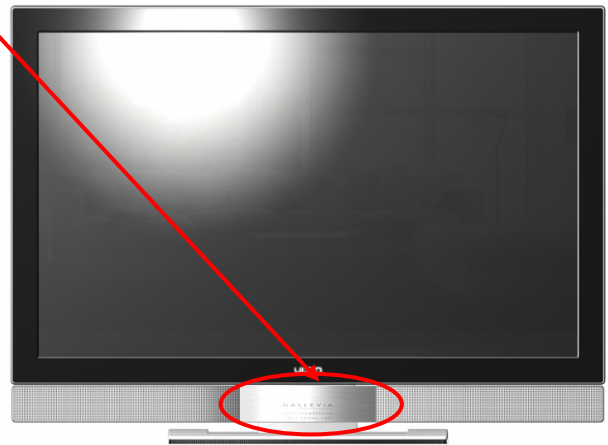
To remove the speakers

If you wish to remove the attached speakers as well and use your Home Theatre System for the audio, please follow the procedure below.

1. Unplug the speaker wires from the GV52L FHDTV10A at the rear of the TV set by carefully pulling down on these two 5-DIN pin connectors, one at a time.



2. To remove the nameplate; make sure that these four screws (T3, 8mm long, self tapping) are removed. These screws are located behind the plate.



3. Remove the four (4) screws that hold the right speaker in place and remove the speaker. The screws are identified by arrows molded into the plastic. After removing speaker, the screws could be left in place for future use if speaker needs to be reinstalled.



4. Repeat step 3 for the left speaker. After removing speaker, the screws could be left in place for future use if speaker needs to be reinstalled.

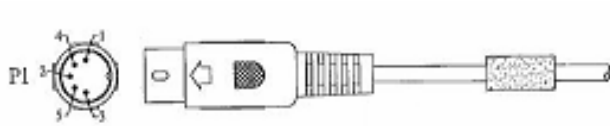
Note: Do not attempt to remove speaker assembly without removing nameplate beforehand; plate will be easily removed after step 2 is done.



Relocate Detachable Speakers

If you decide to relocate or place speaker's assemblies away from the TV set, it is recommendable to follow the procedure or steps shown below.

1. Select the place and then measure the distance from new location to the TV set.
2. Make sure that the extension cables follow the pattern shown below.
3. Please notice that you will need a female (5-pin) connector at one end and a male (5-pin) connector at the other end to make the speaker's cable extensions.



WIRING TABLE

PLUG P1	WIRE COLOR	CONNECTOR
1	Red	P2
2	NC	
3	Black	P3
4	NC	
5	NC	
Shell	Drain	

4. Make sure that each color of the wire matches to the designated pin and hole's patterns.

Note: This section is exclusive for TV owners who want to place the speakers away from the TV set.



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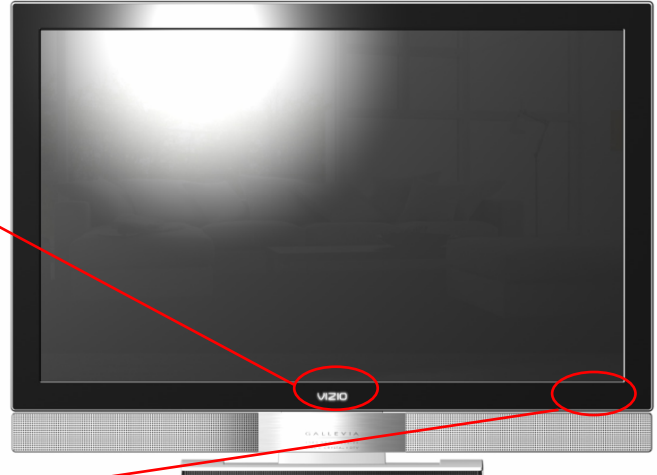


Chapter 1 Basic Controls and Connections


1.1 Front Bezel

Power 'VIZIO' light – The VIZIO name lights white when powered on and orange when powered off.

Remote Control Sensor – This is the window through which all of the remote control signals pass to the sensor. Point the remote control directly at this window for the best response to the remote signal.



1.2 Right Side Panel Controls

Power () – Switch the GV52L FHDTV10A on by pressing the button once. Press the button again to the GV52L FHDTV10A off.

Menu – This button activates the On Screen Display (OSD). If a sub-menu is active, pressing this button will return to the previous menu level.

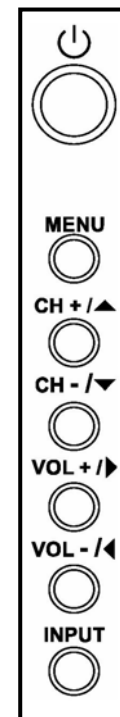
Channel ▲/▼ – Use these buttons to step up or down the TV channels. While the OSD is active, these buttons function as up and down controls in the OSD menus.

Volume ◀/▶ – Use these buttons to increase or decrease to the speaker volume. While the OSD is active, these buttons function as left and right controls in the OSD menus.

Input (Enter) – Repeated pressing of this buttons steps through the input sources in the following sequence: TV, AV1 (S-Video or Video), AV2, Component 1, Component 2, RGB, HDMI1, HDMI2, HDMI3 and HDMI4. Once you have stepped through the entire sequence, you will return to the beginning.

Additionally, when the OSD is active, this button confirms the menu function to be adjusted. When the OSD is not active, pressing this button will display the current input mode.

MAIN
TV
AV1
AV2
COMPONENT1
COMPONENT2
RGB
HDMI1
HDMI2
HDMI3
HDMI4



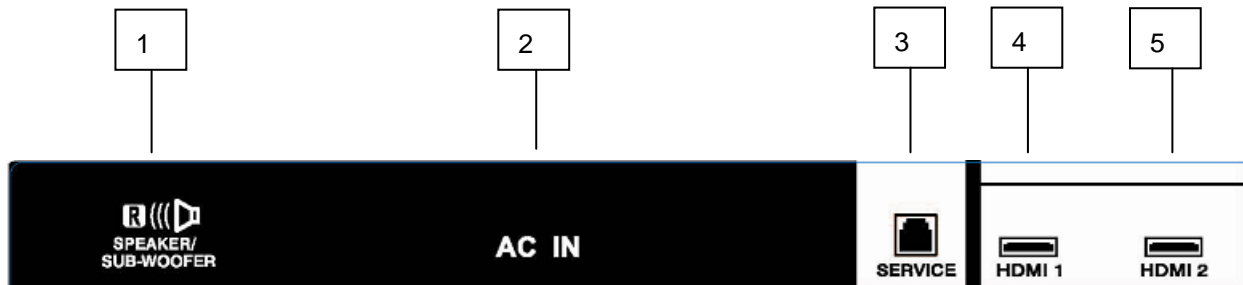
1.3 Left Side Connections

1. **AV1 (S-Video) In** – Connect the primary source for composite video devices, such as a VCR or video game. Use the white and red connectors to connect the external audio from the same source. Keep in mind that S-Video connections are only images signals; therefore, a set of audio cables is needed to hear the sound. This is placed on the left hand side edge of the TV. The S-Video, if connected, will take priority over AV1 RCA connector.



1.4 Rear Panel Connections

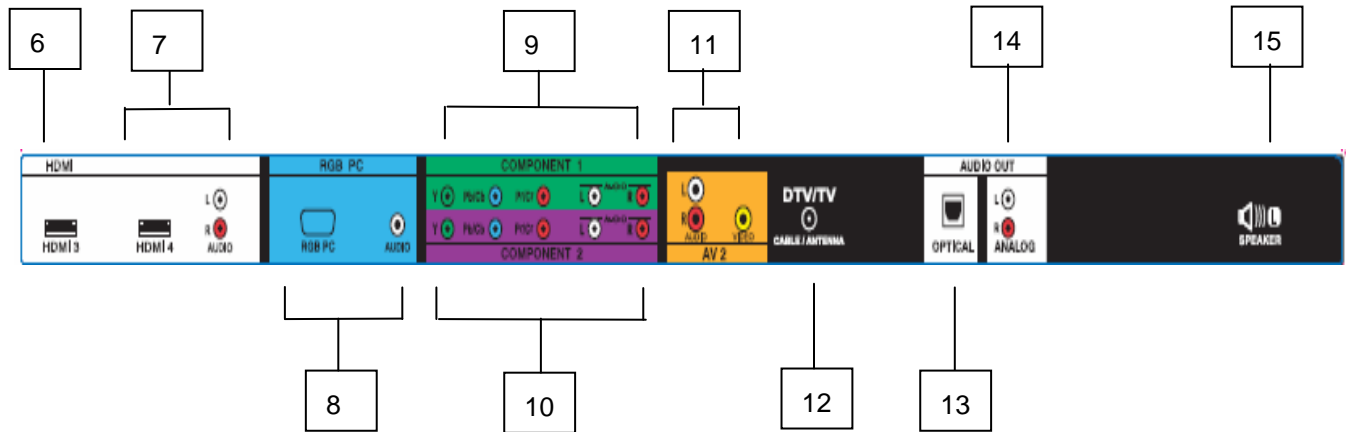
Left Hand Side Portion



1. **SPEAKER** – Connection for right speaker.
2. **AC IN** – Plug-in the supplied AC Power Cord here.
3. **SERVICE** – This custom communication port is for factory service only.
4. **HDMI 1** – Connect the primary source for digital video such as a DVD multimedia player or set top box through this all digital connector. The white color band on the rear of the TV indicates this connection. Your VIZIO Certified HDMI cables are available for purchase from www.VIZIO.com or by calling 888-VIZIOCE (888-849-4623).
5. **HDMI 2** – Connect the primary source for digital video such as a DVD multimedia player or set top box through this all digital connector. The white color band on the rear of the TV indicates this connection. Your VIZIO Certified HDMI cables are available for purchase from www.VIZIO.com or by calling 888-VIZIOCE (888-849-4623).



Right Portion



6. **HDMI 3** – Connect the primary source for digital video such as a DVD multimedia player or set top box through this all digital connector. The white color band on the rear of the TV indicates this connection. Your VIZIO Certified HDMI cables are available for purchase from www.VIZIO.com or by calling 888-VIZIOCE (888-849-4623).
7. **HDMI 4** – Connect the secondary source for digital video such as a DVD multimedia player or set top box through this all digital connector. The white color band on the rear of the TV indicates this connection. For users who want to connect to a DVI enabled device, use a DVI-HDMI cable and connect the Analog Audio output of the device to the L+R AUDIO here. . Your VIZIO Certified HDMI and HDMI-DVI cables are available for purchase from www.vizio.com or by calling 888-VIZIOCE (888-849-4623).
8. **RGB PC** – Connect the video and audio from a computer here. The blue color band on the rear of the TV indicates this connection. To supply the audio signal either a straight 1/8" to 1/8" stereo cable or a Y-adapter cable (L+R audio to 1/8" stereo plug) is needed. Please consult your computer manual before to find out what is your choice.
9. **COMPONENT 1 (YPb/CbPr/Cr with Audio L/R)** – Connect the primary source for component video devices such as a DVD Player or set top box here. From left to right, use green for Y, blue for Pb (or Cb), red for Pr (or Cr), white for left audio and red for right audio inputs. The green color band on the rear of the TV indicates this connection.
10. **COMPONENT 2 (YPb/CbPr/Cr with Audio L/R)** – Connect the secondary source for component video devices such as a DVD Player or set top box here. From left to right, use green for Y, blue for Pb (or Cb), red for Pr (or Cr), white for left audio and red for right audio inputs. The purple color band on the rear of the TV indicates this connection.
11. **AV2 IN** – Connect the secondary source for composite video devices, such as a DVD or video game. Connect the audio output of the source into L+R audio connectors (red and white connectors). The orange color band on the rear of the TV set indicates this connection.
12. **DTV/TV** – Connect to an antenna or digital cable (out-of-the-wall, not from Cable Box) for Digital TV.*
13. **OPTICAL DIGITAL AUDIO OUT** – When the DTV input is selected for viewing, the digital audio associated with digital programming will be available on this SPDIF Optical connector for connection to your home theatre system. The white color band on the rear of the TV indicates this connection.
14. **AUDIO OUT** – Connect the audio from the LCD HDTV to an external device, such as a home theatre system, external amplifier or stereo. Speakers cannot be connected directly to here. The white color band on the rear of the TV indicates this connection.
15. **SPEAKER** – Connection for left speaker.



* For digital TV stations in your area visit www.antennaweb.org



1.5 VIZIO Universal Remote Control

The VIZIO Universal Remote Control is a comprehensive remote that can be used to control up to four different components. The remote button functions are explained on the following pages.

Remote LED – Blinks when the remote operates.



This button starts all programming of the Remote Control.



Press this button to turn the TV on from the Standby mode. Press it again to return to the Standby mode.



This button selects a programmed DVD player.



This button selects a programmed Audio Receiver/Amp/Home Theatre System.



This button selects a programmed cable TV set-top box or a satellite TV set-top box.



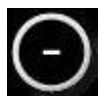
This button has been pre-programmed to select the codes to operate the VIZIO HDTV.



Use these buttons to select a channel or enter a password.

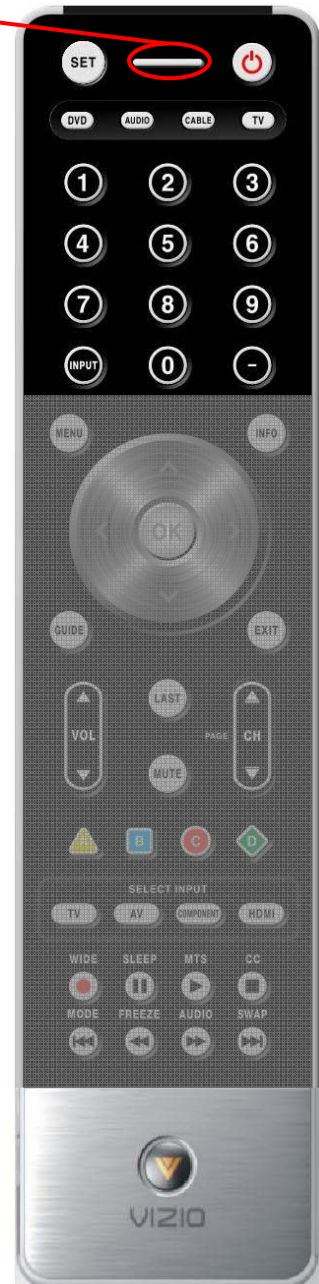


This button allows the user to cycle through the inputs.



This DASH button is for the DTV mode. When selecting a digital channel directly use this button for the separation of main and sub-channels. For example, channel 28-2 would be selected by the button sequence 2 8 DASH 2.

NOTE: This is a programmable remote supporting up to 4 devices (see TV, VCR, CABLE, DVD buttons at the top of the remote). If the remote is not working with your VIZIO TV, press the TV button on the remote to set the functions back to TV.





Use this button for the On-Screen Display (OSD) menus.



This button displays the image and system information display.



Use the NaVigation Wheel to operate the On-Screen Display (OSD) after it has been activated by pressing the MENU button.

Use the **OK** button to select your chosen option in On-Screen Display (OSD) menus.



GUIDE – This button displays program information. Note: this button is only functional for DTV.



EXIT – This button exits the On-Screen Display (OSD) menus.



VOL (+ or -) – These buttons turn the volume up or down.



LAST – This button recalls the previously viewed channel.



MUTE – This button turns the sound on and off.



CH (+ or -) – These buttons change the channels up or down.





When CABLE is selected and the code to match your Cable Box has been entered, this button will operate the Cable Box the same as this button on your Cable Remote.



When CABLE is selected and the code to match your Cable Box has been entered, this button will operate the Cable Box the same as this button on your Cable Remote.



When CABLE is selected and the code to match your Cable Box has been entered, this button will operate the Cable Box the same as this button on your Cable Remote. If you have a Satellite Box and the code to match your Satellite Box has been entered, this button will operate the Satellite Box the same as this button on your Satellite Remote.



When CABLE is selected and the code to match your Cable Box has been entered, this button will operate the Cable Box the same as this button on your Cable Remote. If you have a Satellite Box instead and the code to match your Satellite Box has been entered, this button will operate the Satellite Box the same as this button on your Satellite Remote.



Press this button to select TV programming.



Repeated pressing of this button will switch between AV1 and AV2 inputs.



Repeated pressing of this button will switch between Component 1 and Component 2 inputs.



Repeated pressing of this button will switch between HDMI 1, HDMI 2, HDMI 3 and HDMI 4 inputs.



This button cycles through the available screen formats. The options are Wide, Normal, Zoom, Panoramic. Note: in RGB/PC mode the options are 4:3 and 16:9. This button also starts recording when using the remote to control your Cable/Satellite Box or VCR.



This button allows the user to select the sleep options by adjusting the timer in 30 minute increments up to 120 minutes. This button also Pauses playback when using the remote to control your Cable/Satellite Box or VCR.



This button will select the MTS options of Stereo, SAP or Mono in standard TV mode and alternate audio channels, where available, in DTV mode. This button also starts Playback when using the remote to control your Cable/Satellite Box or VCR.



This button will select the Closed Caption mode. The options are OFF, CC1, CC2, CC3, CC4 and if Digital Cable Service is the signal; you would get Service1 through Service6, depending on your local company. This button also Stops playback/recording when using the remote to control your Cable/Satellite Box or VCR.



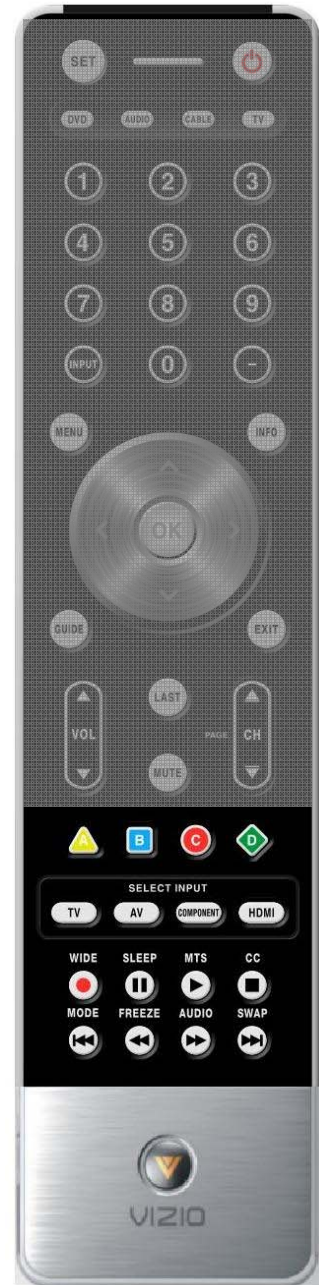
Press this button to "Freeze-Frame" the current screen. Press this button again the continue playing. This button also skips to the previous chapter when using the remote to control your Cable/Satellite Box or DVD Player.



Press this button to switch the audio from the main screen to the sub-screen while in PIP or POP mode.



While in PIP/POP mode; pressing SWAP will switch the displays from the main screen to the sub-screen or vice versa.



1.5.1 Insertion of Batteries in the Remote Control

Insert two AA batteries into the remote control. Make sure that you match the (+) and (-) symbols on the batteries with the (+) and (-) symbols inside the battery compartment. Re-attach the battery cover.

Precautionary Tips for Inserting the Batteries:

Only use the specified AA batteries.

Do not mix new and old batteries. This may result in cracking or leakage that may pose a fire risk or lead to personal injury.

Inserting the batteries incorrectly may also result in cracking or leakage that may pose a fire risk or lead to personal injury.

Dispose of the batteries in accordance with local laws and regulations.

Keep the batteries away from children and pets.



1.5.2 Remote Control Range

Point the remote control at the remote control sensor to transmit the commands.

Do not place any obstacles between the remote control and the receiver window.

The effective range of the remote control is approximately 30 feet (10 meters) from the front of the receiver window, 30° to the left and right, 20° up and down.

1.5.3 VIZIO Universal 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.



Chapter 2 Connecting Equipment

2.1 Which Video Connection Should I Use?

The VIZIO GV52L FHDTV10A has six different ways to connect your video equipment from a basic connection to the most advanced for digital displays.

Connection Quality (type)	Connector	Rear Panel Color Codes	Description
Best (digital)		White	HDMI (High-Definition Multimedia Interface) - It is the first and only industry-supported, uncompressed, all-digital audio/video interface. HDMI provides an interface between any audio/video source, such as a set-top box, DVD player, or A/V receiver and an audio and/or video monitor, such as a digital television (DTV), over a single cable.
Best (digital) ----- Good (analog)		Black	DTV Coaxial RF. When used for MPEG2 encoded bit streams from ATSC broadcast programming, this input takes advantage of the High Definition content. ----- TV Coaxial RF. This is the connection for standard NTSC TV using antenna or cable.
Best (analog)		Blue	RGB PC (VGA) – This video input has separate red, green and blue color components. The signal carries horizontal and vertical sync information on the green signal. This is most commonly used for PC input.
Better (analog)		Green and Purple	Component 1/2 - The video signal is separated into three signals, one containing the black-and-white information and the other two containing the color information. This enhancement over S-Video takes advantage of the superior picture provided by progressive scan DVD players and HDTV formats.
Good (analog)		Left hand side panel of TV set	S-Video (AV1) - The video signal is separated into two signals, one containing the black-and-white information and the other containing the color information. Separating the color in this way avoids 'cross color' effects where closely spaced black and white lines are erroneously displayed in color. It also enables text to be displayed more sharply.
Good (analog)		Orange	AV2 (Composite) - The complete video signal is carried through this single pin connector. This is the most commonly used video connection.

Note: For more info refer to the Quick Start Guide



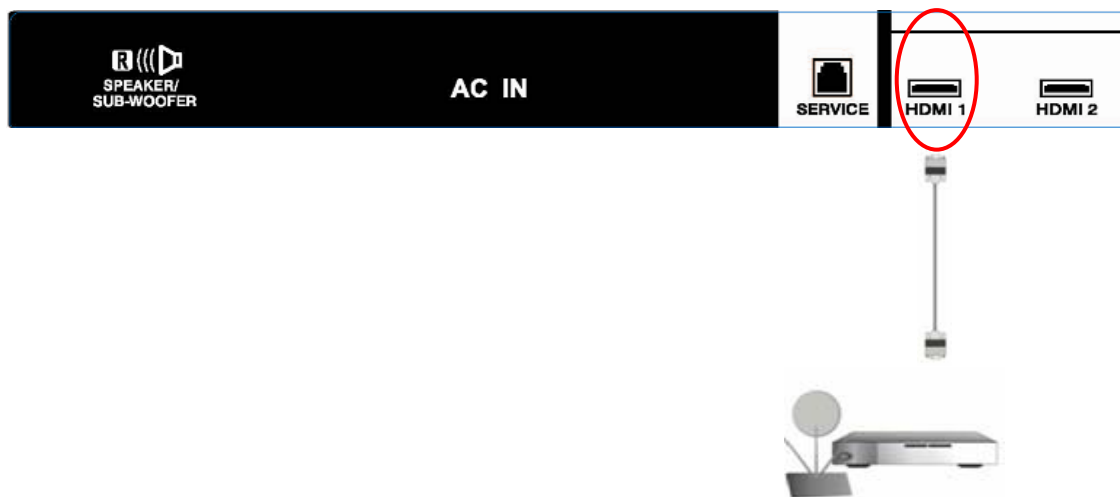
2.2 Connecting Your Cable or Satellite Box

2.2.1 Using HDMI

Cable and Satellite Boxes that have a HDMI digital interface should be connected to the HDMI input of the LCD HDTV for optimal results.

Note: To maintain the display quality, use a VIZIO certified HDMI cable that is 10 meters or less. See www.vizio.com or call 1-888-VIZIOCE (1-888-849-4623) for details.

Connecting your Cable or Satellite Box (Best)



1. Turn off the power to the LCD HDTV and HDTV Set-Top Box.
2. Connect a HDMI cable to the HDMI output of your HDTV Set-Top Box and the other end to the HDMI Input (white color area) at the rear of the LCD HDTV.
3. Turn on the power to the LCD HDTV and HDTV Set-Top Box.
4. Select HDMI using the INPUT button on the remote or side of the LCD HDTV, or directly by pressing the HDMI button on the Remote Control.

Note:

- c) The HDMI input on the LCD TV supports High-bandwidth Digital Content Protection (HDCP). HDCP encrypts the transmission between the video source and the digital display for added security and protection.
- d) If you are already using the HDMI 1 input for another component, or you do not want to use the HDMI 1 input for the Set-Top Box, you can connect the Set-Top Box to the HDMI2, HDMI3 or HDMI4 connection.
- e) Refer to your HDTV Set-Top Box user manual for more information about the video output requirements of the product or consult your cable or satellite operator.



For Cable or Satellite Boxes with DVI:



1. Turn off the power to the LCD HDTV and HDTV Set-Top Box.
2. Using a HDMI-DVI cable, connect the DVI end to your HDTV Set-Top Box and the HDMI end to the HDMI Input (white color area) at the rear of the LCD HDTV.
3. Using an audio cable (white and red connectors), connect the cable to the audio output connectors associated with the DVI output on your HDTV Set-Top Box and connect the other end to the audio connectors associated with the HDMI input (white area) at the rear of the LCD HDTV.
4. Turn on the power to the LCD HDTV and HDTV Set-Top Box.
5. Select HDMI using the INPUT button on the remote or side of the LCD HDTV, or directly by pressing the HDMI button on the Remote Control.

Note: The HDMI Input is for HD Video and will support 1920x1080 at 60Hz from a PC for best quality picture.

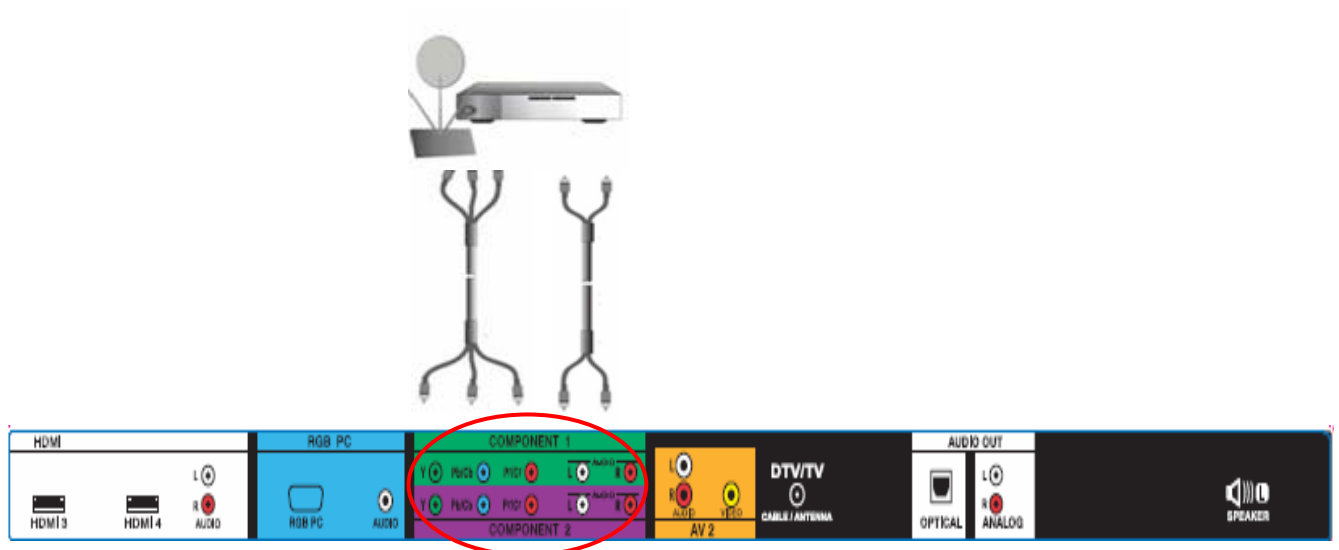
Note:

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



2.2.2 Using Component Video

Connecting your Cable or Satellite Box (Better)



1. Turn off the power to the LCD HDTV and HDTV Set-Top Box.
2. Connect the Y (green color) connector on your HDTV Set-Top Box to the corresponding Y (green color) connector in the Component 1 group (green color area - row of connectors nearest to you when viewing from the rear of the TV) at the rear of the LCD HDTV.
3. Connect the PbCb (blue color) connector on your HDTV Set-Top Box to the corresponding Pb (blue color) connector in the Component 1 group (green color area - row of connectors nearest to you when viewing from the rear of the TV) at the rear of the LCD HDTV.
4. Connect the PrCr (red color) connector on your HDTV Set-Top Box to the corresponding Pr Cr (red color) connector in the Component 1 group (green color area - row of connectors nearest to you when viewing from the rear of the TV) at the rear of the LCD HDTV.
5. Using an audio cable (white and red connectors), connect the cable to the audio output connectors associated with the Component output on your HDTV Set-Top Box and connect the other end to the audio connectors associated with the Component 1 input (green color area) at the rear of the LCD HDTV.
6. Turn on the power to the LCD HDTV and HDTV Set-Top Box.
7. Select Component 1 using the INPUT button on the remote or side of the LCD HDTV, or directly by pressing the Component button on the Remote Control.

Note:

- a) If you are already using the Component 1 input for another component, or you do not want to use the Component 1 input for the Set-Top Box, you can connect the Set-Top Box to the Component 2 connections coded by the purple area.
- b) Refer to your HDTV Set-Top Box user manual for more information about the video output requirements of the product or consult your cable or satellite operator.



2.3 Connecting Coaxial (RF)

2.3.1 Using Your Antenna or Digital Cable for DTV



1. Turn off the power to the LCD HDTV.
2. Connect the coaxial (RF) connector from your antenna or digital cable to the DTV/TV CABLE/ANTENNA connector at the rear of the LCD HDTV.
3. Turn on the power to the LCD HDTV.
4. Select DTV using the INPUT button on the remote or side of the LCD HDTV, or directly by pressing the TV button on the Remote Control.



Note:

- a) Not all digital TV broadcasts are High Definition (HD). Refer to the program guides, or consult your cable, satellite or TV station operator.
- b) Digital broadcasts are not available in all areas. Refer to www.antennaweb.org for detailed information.
- c) Make sure the antenna and coaxial cable are correctly grounded.
- d) For Professional antenna installation contact VIZIO at www.VIZIO.com or call 1-888-VIZIOCE (1-888-849-4623).



2.3.2 Using Your Antenna or Cable for TV



1. Turn off the power to the LCD HDTV.
2. Connect the coaxial (RF) connector from your antenna or cable to the DTV/TV CABLE/ANTENNA connector at the rear of the LCD HDTV
3. Turn on the power to the LCD HDTV.
4. Select TV using the INPUT button on the remote or side of the LCD HDTV, or directly by pressing the TV button on the Remote Control.



2.3.3 Using the Antenna or Cable through your VCR



1. Turn off the power to the LCD HDTV and VCR.
2. Connect the “Output to TV”, “RF Out” or “Antenna Out” connector on the rear of your VCR to the DTV/TV CABLE/ANTENNA connector at the rear of the LCD HDTV.
3. Turn on the power to the LCD HDTV and VCR.
4. Select TV using the INPUT button on the remote or side of the LCD HDTV, or directly by pressing the TV button on the Remote Control.



Note: If you have an off-air antenna or cable TV, connect it to the “Antenna In” connector on the rear of your VCR.



2.4 Connecting Your DVD Player

You have several options for connecting your DVD player to your GV52L FHDTV10A – HDMI, Component, S-Video and Composite (AV) inputs. Based on your home theater configuration, you can decide which option is the right one for you.

2.4.1 Using HDMI

DVD players that have a digital interface such as HDMI (High Definition Multimedia Interface) should be connected to the HDMI input of the VIZIO GV52L FHDTV10A for optimal results.

Note: To maintain the display quality, use a VIZIO certified HDMI cable available up to 10 meters or less. See www.VIZIO.com or call 1-888-VIZIOCe (1-888-849-4623) for details.

Connecting your DVD Player (Best):



1. Turn off the power to the LCD HDTV and DVD player.
2. Connect a HDMI cable to the HDMI output of your DVD player other end to the HDMI Input (white color area) at the rear of the HDTV. and the LCD
3. Turn on the power to the LCD HDTV and your DVD player.
4. Select HDMI using the INPUT button on the remote or side of the LCD HDTV, or directly by pressing the HDMI button on the Remote Control.

Note:

- a) If you are already using the HDMI1 input for another component, or you do not want to use the HDMI 1 input for the DVD player, you can connect the DVD player to the HDMI2, HDMI3 or HDMI4 connection.
- b) Refer to your DVD player user manual for more information about the video output requirements of the product.



For DVD Players with DVI:



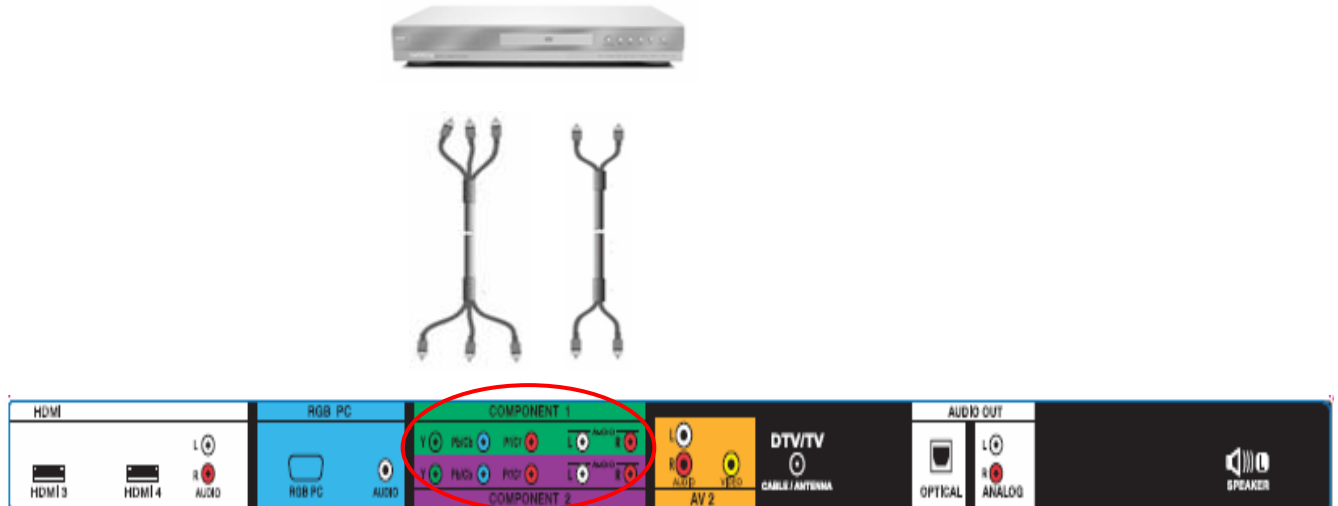
1. Turn off the power to the LCD HDTV and DVD player.
2. Using a HDMI-DVI cable, connect the DVI end to your DVD player and the HDMI end to the HDMI Input (white color area) at the rear of the LCD HDTV.
3. Using an audio cable (white and red connectors), connect the cable to the audio output connectors associated with the DVI output on your DVD player and connect the other end to the audio connectors associated with the HDMI input (white area) at the rear of the LCD HDTV.
4. Turn on the power to the LCD HDTV and your DVD player.
5. Select HDMI using the INPUT button on the remote or side of the LCD HDTV, or directly by pressing the HDMI button on the Remote Control.

Note: Refer to your DVD player user manual for more information about the video output requirements of the product.



2.4.2 Using Component Video

Connecting your DVD Player (Better):



1. Turn off the power to the LCD HDTV and DVD player.
2. Connect the Y (green color) connector on your DVD player to the corresponding Y (green color) connector in the Component 1 group (green color area - row of connectors nearest to you when viewing from the rear of the TV) at the rear of the LCD HDTV.
3. Connect the PbCb (blue color) connector on your DVD player to the corresponding PbCb (blue color) connector in the Component 1 group (green color area - row of connectors nearest to you when viewing from the rear of the TV) at the rear of the LCD HDTV.
4. Connect the PrCr (red color) connector on your DVD player to the corresponding PrCr (red color) connector in the Component 1 group (green color area - row of connectors nearest to you when viewing from the rear of the TV) at the rear of the LCD HDTV.
5. Using an audio cable (white and red connectors), connect the cable to the audio output connectors associated with the Component output on your DVD player and connect the other end to the audio connectors associated with the Component 1 input (green color area) at the rear of the LCD HDTV.
6. Turn on the power to the LCD HDTV and DVD player.
7. Select Component 1 using the INPUT button on the remote or side of the LCD HDTV, or directly by pressing the Component button on the Remote Control.

Note:

- a) If you are already using the Component 1 input for another component, or you do not want to use the Component 1 input for the DVD player, you can connect the DVD player to the Component 2 connections coded by the purple area.
- b) Refer to your DVD player user manual for more information about the video output requirements of the product.



2.4.3 Using S-Video (AV1)

Connecting your DVD Player (Good):



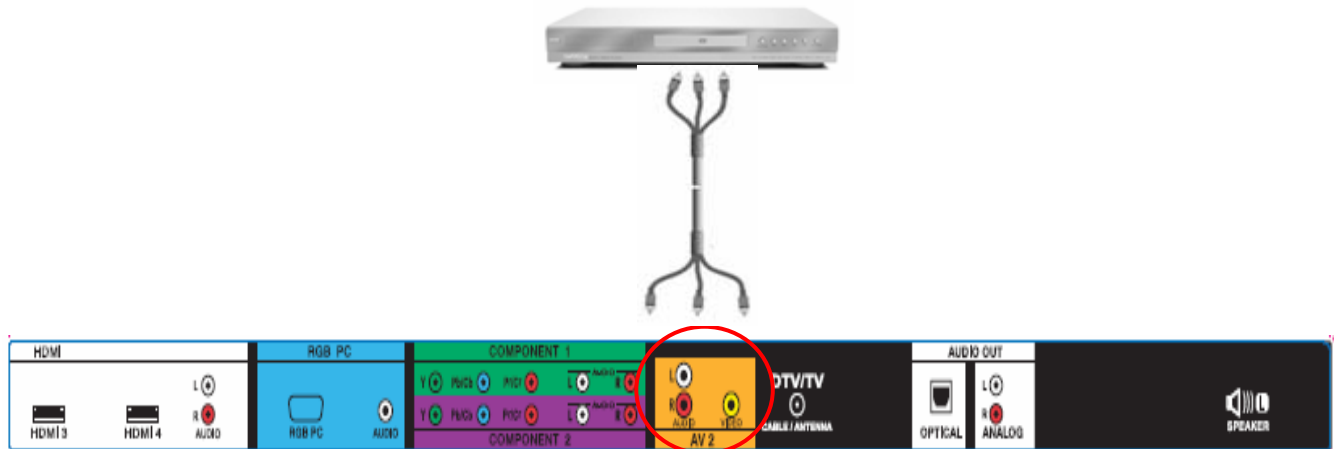
1. Turn off the power to the LCD HDTV and DVD player.
2. Connect the S-Video jack on the rear of your DVD player to the S-Video jack in the AV1 on the left hand side of the LCD HDTV.
3. Using an audio cable (white and red connectors), connect the cable to the audio output connectors associated with the S-Video output on your DVD player and connect the other end to the audio connectors associated with the AV1 input on the left hand side of the LCD HDTV.
4. Turn on the power to the LCD HDTV and DVD player.
5. Select AV1 using the INPUT button on the remote or side of the LCD HDTV, or directly by pressing the AV button on the Remote Control.

Note: Refer to your DVD player user manual for more information about the video output requirements of the product.



2.4.4 Using Composite (AV) Video

Connecting your DVD Player (Good):



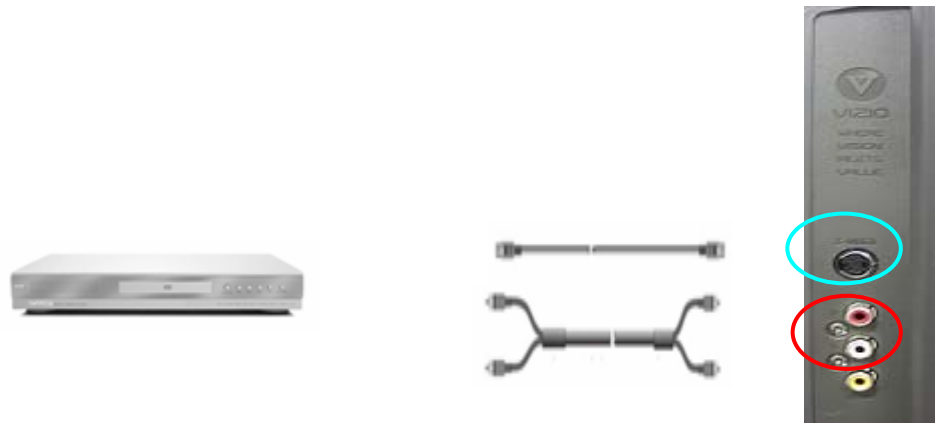
1. Turn off the power to the LCD HDTV and DVD player.
2. Connect the Video (yellow color) connector on your DVD player to the Video (yellow color) connector in the AV2 input (orange color area) row of connectors at the rear of the LCD HDTV.
3. Connect the R (red color) and L (white color) audio connectors on your DVD player to the corresponding R (red color) and L (white color) audio input connectors in the AV input (orange color area) row of connectors at the rear of the LCD HDTV.
4. Turn on the power to the LCD HDTV and DVD Player.
5. Select AV2 using the INPUT button on the remote or side of the LCD HDTV, or directly by pressing the AV button on the Remote Control.

Note:

- a) If you are already using the AV2 input for another component, or you do not want to use the AV2 input for the DVD player, and you are not using the S-Video input for another component, you can connect the DVD player to the AV1 connections on the side of the LCD HDTV.
- b) Refer to your DVD player user manual for more information about the video output requirements of the product.



2.5 Connecting Your VCR or Video Camera



1. Turn off the power to the LCD HDTV and VCR or Video Camera.
2. Connect the S-Video jack on the rear of your VCR or Video Camera to the S-Video jack in the AV1 group at the left hand side panel of the LCD HDTV.
3. Using an audio cable (white and red connectors), connect the cable to the audio output connectors associated with the S-Video output on your VCR or Video Camera and connect the other end to the audio connectors associated with the AV1 input at the left hand side panel of the LCD HDTV.
4. Turn on the power to the LCD HDTV and VCR or Video Camera.
5. Select AV1 using the INPUT button on the remote or side of the LCD HDTV, or directly by pressing the AV button on the Remote Control.

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



Connecting an external Receiver/Amp



1. Turn off the power to the LCD 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 ANALOG OUT (white area) audio connectors at the rear of the LCD HDTV.
3. Turn on the power to the LCD HDTV and Receiver/Amp.
4. Then press the MENU button on the remote control to open the On-Screen Display (OSD) menu.
5. Press the on the remote control to select the Audio menu.
6. Press the on the remote control to select SPEAKERS.
7. Press the on the remote control to select OFF so that the sound from the LCD HDTV will now be routed through your Receiver/Amp system.



Note:

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

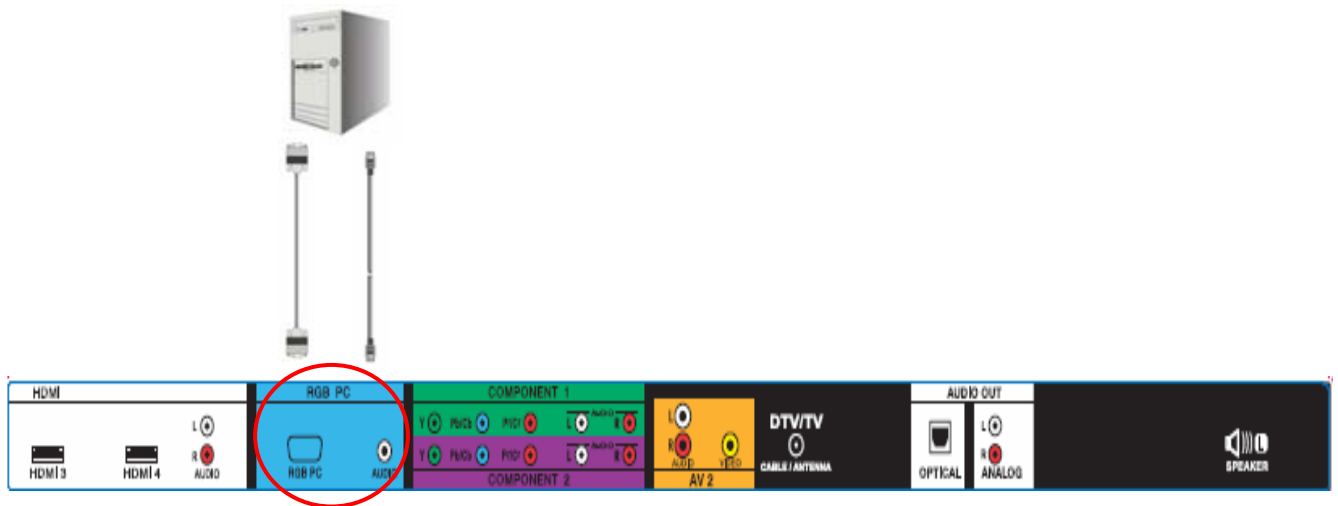
Optical Output of Audio received with HD Program



If your sound system has a SPDIF (optical) digital audio input you can connect it to the optical DIGITAL AUDIO OUT (white area) at the rear of the LCD HDTV. This is active when receiving digital audio with the programs from the DTV/TV CABLE/ANTENNA input.



2.6 Connecting a PC Computer



1. Turn off the power to the LCD HDTV and PC Computer.
2. Connect a 15-pin D-Sub RGB (VGA) cable to the RGB output of your pc computer and the other end to the RGB PC input (blue area) at the rear of the LCD HDTV.
3. Connect the Audio Out on your pc computer to the RGB PC Audio input (blue area) at the rear of the LCD HDTV.
4. Turn on the power to the LCD HDTV and PC Computer.
5. Select RGB using the INPUT button on the remote or side of the LCD HDTV, or directly by pressing the RGB button on the Remote Control.

Note:

- a) For a better picture quality when connecting a pc computer through RGB PC, set your pc computer timing mode to VESA 1360x768 at 60Hz. For the best picture quality, please refer to the pc or graphic card's user guide to find out if it is capable of an output of 1920x1080 at 60Hz resolution when using the parameters and values given to you on Section 2.6.2 of this User's Manual by way of VESA Reduce Blanking timing.
- b) Refer to your pc computer user manual for more information about the video output requirements of the product.
- c) A RGB (VGA) cable and stereo mini jack cable are not included and can be purchased at an electronics store.



2.6.1 Preset PC Resolutions

If connecting to a PC through the RGB PC input, set the TV timing mode to VESA 1360x768 at 60Hz for better picture quality (refer to the graphic card’s user guide for questions on how to set this timing mode). Please see the table below for the factory preset resolutions. Also see chart in Section 2.6.2, for the best resolution that can be obtained through RGB PC input when video card supports 1920x1080 resolution.

Resolution	Refresh (Hz)	H.Freq (kHz)	V.Freq (Hz)	H.Sync	V.Sync	Pixel Freq (MHz)
640x480	60	31.5	59.94	N	N	25.175
640x480	75	37.5	75.00	N	N	31.500
720x400	70	31.46	70.08	N	P	28.320
800x600	60	37.9	60.317	P	P	40.000
800x600	75	46.9	75	P	P	49.500
800x600	85	53.7	85.06	P	P	56.250
1024x768	60	48.4	60.01	N	N	65.000
1024x768	75	60.0	75.03	P	P	78.750
*1920x1080	60	66.7	60.00	N	N	136.5

NOTES: N = Negative, P = Positive, * = Primary Mode

2.6.2 Resolution (1920x1080) through RGB (15-Pin VGA) 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 136.5MHz. 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	32	1
Sync Width	32	3
Back Porch	64	27
Total	2048	1111
Frequency	66.7 kHz	60 Hz
Sync Polarity	N	N
Pixel Rate (MHz)	136.5	
Refresh Rate (Hz)	60	

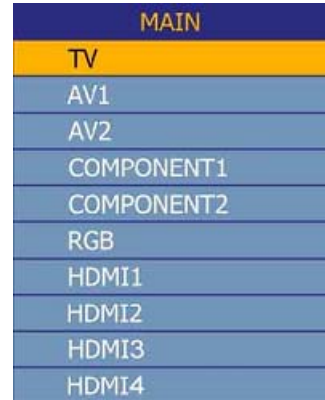


Chapter 3 Setting Up to Watch Television

For 'Preparing Your LCD HDTV for Wall Mounting', see page 6.

3.1 Basic LCD HDTV Start Up

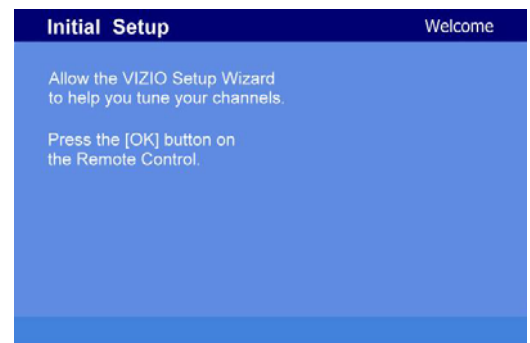
1. **Connecting the Power Cable**
Connect the power cord to the power cord connector on the back of the LCD HDTV, and then plug the power cord into an AC wall socket.
2. **Connect Audio and Video Cables to the LCD HDTV**
(see pages 19 ~ 32 for detailed steps)
3. **Turning Power On**
Once all the components are connected, press the Power ON button on the side of the LCD HDTV, or press the Power ON (Red) button on the remote control.
4. **Select Input Source**
Select the Input Source for the LCD HDTV by pressing the INPUT button on the side of the TV or using the Input button on the remote control. Pressing this button will cycle you through the following options: TV, AV1, AV2, Component 1, Component 2, RGB, HDMI1, HDMI2, HDMI3 and HDMI4.
5. **Using DTV and TV with an Antenna or Cable**
If an antenna or cable source is connected to the DTV/TV input, you will need to select TV using the INPUT button on the remote control or the side of the LCD HDTV, or directly by pressing the TV button on the remote control, and Auto Scan for the available TV channels.





Note: If you do not see this option within the OSD, you might have selected the wrong input in the previous steps and you will need to repeat step 4 (above) to select the correct input source.

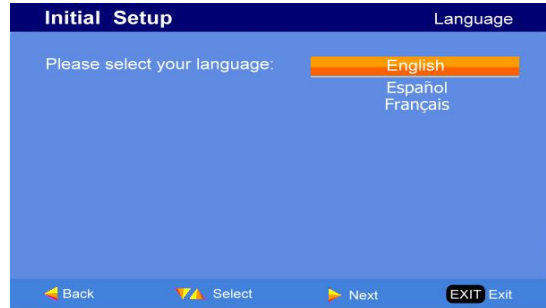
- a. The screen will show 'snow' and the first Initial Setup OSD panel.


Press the OK button on the remote control.




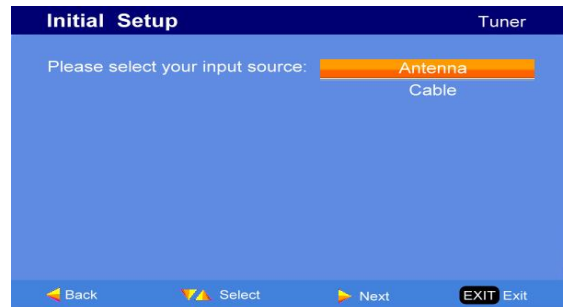
- b. The Language choice screen will be displayed; the default English option is highlighted. If you wish to change the OSD language to Français or Español, press the  button on the remote control to select the language you want.

Press the  button on the remote to go to the next screen.




- c. The Tuner screen will be displayed; default choice is Antenna. If you are using Cable, press the  button to highlight CABLE.

Press the  button on the remote to go to the next screen.



- d. The Channel Scan screen will be displayed; default choice is Scan. Press the OK button on the remote control to commence the search for available channels to be stored into memory.

If you do not want to scan for channels at this time, press the  button on the remote to highlight Skip Scan and then press the OK button.

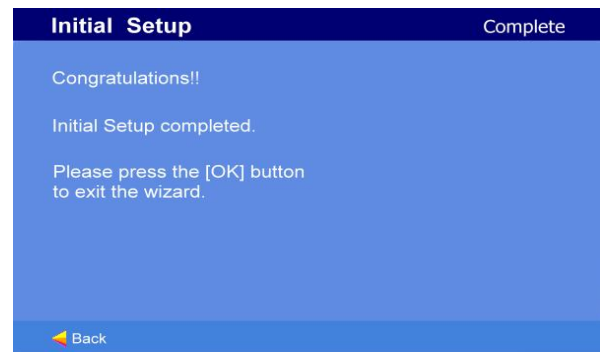
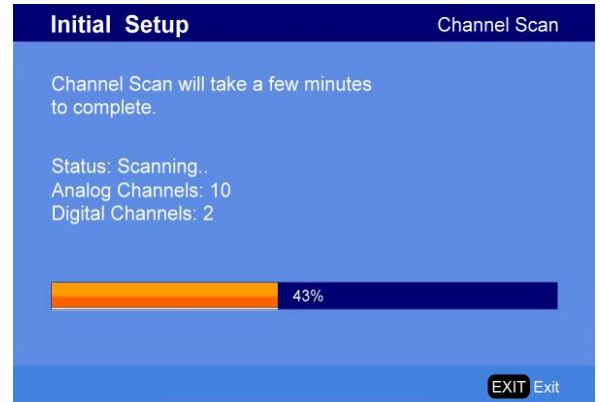


- e. Press the OK button to start the search. An information panel will be displayed showing the progress of the search for analog (NTSC) and Digital (ATSC) channels.

Note: DTV digital broadcast is not available in all areas. Refer to www.antennaweb.org to get information about availability in your area, type of antenna and in which direction to point your antenna. The channel availability through cable depends upon which channels your cable operator supplies in Clear QAM; consult your cable operator for more information.

- f. When finished, the Complete screen will be displayed to inform that the HDTV has completed the Initial Setup.

Press the OK button on the remote control to exit and begin watching TV.



3.2 Watching a TV Program

Before you start watching TV, please 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 or on the side of the LCD HDTV. The status of the VIZIO the front will change from orange to white. When changing the color will be bright for a second or two and then dim to a lower light level.
2. There are 3 options for selecting your programming:
 - a. If you are using an antenna or cable connected through the DTV/TV CABLE/ANTENNA input, you can select TV directly by pressing the TV button on the remote, or by pressing the INPUT button on the remote or on the side of the LCD HDTV.
 - b. If you are watching broadcasts through a cable or satellite set-top box connected by an HDMI cable, select HDMI1, HDMI2, HDMI3 or HDMI4 directly by pressing the HDMI button on the remote, or by pressing the INPUT button on the remote or on the side of the LCD HDTV.
 - c. If you are watching broadcasts through a cable or satellite set-top box connected by a Component (YPbPr) cable, select Component 1 or Component 2 directly by pressing the Component button on the remote, or by pressing the INPUT button on the remote or on the side of the LCD HDTV.

Note: You should be able to see a picture. If you do not, make sure that all of the LCD HDTV connections are secure and you have selected the correct video input source.

3. When using option 2a, press the Channel buttons on the remote or the CH +/- buttons on the side of the LCD HDTV to change the channel. Note: The Channel buttons, on the side of the LCD and on the remote, control will not work if you are watching a program using HDMI, Component 1, Component 2, AV1 and AV2 inputs.

3.3 Adjusting Basic LCD HDTV Settings

Volume

To increase the volume, press and hold the VOL+ or VOL- button on the side of the LCD HDTV or remote control until the desired level is reached.

TV Channels

To step up or down through the available TV channels, press the CH+ or CH- button on the side of the LCD HDTV or remote control once for the next or previous channel, or hold it depressed until the desired channel is reached. Note: Channel up and down will only operate in DTV and TV modes.

Wide

Using this feature, you can watch video content in different size modes on the TV. Press the WIDE button on the remote control to switch among the modes.

For more information see Section 4.18 – Viewing Modes, on page 57



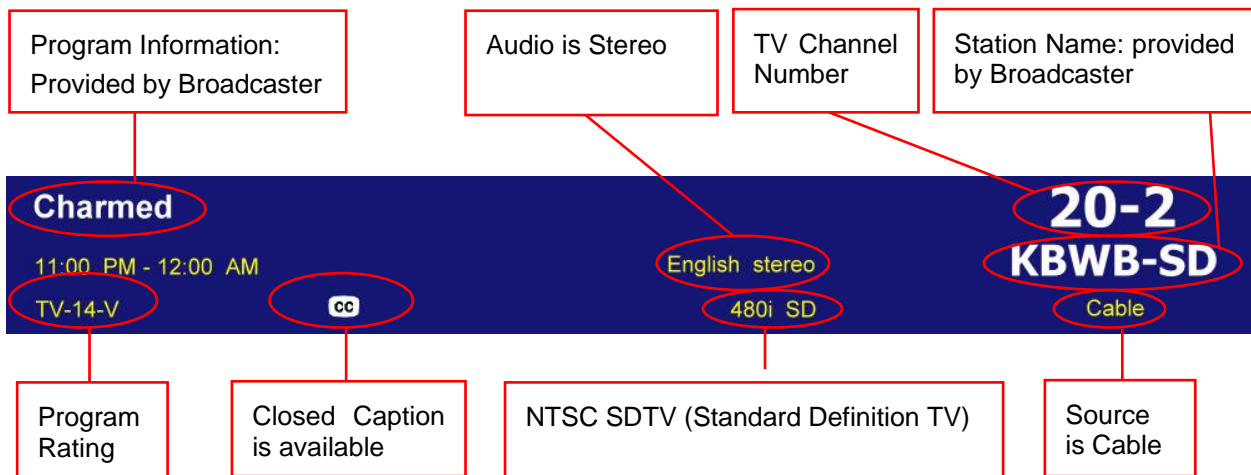
3.4 Program Information

Press the GUIDE button on the remote and program information for the channel you are watching will be displayed on the screen with the live program content in a small window in the lower left corner of the panel.



Press the or button to scroll up or down the channels. Each time you pause at a channel, the program list will update with the program schedule for the channel and the window will show the live program for that channel. Press the GUIDE button to exit this feature. Information on HDTV Status

When you change TV channels or inputs, or press the INFO button on the remote, an Information Banner is displayed for a few seconds to tell you the status of the LCD HDTV.







Chapter 4 Advanced Adjustment of HDTV

4.1 Using the On Screen Display (OSD)

The remote control or the control buttons on the right hand side of the TV can control all the function settings. The On Screen Display (OSD) allows you to adjust the save 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: Picture, Audio, Setup, TV and Parental. The main menu options may very depending on your selected input source.

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

1. Press the MENU button on the remote control or the side of the TV and the Picture menu will be shown on the screen. Press the  or  button on the remote control or the VOL + or VOL – button on the side of the TV to select one of the other menu options.
2. Press the  or  button on the remote control or the VOL + or VOL – button on the side of the HDTV to select one of the other menu options.





Picture

Audio



TV

Setup

Parental

3. Once the menu option is displayed, press the  or  button on the remote control or the CH + or CH – button on the side of the TV to select one of the items to adjust.






4. Press the  or  button on the remote control or the VOL + or VOL - button on the side of the HDTV to begin adjustment of the item.
5. Press OK when finished.
6. Repeat steps 2 through 5 to adjust additional options within this menu.
7. Once the adjustments are completed press the MENU button repeatedly to exit the OSD completely.

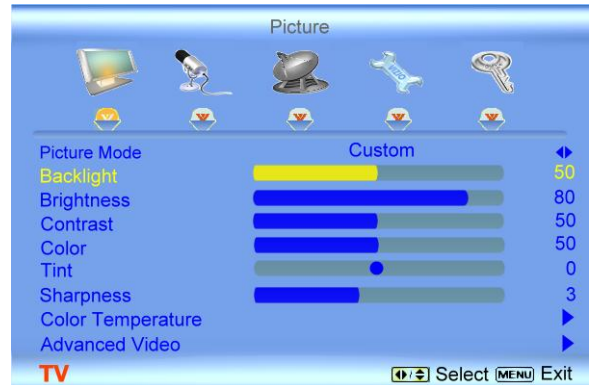


4.2 DTV / TV Input Picture Adjustment

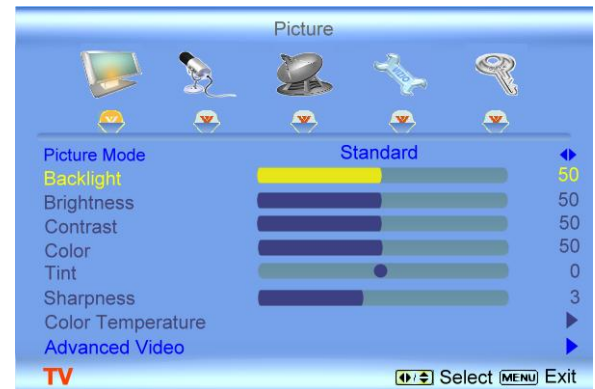
4.2.1 Picture Mode

When the MENU button is pressed, the On Screen Display (OSD) appears on the PICTURE menu. Press the  button to highlight the Picture Mode selection.

Use the  or  button to choose from Custom, Standard, Movie and Game.

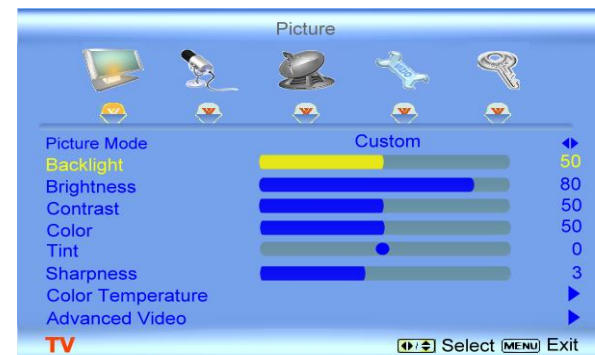





If Standard, Movie or Game is chosen for the Picture Mode, then the only Picture adjustment available for you is for the Backlight; the rest are preset.



4.2.2 Backlight

Press the  button to highlight the Backlight selection.



Press the  button to start adjusting the brightness of the Backlight and the menu page will disappear and be replaced by a small Backlight Indicator Bar so you can see the light level between the minimum and maximum available levels. Use the  or  button to adjust the level.






The Backlight level does not affect the Brightness (black level) or Contrast (white level) of the picture, it adjusts the lamp current and this affects the overall brilliance of the picture.



4.2.3 Contrast

Press the  button to highlight the Contrast selection.




Press the  button to start adjusting the contrast and the menu page will disappear and be replaced by a small Contrast Indicator Bar so you can see the contrast level between the minimum and maximum available levels. Use the  or  button to adjust the level.



The Contrast adjusts 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.

4.2.4 Brightness

Press the  button to highlight the Brightness selection.




Press the  button to start adjusting the brightness and the menu page will disappear and be replaced by a small Brightness Indicator Bar so you can see the brightness level between the minimum and maximum available levels. Use the  or  button to adjust the level.



The Brightness adjusts the 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.

4.2.5 Color


Press the  button to highlight the Color selection.


Press the  button to start adjusting the color and the menu page will disappear and be replaced by a small Color Indicator Bar so you can see the color level between the minimum and maximum available levels. Use the  or  button to adjust the level.



The Color adjusts the amount of color in the picture.

4.2.6 Tint

Press the  button to highlight the Tint selection.

Press the  button to start adjusting the tint and the menu page will disappear and be replaced by a small Tint Indicator Bar so you can see the tint adjustment to the left or right of the nominal position.

Use the  or  button to adjust the level.






The Tint adjusts 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 as the case of this is often too much color.



4.2.7 Sharpness


Press the  button to highlight the Sharpness selection.



Press the  button to start adjusting the sharpness and the menu page will disappear and be replaced by a small Sharpness Indicator Bar so you can see the sharpness level between the minimum and maximum available levels. Use the  or  button to adjust the level.



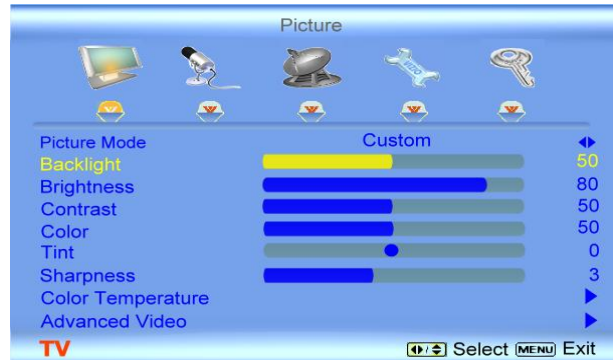
The Sharpness adjusts the sharpness of the picture.


4.2.8 Color Temperature




Press the  button to highlight the option for Color Temperature selection.

Press the  or  button if you want to choose the Custom, Cool, Normal or Warm option.

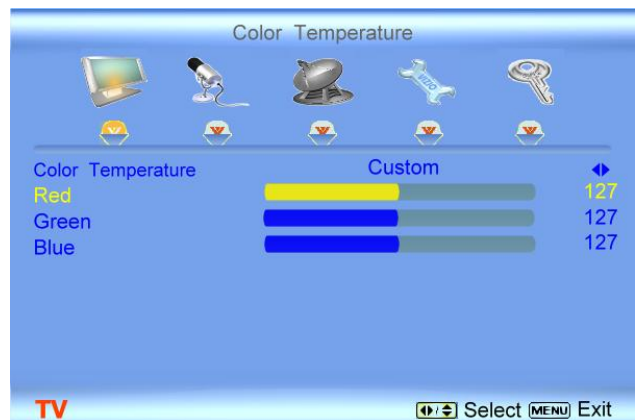
The default is Cool which has a 9300k value setting.




If you choose the Custom option, then a new menu will be displayed showing the primary color items, Red, Green and Blue. Press the  button to highlight the color you wish to adjust.

Press the  button to start adjusting the color and the menu page will disappear and be replaced by a small Color (Red, Green or Blue) Indicator Bar as before. Use the  or  button to adjust the color.

Press the OK button when finished. Repeat the procedure to adjust the other colors if desired.






4.3 Advanced Video




Press the  button to highlight the option for Advanced Video selection and press the OK button. A new menu will be displayed showing the advanced functions available for fine tuning of the picture.






4.3.1 DNR

Press the  button to highlight DNR (Dynamic Noise Reduction). Use this feature to diminish picture artifacts caused by the digitizing of image motion content that may be present in the picture. Press the  or  button to choose from the Off, Low, Medium or Strong setting.




4.3.2 Black Level Extender

Press the  button to highlight Black Level Extender. Use this feature to increase the picture reproduction performance in the dark areas of the picture. Press the  or  button to turn this feature On or Off.




4.3.3 White Peak Limiter

Press the  button to highlight White Peak Limiter. Use this feature to limit excessive white in bright areas of the picture, caused by a lower sync level for a channel being received from the antenna or cable. Press the  or  button to turn this feature On or Off.




4.3.4 CTI (Color Transient Intensity)

Press the  button to highlight CTI (Color Transient Intensity). This feature can be used to reduce the time taken to transition from one color to another. The effect will be seen as sharpening the border between colors. Press the  or  button to choose from the Off, Low, Medium or Strong setting.

4.3.5 Flesh Tone

Press the  button to highlight Flesh Tone. In some cases, activation of this feature can result in a more pleasing production of sky and flesh color. Press the  or  button to turn this feature On or Off.


4.3.6 Adaptive Luma

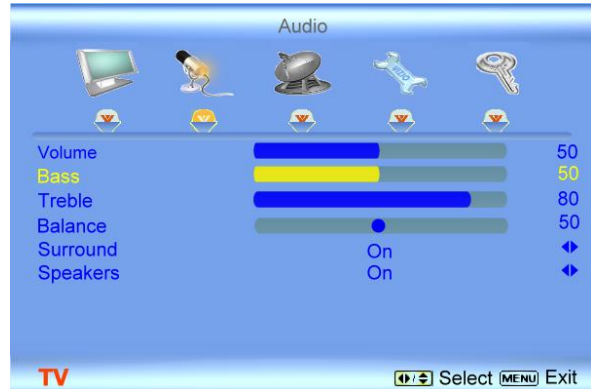
Press the  button to highlight Adaptive Luma. Large areas of darkness in a picture will result in a lower Average Picture Level (APL) and the overall picture will look too dark; activation of this feature will raise the APL to counteract this effect. Press the  or  button to turn this feature On or Off.






4.4 DTV / TV Input Audio Adjustment

4.4.1 Volume

When the MENU button is pressed, the On Screen Display (OSD) shows the PICTURE menu page. Press the  button to display the AUDIO Menu page.



Press the  button to highlight the Volume selection.




Press the  button to start adjusting the volume and the menu page will disappear and be replaced by a small Volume Indicator Bar so you can see the volume level between the zero and maximum available levels. Use the  or  button to adjust the level.



The Volume Indicator Bar will also appear when watching a program on your TV is the Volume button on the remote or the side of the TV is pressed.




4.4.2 Bass

Press the  button to highlight the Bass selection.


Press the  button to start adjusting the bass and the menu page will disappear and be replaced by a small Bass Indicator Bar, as before, so you can see the bass level between the zero and maximum available levels. Use the  or  button to adjust for bass boost or attenuation.




4.4.3 Treble

Press the  button to highlight the Treble selection.

Press the  button to start adjusting the treble and the menu page will disappear and be replaced by a small Treble Indicator Bar, as before, so you can see the treble level between the zero and maximum available levels. Use the  or  button to adjust for treble boost or attenuation.

4.4.4 Balance

Press the  button to highlight the Balance selection.

Press the  button to start adjusting the balance and the menu page will disappear and be replaced by a small Balance Indicator Bar, as before, so you can see the balance adjustment to the left or right of the nominal position. Use the  or  button to adjust the left/right balance.



4.4.5 Surround

Press the  button to highlight the Surround selection.

Press the  button to select for the simulated surround sound feature to be On or Off.

4.4.6 Speakers


Press the  button to highlight the Speakers selection.


Press the  button to turn the internal speakers On or Off. You may want to turn-off the internal speakers when listening to the audio through your Home Theatre System.


4.5 DTV / TV Tuner Setup

When you first used your GV52L FHDTV10A you will have setup your TV for DTV / TV channels using the Initial Setup screens. If you did not do this or if your setup has changed, you can do this from the TV TUNER SETUP menu.

4.5.1 Tuner Mode


When the MENU button is pressed, the On Screen Display (OSD) appears on the PICTURE menu page. Press the  button to display the TV page.


Press the  button to highlight the Tuner Mode selection.

Press the  button to choose Cable or Antenna depending upon which equipment you have attached to the DTV / TV Input.






4.5.2 Auto Search

Press the  button to highlight the Auto Search selection.

Press the  button to Auto Search for TV channels available. The TV will automatically search for analog and digital channels.






4.5.3 Skip Channel

After the TV has stored all of the available DTV channels in memory you will find that some channels will be too weak to watch comfortably or they may be channels you do not want to see. Select the channel you wish to remove, press the MENU and  buttons to open the TV TUNER SETUP menu and then press the  button to highlight SKIP CHANNEL. Press the  button to select this channel to be skipped when using the CH+ or CH- button. You will still be able to select this channel using the number buttons on the remote control.





4.5.4 Digital Audio Out

Press the  button to select this feature. The options are Off, Dolby Digital and PCM. Press the  or  button to select the desired output when an external sound system is used.






4.5.5 Time Zone

Setting the correct Time Zone for your area will ensure that the correct program times are shown after pressing the GUIDE button on the remote control.

Press the  button to highlight the Time Zone selection. Press the  button to select your area.




4.5.6 Daylight Saving


As for Time Zone, setting the daylight saving time for your area will ensure that the correct program times are shown after pressing the GUIDE button on the remote control. Press the  button to highlight the Daylight Saving selection. Press the  or  button to select On or Off.



4.6 DTV / TV Input Setup

4.6.1 Language



When the MENU button is pressed, the On Screen Display (OSD) shows the PICTURE menu page. Press the  button until the SETUP page is displayed.

Press the  button to highlight the Language selection. The default is English.

Press the  button to select Français or Español.



4.6.2 Sleep Timer

Press the  button to highlight the Sleep Timer selection. Press the  button to select the timer to turn-off the TV in 30, 60, 90 or 120 minutes.

4.6.3 Analog Closed Caption

When watching regular analog (NTSC) TV, the Analog CC feature is available in the Setup menu.

Press the  button to highlight the Analog CC selection.

Press the  button to select Off, CC1, CC2, CC3 or CC4.

Note: Closed Caption for regular TV is usually CC1 or CC2.

4.6.4 Digital Closed Caption

When watching DTV, the Digital CC feature is available in the Setup menu.


Press the  button to highlight the Digital CC selection.

Press the  button to select Off or Service 1 thru Service 6.



4.6.5 Digital Closed Caption Style

When selecting Digital Closed Caption you are also able to customize the look of the Closed Caption.





Press the  button to highlight the Digital CC Style selection. The default is Broadcast which means the style is the same as the broadcast channel has chosen for transmission.

Press the  button to select Custom.

The Custom menu allows you to change the seven different parameters shown on the screen; Font Size, Font Color, Font Opacity, Background Color, Background Opacity, Window Color and Window Opacity; to the quality of display of the Closed Caption you desire. The combinations are multiple; that is the reason to have Broadcast selected as default.



4.6.6 PIP (Picture-in-Picture)




Picture-in-Picture is a feature which allows you to watch two different signal inputs simultaneously. Press the  button and highlight the option. Press the  button to activate the PIP feature, which will bring up a display showing Style. Press the  or  button to select PIP, POP or OFF.

If PIP is selected, then you will have the option of selecting the Input (Refer to PIP mode on page 57 of this manual for different combinations), Size (The size of the little box to watch the second signal) and Position (Where you want to place the little box with the second signal).


If POP (Regularly called Picture-by-Picture) is selected, you will only have the option to select the Input as the screen will display the two different signals side by side, each one occupying half of the screen.




4.6.7 H/V Position

Press the  button to select this feature. Press to select the  or  button to make the desired adjustment on your display.

4.6.8 Reset All Settings

Press the  button to highlight the Reset All Settings selection.

Press the  button to reset the TV to the default factory settings.


Note: This does NOT reset the Parental Control Password.

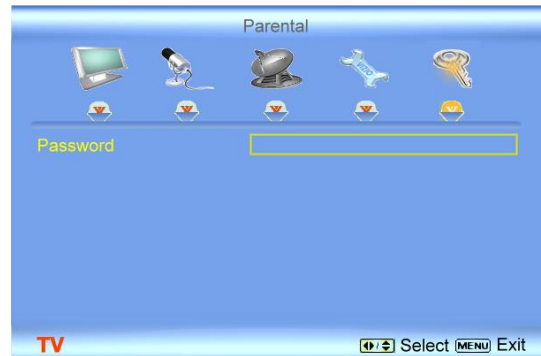


4.7 DTV / TV Input Parental Control

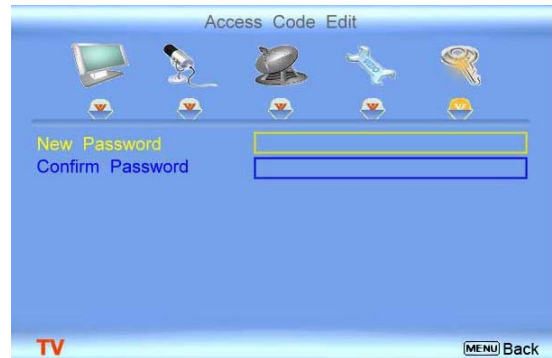
4.7.1 Channel Block

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.


When the MENU button is pressed, the On Screen Display (OSD) shows the PICTURE menu page. Press the  button to display the PARENTAL menu page.





The Password must be entered before the TV will continue with Parental settings. The default password set in the factory is 0 0 0 0. If you are going to use the Parental Control feature you should change the password.




Note: Make sure you write down and store the new password in a secure place. The Reset All Settings feature (see page 37) does NOT reset the password.


Press the  button to highlight the Channel Block selection.

Press the  button and a table shows up displaying scanned channels numbers in sequence with a figure of a padlock to the right hand side. Press the  button to select the channel to be locked or unlocked and then press the OK key to execute your choice.



4.7.2 TV Rating

Follow the procedure in the previous section 4.7.1 to display the Parental Control menu and then press the  button to highlight the TV Rating selection.

Press the  button and the Block TV Rating panel will be displayed.




In the Block TV Rating panel you can customize the program blocking of the following TV ratings:

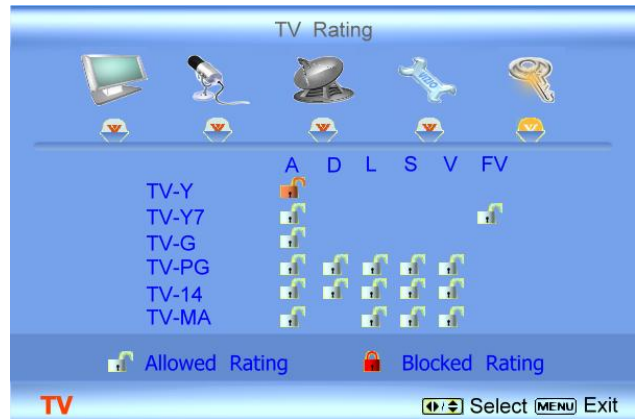
- Y – All children
- Y7 – Older children
- G – General audience
- PG – Guidance suggested
- 14 – Strongly cautioned
- MA – Mature audience





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

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

Press the  or  button to navigate through the TV rating options. Press the  button to block (locked) or allow (unlocked).






4.7.3 Movie Rating

Press the  button to highlight the Movie Rating selection. Press the  button and the Block Movie Rating panel will be displayed.


In the Block Movie Rating panel you can customize the program blocking of the following Movie ratings:


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

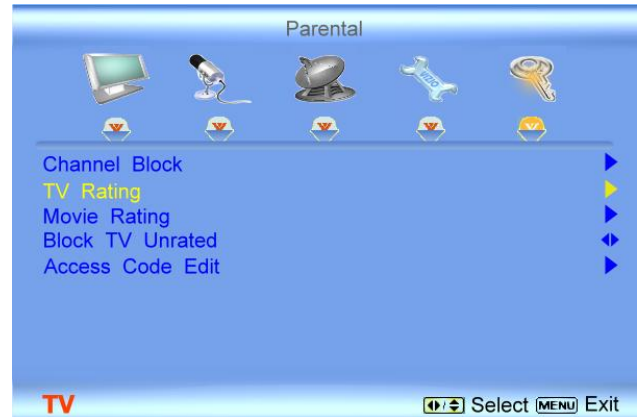


Press the  or  button to navigate through the Movie rating options. Press the  button to block (locked) or allow (unlocked).


Blocked Unrated Programming


Follow the procedure in the previous section 4.7.1 to display the Parental Control menu and then press the  button to highlight the Block Unrated TV selection.

Press the  button to turn-on or turn-off the blocking of programming that does not have a rating.



4.7.4 Change the Password

Press the  button to highlight the Access Code Edit selection.

Press the  button and the new Password panel will be displayed.

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

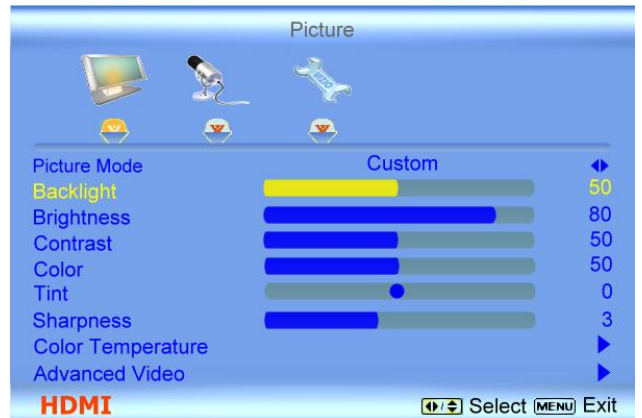


Note: Make sure you write down and store the new password in a secure place. The Reset All Settings feature (see page 37) does NOT reset the password.



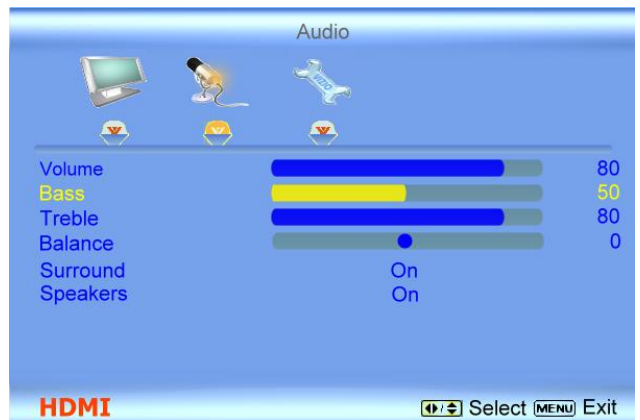
4.8 HDMI Input Picture Adjustment

The Picture Adjust menu operates in the same way for the HDMI Input as for the DTV / TV input in section 4.2. The menu difference is that there is no icon along the top for DTV / TV or Parental Control adjustments.



4.9 HDMI Input Audio Adjustment

The Audio Adjust menu operates in the same way for the HDMI Input as for the DTV / TV input in section 4.4. The menu difference is that there is no icon along the top for DTV / TV or Parental Control adjustments.



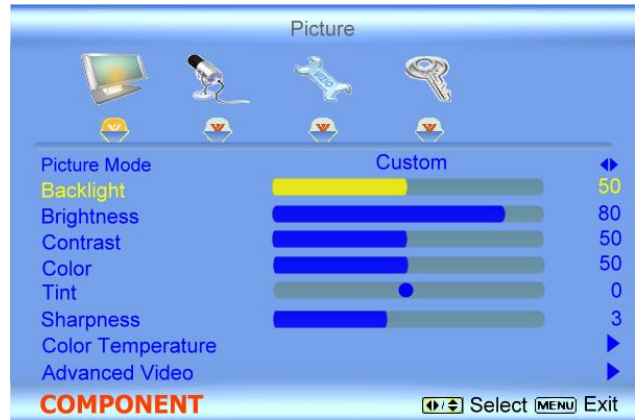
4.10 HDMI Input Setup

The Setup menu operates in the same way for the HDMI Input as for the TV input in section 4.2. The menu difference is that there is no icon along the top for DTV / TV or Parental Control adjustments.



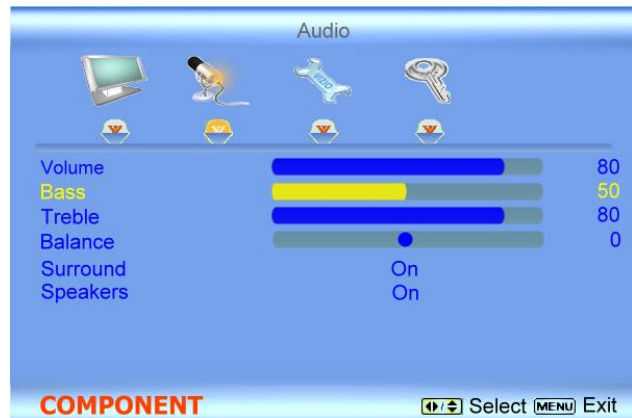
4.11 Video Input Picture Adjustment

The Picture Adjust menu operates in the same way for Video Inputs (Component and AV) as for the DTV / TV input in section 4.2. The menu difference is that there is no icon along the top for DTV / TV adjustments.



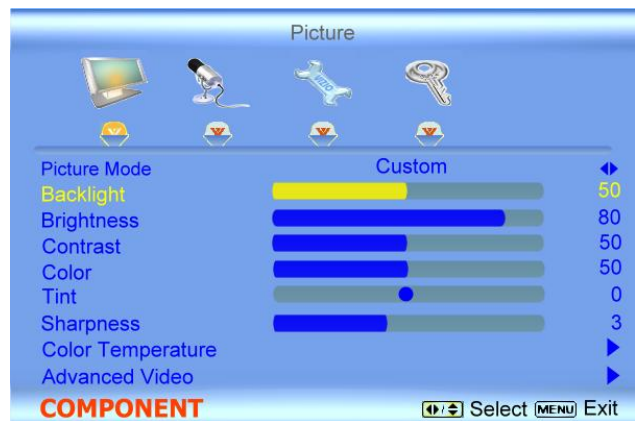
4.12 Video Input Audio Adjustment

The Audio Adjust menu operates in the same way for Video Inputs (Component and AV) as for the DTV / TV input in section 4.4. The menu difference is that there is no icon along the top for DTV / TV adjustments.



4.13 Video Input Setup

The Setup menu operates in the same way for Video Inputs (Component and AV) as for the TV input in section 4.2. The menu difference is that there is no icon along the top for TV adjustments.



4.14 Video Input Parental Control

The Parental Control menu operates in the same way for Video Inputs (Component and AV) as for the DTV / TV input in section 4.7. The menu difference is that there is no icon along the top for DTV / TV adjustments.



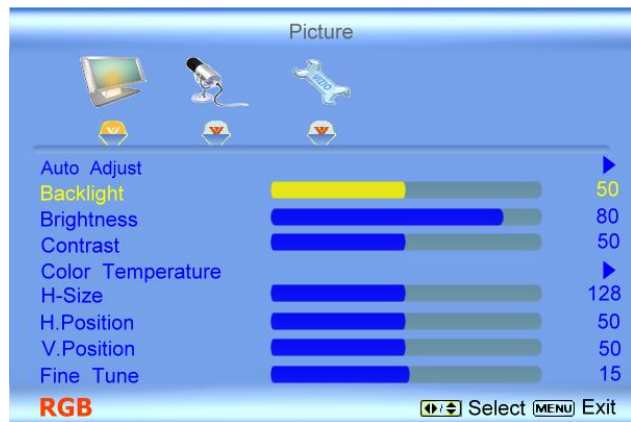
4.15 PC Input Picture Adjustment

The Picture Adjust menu operates in the same way for the PC Input as for the DTV / TV input in section 4.2 for Backlight, Contrast, Brightness and Color Temperature.

4.15.1 Auto Adjust

When the MENU button is pressed, the On Screen Display (OSD) appears on the PICTURE adjustment page. Press the button to highlight the Auto Adjust selection.

Press the button for the LCD HDTV to adjust to the PC signal timing automatically.



4.15.2 Backlight

Press the button to highlight the Backlight selection.

Press the button to start adjusting the brightness of the Backlight and the menu page will disappear and be replaced by a small Backlight Indicator Bar so you can see the light level between the minimum and maximum available levels. Use the or button to adjust the level.






The Backlight level does not affect the Brightness (black level) or Contrast (white level) of the picture, it adjusts the lamp current and this affects the overall brilliance of the picture.



4.15.3 Brightness

Press the  button to highlight the Brightness selection.




Press the  button to start adjusting the brightness and the menu page will disappear and be replaced by a small Brightness Indicator Bar so you can see the brightness level between the minimum and maximum available levels. Use the  or  button to adjust the level.



The Brightness adjusts the 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.

4.15.4 Contrast

Press the  button to highlight the Contrast selection.


Press the  button to start adjusting the contrast and the menu page will disappear and be replaced by a small Contrast Indicator Bar so you can see the contrast level between the minimum and maximum available levels. Use the  or  button to adjust the level.





The Contrast adjusts 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.

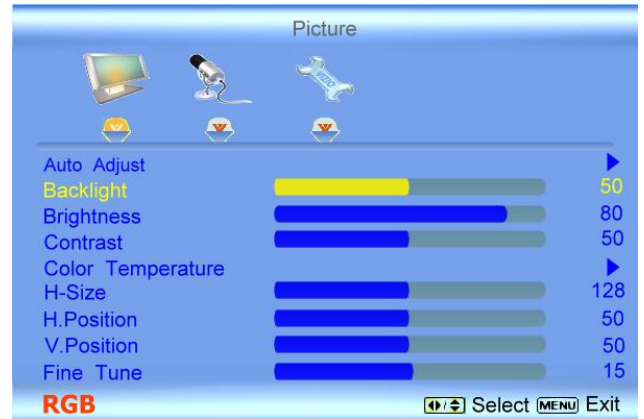



4.15.5 Color Temperature




Press the  button to highlight the option for Color Temperature selection.

The default is COOL; this is the 9300K setting.

Press the  or  button if you want to choose the Normal or Custom option.



If you choose the Custom option, then a new menu will be displayed showing the primary color items, Red, Green and Blue. Press the  button to highlight the color you wish to adjust.




Press the  button to start adjusting the color and the menu page will disappear and be replaced by a small Color (Red, Green or Blue) Indicator Bar as before. Use the  or  button to adjust the color.

Press the OK button when finished. Repeat the procedure to adjust the other colors if desired.






4.15.6 H-SIZE

Press the  button to highlight the H-Size selection.

Press the  button to start adjusting the horizontal size of the picture. Use the  or  button to adjust the horizontal size.




4.15.7 H. Position

Press the  button to highlight the Horizontal Shift selection.

Press the  button to start adjusting the horizontal position of the picture. Use the  or  button to adjust the horizontal position.

4.15.8 V. Position

Press the  button to highlight the Vertical Shift selection.

Press the  button to start adjusting the vertical position of the picture. Use the  or  button to adjust the vertical position.

4.15.9 Fine Tune

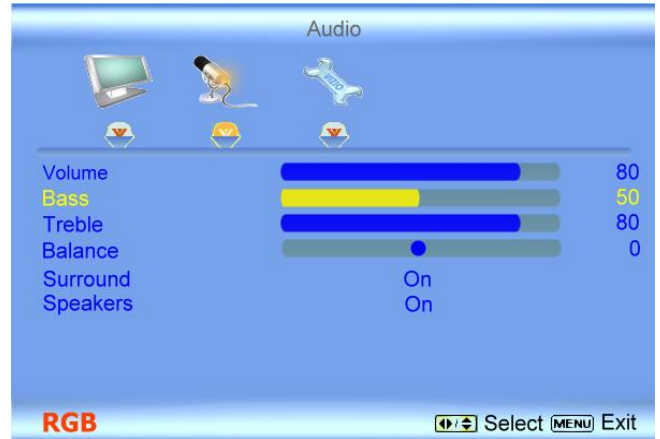
Press the  button to highlight the Fine Tune selection.

Press the  button to start tuning the to the PC signal. Use the  or  button to adjust the tuning.



4.16 PC Input Audio Adjustment

The Audio Adjust menu operates in the same way for the PC Input as for the DTV / TV input in section 4.4. The menu difference is that there are no icons along the top for DTV / TV and Parental Control adjustments.



4.17 PC Input Setup

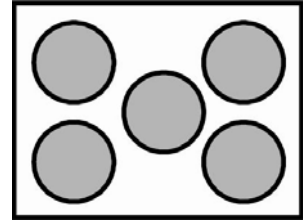
The Setup menu operates in the same way for the PC Input as for the DTV / TV input in section 4.2. The menu difference is that there is no icon along the top for TV adjustments and no Closed Caption.



4.18 Understanding Viewing Modes

Normal Mode

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).

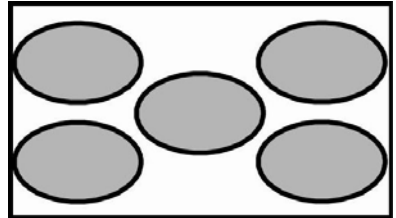
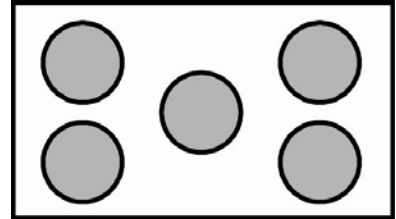


Wide Mode

When watching a standard broadcast or full-frame movie in this mode, the display image is stretched proportionately to fill the TV screen.

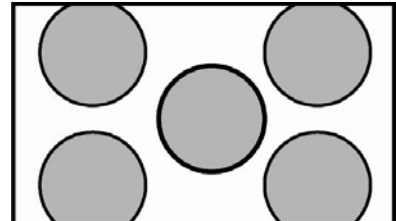
When watching a widescreen (1.78:1 source) program or movie, the display image fills the TV screen. If you are watching a widescreen (1.85:1 or 2.35:1 source) program or movie, there will still be black bars at the top and bottom.

When watching a standard definition 4:3 aspect ratio (1.33:1 source) the picture will fill the screen but will be stretched horizontally; people will look fatter than they are.



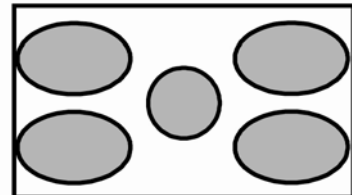
Zoom Mode

When watching a widescreen (1.78:1, 1.85:1, or 2.35:1 source) program or movie, the display image is zoomed proportionally to fill the width of the screen. The top and bottom are cut off to remove most of the source material's black bars. This mode is good for programs or movies with sub-titles.



Panoramic Mode

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.



Note: Viewing modes are saved based on input. For example, you last watched a DVD in widescreen mode and then watched TV in standard mode. When you switch back to DVD input, the viewing mode will return to widescreen.



4.18.1 Picture-In-Picture (PIP) Mode

Your TV features PIP mode so you can watch two pictures at the same time. When PIP is turned on, you can display two pictures at one time. One picture is displayed as the full screen (main screen) and the other picture is displayed in a small window (sub screen). The sub-screen can be set to three different sizes.

Press the button to highlight the PIP selection and press the button. A new menu will be displayed which allows you to configure the PIP function.

Style

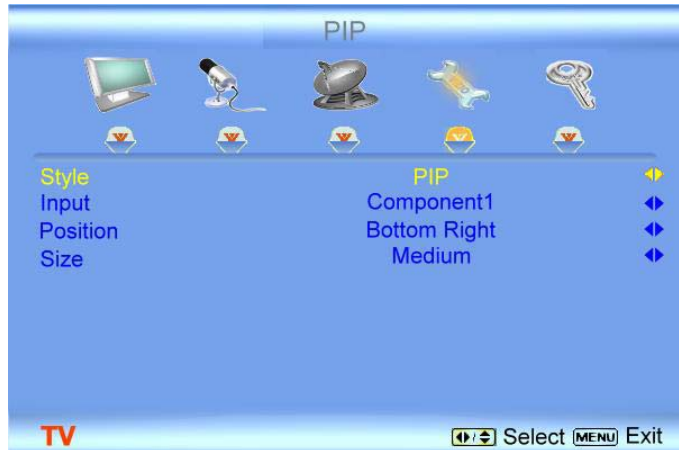
Press the or button to choose from the Off, PIP, POP. In the Off mode the HDTV will display the main screen. In the PIP mode a smaller sub screen will be displayed on top of the main screen.

For the POP mode the main screen and sub screen will of equal size and be positioned side by side.

Input

Press the button to highlight Input and then press the or button to choose the input source for the sub screen. The input sources available will vary according to which input is used for the main screen; see the table below to find which inputs can PIP/POP with each other.

See below for detailed information regarding the PIP sources.



MAIN \ SUB	SUB										
	DTV	TV	AV1	AV2	Component 1	Component 2	HDMI1	HDMI2	HDMI3	HDMI4	RGB
DTV					✓	✓	✓	✓	✓	✓	✓
TV					✓	✓	✓	✓	✓	✓	✓
AV1					✓	✓	✓	✓	✓	✓	✓
AV2					✓	✓	✓	✓	✓	✓	✓
Component 1	✓	✓	✓	✓			✓	✓	✓	✓	
Component 2	✓	✓	✓	✓			✓	✓	✓	✓	
HDMI 1	✓	✓	✓	✓	✓	✓					✓
HDMI 2	✓	✓	✓	✓	✓	✓					✓
HDMI 3	✓	✓	✓	✓	✓	✓					✓
HDMI 4	✓	✓	✓	✓	✓	✓					✓
RGB	✓	✓	✓	✓			✓	✓	✓	✓	

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

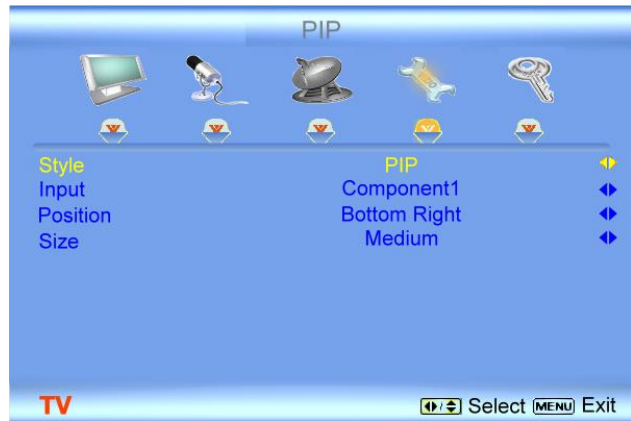


Position

Press the button to highlight Position and press the or button to choose where on the picture you want the PIP screen positioned over the main screen.

Size

Press the button to highlight Size function and press the or button to choose Small, Medium or Large.



See section 1.5, page 16 for the button AUDIO which you can use to switch the audio source from the main screen (default) to the sub screen, and the button SWAP which you use to switch the main screen input source to the sub-screen and vice-versa.

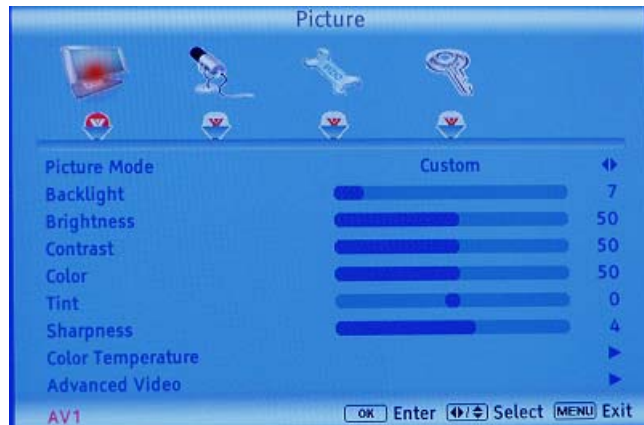
4.18.2 Using PIP/POP Feature

When using PIP/POP mode, the following screens will appear depending on the type of signal input being used:

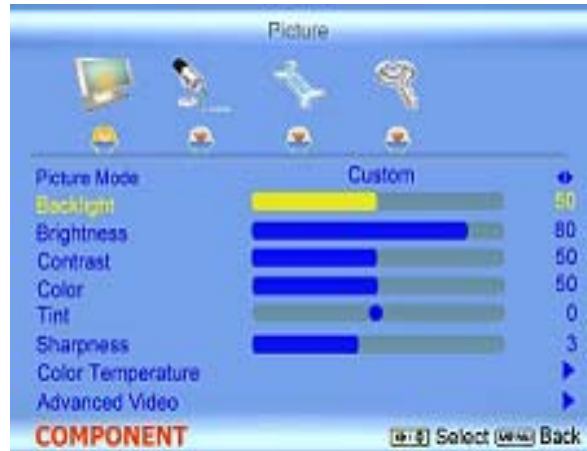


TV refers to the input commonly called RF (coaxial) connector. It carries audio and video through a single cable and connector.

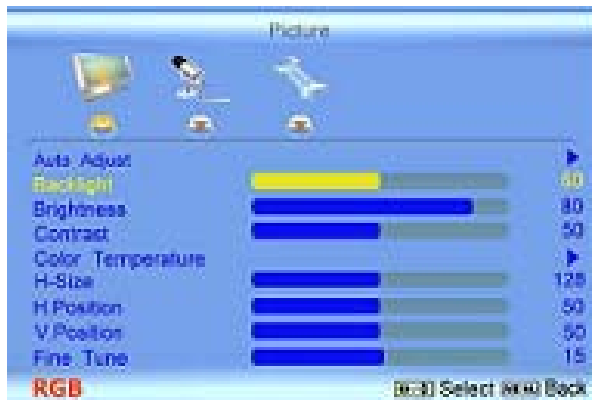
AV refers to the inputs commonly called RCA (composite cables) connectors, on this TV set there are two inputs, **AV1** and **AV2**; one (**AV1**) of which has what is called S-Video connector besides the RCA connector. The image signal put through S-Video cable will take priority when connected to this input. Make sure to leave the audio (red and white) cables in place since only the video or image is carried through this cable.



Component refers to the inputs commonly labeled and known as Y (Green color coded connector) Pb/Cb (Blue color coded connector) Pr/Cr (Red color coded connector). Even though, these cables have what is commonly called RCA connectors at the ends; they will be easily identified since they are color coded Red, Green and Blue. There are two sets of component inputs in your TV set; labeled Component1 and Component2. Be aware that these cables inputs will require an extra set of audio (red and white) cables to complement the video or image signal carried through these three (red, green and blue) cables. Often these inputs are mistakenly referred to by their colors (red, green and blue) which technically do not have any correlation to the functionality of these inputs.



HDMI (High-Definition Multimedia Interface) refers to the inputs (HDMI1, HDMI2, HDMI3 and HDMI4) through which a high definition (audio and video combined) signal is transmitted using a single cable. Your TV comes equipped with four HDMI inputs, one of which will allow the user to input a signal out of a DVI (Digital Video Interface) source into the TV set. Since DVI is a video only type of signal, a set of audio (red and white) cables is needed to complement the picture.









RGB most commonly known as VGA (due to the type of connector and adopted from the beginning of the personal computer industry jargon) connection; VGA (Video Graphics Adapter) is mainly designed to have a computer signal fed into the TV set through this input (the name of the connector itself, is DB15; and it has been standardized by computer manufacturers). As you can deduce, this signal will require a separate audio, and your TV set comes with a 1/8" stereo jack to connect the audio signal out of the computer to the TV set.

The above five pictures correspond to the five different types of inputs which come built into this TV set. The brief descriptions of these pictures would allow you to have an idea of what kind of audio/video equipment or signal sources could be fed into your TV set and the chart on page 58 gives you the different combinations to use this feature. Enjoy it !!!






4.18.3 How to select PIP/POP











The following steps could be used as a guideline to use the features either PIP or POP which come built in to your TV set. Please look into the previous chart where the combinations that apply to your setup or inputs are shown. These steps are a general way of using these features.

1. Press Menu key and depending on what input you are using, one these five pictures will appear on the screen.
2. Press the  or  button to scroll sideways to the Set up option, always represented by the wrench icon. A red color will show that you are at this option.
3. Press the  button to scroll down to the PIP option. PIP will become yellow.
4. Press the  button to make the selection.
5. Screen will show the word Style.
6. Press the  or  button to make the desired selection; either PIP or POP will appear.

If on Step 6 POP is selected then:

7. Press the  button and scroll down to the Input option
8. Press the  or  button to select the desired input. Go through the options by pressing either button as many times as it takes for the options to start repeating.
9. Press the SWAP button to exchange sides for the two inputs.
10. Press the AUDIO button to select which signal or program you want to listen.
11. If TV is selected as one of the signal inputs, the Channel key will allow you to change channels as long as neither a cable box or satellite receiver is being used to control or change channels.

If on Step 6 PIP is selected then:

12. Press the  button on PIP menu screen to the desired option; INPUT, SIZE or POSITION
13. It is recommended to select the size of the screen first; the options being Small, Medium and Large.
14. Press the  button to scroll down to size (it will change to yellow color)
15. Press the  or  button to make your selection; it will take at least three times of pressing the same button to go through the choices.
16. Now that the size has been chosen you would like to select the location (position).
17. Press the  button and scroll down to Position, a yellow color implies that you are at the right option.
18. Press the  or  button to go through the different places where the small screen can be placed. There are eight locations; three on the right hand side, three on the left hand side, one on top center and one on bottom center of the screen (display). Please make sure to select your choice.
19. Now that you have already selected Size and Position, press the  button to select the Input option; again the choice will be yellow to show that it has been selected.
20. Press the  or  button as many times as it take you to get to the right choice or option. Only the signal inputs allow on the previous chart will show up when you are going through the choices.

Note: If you are a constant user of this feature, please allow yourself enough time to get familiar with these steps.



4.19 Programming the VIZIO Universal Remote Control

You can program the remote control to work with up to four different pieces of equipment including your VIZIO GV52L FHDTV10A. Listed below are the steps for programming your VCR, Cable Box and DVD Player.

4.19.1 Programming for VCR

1. Manually turn on the VCR.
2. Press the VCR button on the remote control.
3. Press and hold the SET button until the LED LIGHT flashes twice.
4. Find the programming code for your VCR in the code list in the back of this book 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 for the component and manufacturer.
5. Point the remote control at the VCR and press the POWER button. The VCR will turn off.

Note:

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

4.19.2 Programming for Cable Set-Top Box

1. Manually turn on the Cable Box.
2. Press the CBL button on the remote control.
3. Press and hold the SET button until the LED LIGHT flashes twice.
4. Find the programming code for your Cable Box in the code list in the back of this book 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 for the component and manufacturer.
5. Point the remote control at the Cable Box and press the POWER button. The Cable Box will turn off.
If the LED does not flash twice, repeat Steps 2 through 4 with the next code listed for the component and manufacturer.

Note:

- a) If your Cable Set-Top Box does not respond, try all the codes for your brand. If the codes do not work, or your brand is not listed, see "Searching for Component Codes."
- b) Sometimes a code listed will only include limited functions. Try other codes that may include more functionality.



4.19.3 Programming for DVD Player

1. Manually turn on the DVD Player.
2. Press the DVD button on the remote control.
3. Press and hold the SET button until the LED LIGHT flashes twice.
4. Find the programming code for your DVD player in the code list in the back of this book 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 for the component and manufacturer.
5. Point the remote control at the DVD Player and press the POWER button. The DVD Player will turn off.

Note:

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

4.19.4 Searching for Component Codes

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

To search for a component code:

1. Turn on the component.
2. Press the matching component button on the remote control.
3. Press and hold the SET button until the LED flashes twice.
4. Press 9 9 1. The LED flashes twice.
5. Point the remote control at the component and then alternate between pressing the POWER button and the component button on the remote control until the component turns off. If the component still does not respond, clear the component button, then repeat the search procedure.

4.20 Using a Cable or Satellite Remote

Your VIZIO remote uses codes 11758 and 10178 to work your LCD HDTV. To use a cable or satellite remote to work the LCD 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.



Chapter 5 Maintenance and Troubleshooting

5.1 Maintenance

Important

1. Make sure that the power cable is removed from the socket before cleaning the TV.
2. Do not use volatile solvent (such as toluene, rosin and alcohol) to clean the TV. Such chemicals may damage the housing, screen glass and remote control, and cause paint to peel.

Cleaning the Housing and Remote Control

1. Use the VIZIO soft cloth (included) for cleaning.
2. If the housing or remote control is seriously contaminated, use a soft cloth moistened with diluted neutral cleaner to clean the display. Wring water out of the cloth before cleaning to prevent water from penetrating into the housing. Wipe the display with a dry cloth after cleaning.

Cleaning the Screen

1. Use the VIZIO soft cotton cloth (included) to gently clean the screen.
2. The screen glass is very fragile. Do not scrape it with any sharp object. Do not press or tap the screen to avoid cracking. When the screen is seriously contaminated, use a soft cloth moistened with diluted neutral cleaner to clean the display. Wring water out of the cloth before cleaning to prevent water from penetrating into the housing. Wipe the display with a dry cloth after cleaning.

5.2 Troubleshooting Guide

If the TV fails or the performance changes dramatically, check the display in accordance with the following instructions. 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 1-949-428-2525 or e-mail us at techsupport@vizio.com.

Problem	Solution
No power.	Make sure the power button is ON (White VIZIO Logo). Make sure AC power cord is securely connected to the AC socket. Plug another electrical device (like a radio) to the power outlet to verify that the outlet is supplying the proper voltage.
No sound.	Check your audio connection Press MUTE on the remote control again, so that MUTE disappears from the screen Check your audio settings, your TV audio may be set to SAP, min or speakers off. Press the Volume + (Up) key on your remote control Make sure that headphones are not connected
If the screen is black.	Check your input connections.
Power is ON but no screen	Make sure the video cable supplied with the TV is secured to the correct video



Problem	Solution
image.	output port on the back of the VCR and the TV. Make any cable you have attached to the TV is secured to the correct output your Set-Top Box, DVD, etc. Adjust brightness and contrast. Check Source settings.
Wrong or abnormal colors appear.	If any colors (red, green, or blue) are missing, check the video cable to make sure it is securely connected.
Control buttons do not work.	Press only one button at a time.
Remote Control does not work.	Make sure batteries are inserted correctly Batteries could be weak. Make sure you have selected TV on the remote.
There appears to be image quality issues.	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's and so you can see interference and deficiencies you did not know you had.
You cannot see a picture.	Make sure that the power cord is plugged into a grounded electrical outlet. Make sure that the power button is turned on. Make sure that the selected input source is connected to a working input source. If your TV is connected to your computer in RGB or HDMI mode, press any key on your keyboard to "wake" your computer.
You see a distorted picture or hear unusual sound.	You may be getting interference from electrical appliances, cars, motorcycles, or fluorescent lights. If you have not mounted it on the wall, try moving your TV to another location to see if this is the cause of the problem.
The picture has abnormal patterns.	Make sure that the input source cable is attached securely and correctly to the back of your TV. Make sure that the video input source is within the range of your TV. Compare the video input source's specifications with your TV specifications.
The display image does not cover the entire screen.	If you are using RGB mode, 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, use the WIDE button on the remote control to scroll through various screen modes.
You can see a picture but you cannot hear sound.	Make sure that the volume is not turned down. Make sure that the sound is not muted. Make sure that your audio input source cables are connected securely and correctly.
The TV has pixels that are always dark or colored.	Your LCD HDTV is manufactured using an extremely high level of precision technology, however, sometimes some pixels of your LCD HDTV may not display. Pixel defects within industry specifications are inherent to this type of product and do not constitute a defective product.
You see "noise" or "trash" on the screen.	When your LCD 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.
You switch to a different input and the volume changes.	The TV remembers the volume level from the last time you adjusted it. If the sound level is higher or lower from another source, then the loudness will change.
You switch to a different input and the screen size changes.	The TV remembers the viewing mode from the last time you used a particular input (AV1, AV2, Component 1, Component 2, HDMI 1, HDMI 2, HDMI 3, HDMI 4 and TV).



Problem	Solution
Tips for High-Definition Users.	The LCD HDTV is an ideal platform for viewing High Definition Content. Best Image Quality will be achieved by the HDMI Input, then YPbPr, then RGB. However, due to variances in broadcast practices, it is possible some image distortions can occur.
Tips for Letterbox Content Users.	Letterboxed (or "Widescreen") versions of DVD movies are most commonly formatted for standard 4:3 Televisions. The LCD HDTV has the capability of expanding this content so the entire screen is filled at the expense of image accuracy. To use this function, press the "ZOOM" key on the remote control and cycle among the available options.

5.3 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, please 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 e-mail or phone.

E-mail: techsupport@vizio.com

Tel: (949)428-2525

Hours of operations:

6:00am – 6:00pm PST Monday – Friday

10:00am – 2:00pm PST Saturday – Sunday

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

VIZIO

39 Tesla

Irvine CA 92618

Tel: (949) 428-2525 Fax: (949) 585-9563

Web: www.VIZIO.com



5.4 Compliance

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

USA	UL
Canada	CSA
Germany	VDE
UK	BASE/BS
Japan	Electric Appliance Control Act

5.5 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 power cord, if any, must be used in order to comply with the emission limits.
3. The manufacturer is not responsible for any radio or TV interference caused by unauthorized modification to this equipment. It is the responsibilities of the user to correct such interference.



Chapter 6 Miscellaneous Information

6.1 Specifications

Specifications	
Panel	52" Diagonal, 16:9 Aspect Ratio
Resolution	1920 x 1080 pixels
Pixel (Dot) Pitch	0.600mm (H) x 0.600mm (V)
Display/Signal Compatibility	1080P (Full HDTV) , 1080i (HDTV) , 720P (HDTV) , 480P (EDTV) 480i (SDTV)
Colors	16.77 Million
Brightness	500 cd/m ² (typical)
Contrast	1000 :1 (typical)
Viewing Angle	Horizontal and Vertical 178° (typical)
Inputs	1x Coaxial RF (ATSC/QAM/NTSC), 4x HDMI ^{TM**} with HDCP (1 with Stereo Audio RCA), 2x Component YPbPr plus Stereo Audio, 1x RGB PC plus Stereo Audio (1/8" stereo jack), S-Video plus Stereo Audio (shared with Composite Video in AV1), 1x Composite Video plus Stereo Audio (AV2)
Outputs	1x Optical Audio from DTV input only (SPDIF Optical), 1x Stereo Audio (RCA)
Features	FULL HD, PIP, POP, Noise Reduction, CC, V-Chip, 3D Comb Filter, Zoom, Freeze, Motion Adaptive De-Interlace, Picture Enhancement, MPEG-2 Decoding via DTV input, NTSC Video decoding via Video (AV, S-Video or Component), Progressive Scan Video via HDMI ^{TM**} , Component or RGB, HDTV via HDMI ^{TM**} , Component or RGB (Set-Top Box required), Computer 640x480, 800x600, 1024x768, 1280x1024, 1920x1080 via RGB or 1920x1080 via HDMI, Sound Enhancement
Speakers	2 Removable [15W Left + 15W Right + Tweeters + Subwoofer] speaker assemblies
Panel Life	45,000 hours to half the original brightness
Power	
Input	IEC Connector for direct power line connection
Voltage Range	100 ~ 240Vac at 50/60Hz
Power Consumption	420W average
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: 10~90%, Altitude: 0~40,000 ft
Dimensions	50.4" W x 34.7" H x 12.2" D with stand; 50.4" W x 33.4" H x 4.9" D without stand; 50.4"W x 30.19" H x 4.0" D w/o stand and speakers
Net Weight	110 lbs with stand
Gross Weight	129 lbs
Certifications	CSA, CSA-NRTL, FCC class B, Bets-7, ICES-003

*Product specifications may change without notice or obligation.



6.2 Glossary - Standard Definitions

Analog TV: Today's TV system using radio frequency waves to transmit and display pictures and sound.

Aspect Ratio (4x3): Traditional TV "aspect ratio", that is, the screen's width as compared to its height. For example, a "32 inch TV screen" would be 25 inches wide and 19 inches tall.

Aspect Ratio (16x9): "Wide screen TV" aspect ratio which is more like a movie screen than a traditional TV. For example, a "32 inch TV screen" would be 28 inches wide and 16 inches tall.

Digital TV (DTV): Television delivered and displayed using radio frequency waves that contain information that is digitally encoded for improved quality and efficiency.

Enhanced Definition TV (EDTV): A better digital television transmission than SDTV with at least 480P, in a 16x9 or 4x3 display and Dolby digital surround sound. 480P is the quality used by most DVD players. EDTV provides 300-400,000 pixels.

HDTV Monitor (sometimes called HDTV Ready): A set that can display HDTV programming if you have a separate HDTV tuner, HD Cable Set-Top Box or HD Satellite Set-Top-Box Receiver.

HDTV Tuner (also decoder, receiver, set-top box): A device capable of receiving and outputting HDTV signals for display. It may be stand-alone or integrated in the set.

High-Definition Television (HDTV): The best quality picture, wide screen (16x9) display with at least 720 progressively scanned lines (720P) or 1080 interlaced lines (1080i) and Dolby digital surround sound. HDTV provides 900,000-2.1 million pixels.

Integrated HDTV: An HDTV that has the digital tuner built into the set. It does not need a separate set-top box to receive over-the-air DTV signals.

Interlace Scan: A way to scan vertical lines onto a TV picture by scanning all the odd lines first, then filling the in the even lines (this happens instantaneously).

Plug-and-Play or Digital Cable Ready: A DTV or other device for digital cable consumers that plugs directly into the cable jack and does not require a separate set-top box. Plug-and-Play TV owners must obtain a CableCARD from their cable company in order to view scrambled programming services.

Progressive Scan: A way to scan vertical lines onto a TV picture by scanning all the lines consecutively (progressively).

Standard Definition TV (SDTV): Basic digital television transmission that may be displayed with fewer than 480 progressively scanned lines (480P) in 16 x 9 or 4 x 3 format. 480 interlaced (480i) is the quality of today's analog TV system.

Source: Buying a Digital Television, CEA, HDTV Guide, 2005

Note: The Federal Communications Commission (FCC), the Consumer Electronics Association (CEA) and the Consumer Electronics Retailers Coalition (CERC) have made a new tip sheet available for digital television (DTV) retailers to reproduce and distribute to consumers on the sales floor. The file may be downloaded online at www.dtv.gov. While you're there, check out the other useful information in the FCC is making available to consumers interested in learning more about the analog to digital transition.



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ABS	21972
Admiral	20048, 20209
Aiko	20278
Aiwa	20037, 20479
Alienware	21972
America Action	20278
American High	20035
Amoisonic	20479
Anam	20162, 20037, 20240, 20278
Anam National	20162
Asha	20240
Audiovox	20037, 20278
Beaumarck	20240
Bell & Howell	20104
Broksonic	20184, 20121, 20209, 20002, 20479
Calix	20037
Canon	20035
Carver	20081
CCE	20072, 20278
Changhong	20048, 20081
Citizen	20037, 20278
Colt	20072
Craig	20037, 20047, 20240, 20072
Curtis Mathes	20060, 20035, 20162
Cybernex	20240
CyberPower	21972
Daewoo	20045, 20104, 20278
Dell	21972
Denon	20042
DirecTV	20739
Durabrand	20039, 20038
Electrohome	20037
Electroponic	20037
Emerex	20032

Setup Code for VCR's	
Emerson	20035, 20037, 20184, 20240, 20045, 20121, 20043, 20209, 20002, 20278, 20479
Fisher	20047, 20104
Fuji	20035, 20033
Fujitsu	20045
Gateway	21972
GE	20060, 20035, 20240
General	20045
Go Video	20432
GoldStar	20037, 20209, 20038, 20225
Haojie	20240
Harman/Kardon	20081, 20038
Harwood	20072
Hewlett Packard	21972
HI-Q	20047
Hitachi	20037, 20042, 20055
Howard Computers	21972
HP	21972
Hughes Network Systems	20042, 20739
iBUYPOWER	21972
JVC	20045, 20067
KEC	20037, 20278
Kenwood	20067, 20038
KLH	20072
Kodak	20035, 20037
Kolin	20043
LG	20037, 20045, 20042, 20209, 20038
Logik	20072
LXI	20037
Magnavox	20035, 20039, 20081
Magnin	20240

Setup Code for VCR's	
Marantz	20035, 20081
Marta	20037
Matsushita	20035, 20162
Media Center PC	21972
MEI	20035
Memorex	20035, 20162, 20037, 20048, 20039, 20047, 20240, 20104, 20209, 20479
MGA	20240, 20043
MGN Technology	20240
Microsoft	21972
Mind	21972
Minolta	20042
Mitsubishi	20067, 20043
Motorola	20035, 20048
MTC	20240
Multitech	20072
NEC	20035, 20037, 20048, 20104, 20067, 20038
Newave	20037
Nikko	20037
Noblex	20240
Northgate	21972
Olympus	20035
Optimus	21062, 20162, 20037, 20048, 20104, 20432
Orion	20184, 20209, 20002, 20479
Panasonic	21062, 20035, 20162, 20616, 20225
Penney	20035, 20037, 20240, 20042, 20038
Pentax	20042
Philco	20035, 20479
Philips	20035, 20081, 20739, 20618
Pilot	20037



Setup Code for VCR's	
Pioneer	20042, 20067
Polk Audio	20081
Profitronic	20240
Proscan	20060
Protec	20072
Pulsar	20039
Qisheng	20060
Quasar	20035, 20162
Radix	20037
Randex	20037
RCA	20060, 20035, 20240, 20042, 20880
Realistic	20035, 20037, 20048, 20047, 20104
ReplayTV	20616
Runco	20039
Sampo	20037, 20048
Samsung	20240, 20045, 20432
Sanky	20048, 20039
Sansui	20067, 20209, 20479
Sanyo	20047, 20240, 20104
Scott	20184, 20045, 20121, 20043
Sears	20035, 20037, 20047, 20042, 20104
Sharp	20048, 20209
Shintom	20072
Shogun	20240
Singer	20072
Sonic Blue	20616
Sony	20035, 20032, 20033, 20636, 21972
STS	20042
Sylvania	20035, 20081, 20043
Systemax	21972
Tagar Systems	21972
Tashiko	20037

Setup Code for VCR's	
Tatung	20045, 20067
Technics	20035, 20162
Teco	20035, 20037, 20048, 20038
Teknika	20035, 20037
Tivo	20636, 20618, 21503, 20739
TMK	20240
Toshiba	20045, 20042, 20067, 20043, 21503, 21008, 21972
Totevision	20037, 20240
Touch	21972
Unitech	20240
Vector	20045
Vector Research	20038
Victor	20067
Video Concepts	20045
Videomagic	20037
Videosonic	20240
Viewsonic	21972
Wards	20060, 20035, 20048, 20047, 20081, 20240, 20042, 20072
White Westinghouse	20209, 20072
XR-1000	20035, 20072
Yamaha	20038
Zenith	20039, 20033, 20209, 20479
ZT Group	21972

Setup Code for Cable Converters	
ABC	00003, 00008, 00014
Americast	00899
Bell & Howell	00014
Bell South	00899
Clearmaster	00883
ClearMax	00883
Coolmax	00883

Setup Code for Cable Converters	
Daeryung	01877, 00877, 00477, 00008
Digi	00637
Director	00476
Dumont	00637
Gehua	00476
General Instrument	00476, 00810, 00276, 00003, 00014
GoldStar	00144
Hamlin	00009, 00273
Hitachi	00014
Jerrold	00476, 00810, 00276, 00003, 00012, 00014
KNC	00008
LG	00144
Memorex	00000
Motorola	00476, 00810, 00276, 01254, 01376
MultiVision	00012
Pace	01877, 00237
Panasonic	00000, 00008, 00107
Panther	00637
Paragon	00000
Philips	00317, 01305
Pioneer	01877, 00877, 00144, 00533
Pulsar	00000
Quasar	00000
RadioShack	00883
Regal	00279, 00273
Runco	00000
Samsung	00000, 00144
Scientific Atlanta	01877, 00877, 00477, 00008
Sony	01006
Starcom	00003, 00014
Supercable	00276
Supermax	00883
Tocom	00012



Setup Code for Cable Converters	
Torx	00003
Toshiba	00000
Trans PX	00276
Tristar	00883
TS	00003
V2	00883
Viewmaster	00883
Vision	00883
Vortex View	00883
Zenith	00000, 00525, 00899

Setup Code for Satellite Receivers	
AlphaStar	00772
Chaparral	00216
Crossdigital	01109
DirecTV	00392, 00566, 00639, 01142, 00247, 00749, 01749, 00724, 00819, 01856, 01076, 01109, 00099, 01392, 01640, 01442, 01414, 01108
Dish Network System	01005, 00775, 01505
Dishpro	01005, 00775, 01505
Echostar	01005, 00775, 01505
Expressvu	00775
GE	00566
General Instrument	00869
GOI	00775
Goodmans	01246
Hisense	01535
Hitachi	00819, 00222, 01250
HTS	00775
Hughes Network Systems	01142, 00749, 01749, 01442
I-Lo	01535

Setup Code for Satellite Receivers	
JVC	00775
LG	01414, 01226
Magnavox	00724, 00722
Memorex	00724
Mitsubishi	00749
Motorola	00869
NEC	01270
Next Level	00869
Panasonic	00247, 00701
Paysat	00724
Philips	01142, 00749, 01749, 00724, 01076, 00722, 00099, 01442
Proscan	00392, 00566
Proton	01535
RadioShack	00869
RCA	00392, 00566, 00855, 00143, 01392
Samsung	01276, 01109, 01108
Sanyo	01219
SKY	00856
Sony	00639, 01640
Star Choice	00869
Tivo	01142, 01442
Toshiba	00749, 01749, 00790, 01285
UltimateTV	01640, 01392
Uniden	00724, 00722
US Digital	01535
USDTV	01535
Voom	00869
Zenith	00856, 01856

Setup Code for DVD Players	
Aiwa	20641, 21912
Akai	20770
Allegro	20869
Apex Digital	20672, 20717, 20797, 21061,

Setup Code for DVD Players	
	20796, 21056, 21937, 20794, 21020, 21915
Blaupunkt	20717
Blue Parade	20571
Broksonic	20695
Changhong	20627, 21061
CineVision	20869
Coby	21086
Curtis Mathes	21087
CyberHome	21024, 21023, 21129, 20816, 21117
Daewoo	20833, 21172, 20869
Denon	20490
DVD2000	20521
Emerson	20591, 20675
Enterprise	20591
Fisher	21919
Funai	20675
Gateway	21158, 21073
GE	20522, 20717
Go Video	20744, 20833, 21099, 20783, 21075, 20869, 21730
Greenhill	20717
Harman/Kardon	20582, 20702
Hitachi	20573, 20664, 21919
Hiteker	20672
Initial	20717
Integra	20627, 21924
JBL	20702
JVC	20558, 20623, 20867
Kenwood	20490, 20534
KLH	20717, 21020, 21149
Koss	20651, 21980
Lasonic	20798
LG	20591, 20869, 20801
Liquid Video	21980



Setup Code for DVD Players	
Lite-On	21158, 21058
Loewe	20511
Magnavox	20503, 20539, 21976, 21914, 20675
Marantz	20539
Memorex	20695
Microsoft	20522
Mintek	20717
Mitsubishi	21521, 20521
Nesa	20717
Norcent	21003
Onkyo	20503, 20627, 21924, 20792
Oritron	20651, 21980
Panasonic	20490, 21762, 21990
Philips	20503, 20539, 20646, 21914
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Polk Audio	20539
Portland	20770
Proscan	20522
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RCA	20522, 20571, 20717, 20822
Rio	20869
Rotel	20623
Sampo	20752, 20698
Samsung	20490, 20573, 21932, 21075, 20820
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Sanyo	20695
Sharp	20630, 20752
Sharper Image	21117
Sherwood	20770
Shinco	20717
Shinsonic	20533
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Sony	20533, 20864, 21033, 21904, 21903

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SVA	20717
Sylvania	20675
Symphonic	20675
Teac	20717, 21984, 20809
Technics	20490
Theta Digital	20571
Toshiba	20503, 20695
V, Inc.	20123, 20124
Urban Concepts	20503
Xbox	20522
Yamaha	20490, 20539, 20545
Zenith	20503, 20591, 20869

Setup Code for CD Players	
Aiwa	30157
Burmester	30420
California Audio Labs	30029
Carver	30157, 30179
Denon	30873
DKK	30000
DMX Electronics	30157
Dynamic Bass	30179
Fisher	30179
Garrard	30420
Genexxa	30032
Harman/Kardon	30157, 30173
Hitachi	30032
Integra	30101
JVC	30072
Kenwood	30826, 30626, 30028, 30037, 30036, 30190
Krell	30157
Linn	30157
Magnavox	30157
Marantz	30626, 30029, 30157
MCS	30029

Setup Code for CD Players	
Miro	30000
Mission	30157
MTC	30420
NSM	30157
Onkyo	30868, 30101
Optimus	31063, 30000, 30032, 30037, 30420, 30179, 31075, 30145
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Philips	30626, 30157
Pioneer	31063, 31062, 30032
Polk Audio	30157
Proton	30157
QED	30157
Quad	30157
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SAE	30157
Sansui	30157
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TAG McLaren	30157
Tascam	30420
Teac	30420
Technics	30029
Victor	30072
Wards	30157, 30053
Yamaha	30888, 30036



Setup Code for CD Players	
Zonda	30157

Setup Code for Audio Amplifiers	
Bose	30674
GE	30078
JVC	30331
Marantz	30321
Nakamichi	30321
NEC	30264
Optimus	30395
Realistic	30395
Sansui	30321
Shure	30264
Sony	30689
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ADC	30531
Aiwa	31405, 31243, 30121
Anam	31609, 31074
Audiotronic	31189
Bose	31229
Capetronic	30531
Carver	31189
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Inkel	30027
Integra	30135
JBL	30110

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JVC	30074, 31263
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Addison	10092
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Advent	10761, 10842
Aiko	10092
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Akai	10812, 10702, 10030, 10672, 11903
Albatron	10700, 10843
America Action	10180
Anam	10250, 10180, 10700
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BenQ	11032
Bradford	10180
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Chung Hsin	10180, 10053
Cinema	10672



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Citizen	10060, 10030, 11928, 10092
Clarion	10180
Commercial Solutions	11447, 10047
Conrowa	10156, 10145, 11156
Contec	10180
Craig	10180
Crosley	10054
Crown	10180
Curtis Mathes	10047, 10054, 10154, 10451, 10093, 10060, 10702, 10030, 10145, 10166
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Multitech	10180



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Optimus	10154, 10250, 10166, 10650, 11927, 11924, 11913
Optonica	10093
Orion	10236, 10463, 11929, 11911, 11905
Panasonic	10054, 10250, 10051, 10650, 11941, 11927, 11924
Panda	10051, 10706
Penney	10047, 10156, 10051, 10060, 10030, 10178, 11926, 11907
Philco	10054, 10180, 10030, 10178
Philips	11454, 10054, 10000, 10051, 10030, 10178, 10092, 10690
Pilot	10030
Pioneer	10166, 10866, 10679
Portland	10092
Prima	10761
Princeton	10700
Prism	10051
Proscan	11447, 10047, 11922
Proton	10030, 10178
Pulsar	10017
Qingdao	

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Quasar	10250, 10051, 11924, 10650
RadioShack	10047, 10154, 10180, 10030, 10178, 11920, 11904
RCA	11447, 10047, 11454, 10000, 10030, 10178, 11547, 11922, 11917, 10092, 11907, 11948, 10090, 10679
Realistic	10154, 10180, 10030, 10178
Rowa	10748
Runco	10017, 10030
Sampo	10154, 10093, 10030, 10178, 10171, 10700, 10650, 11755, 10092
Samsung	10154, 10156, 10060, 10812, 10702, 10030, 10178, 11060, 10814, 10092, 11903, 10090, 10766
Sansui	10463, 11904, 11935, 11929, 11911
Sanyo	10154, 10156, 10180, 10145, 11907
Sanyuan	10093
Scotch	10178
Scott	10236, 10180, 10178
Sears	10047, 10054, 10154, 10156, 10178, 10171, 11926, 11904
Shaofeng	10145
Sharp	10093, 10030, 10650, 11917
Shen Ying	10092
Shencai	10145
Sheng Chia	10093, 10236
Skygiant	10180
Skyworth	10748
Sony	11100, 10000, 10650, 11925,

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	11904
Soundesign	10180, 10178
Sowa	10156, 10051, 10060, 10178, 10092
Squareview	10171
SSS	10180
Starlite	10180
Studio Experience	10843
Supreme	10000
SVA	10748, 10865
Sylvania	10054, 10030, 10171, 11944, 11931
Symphonic	10180, 10171, 11913, 11904
Synco	10000, 10451, 10093, 10060, 10178, 10092
Tacico	10178, 10092
Tandy	10093
Tashiko	10092, 10650
Tatung	10054, 10154, 10156, 10051, 10060, 11156, 11756, 11254
Technics	10250, 10051
Techwood	10051
Teco	10051, 10093, 10178, 10092
Teknika	10054, 10180, 10150, 10060, 10092
Telefunken	10702
Tera	10030
Thomas	11904
Tiane	10093
TMK	10178
TNCi	10017
Tobo	10748
Toshiba	10154, 10156, 10060, 10145, 11945, 11704, 11936, 11156, 11935, 10650, 11918
Tuntex	10030, 10092



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TVS	10463
VIZIO	11758, 11756, 10885, 10864
Vector Research	10030
Victor	10250, 10053, 10650
Vidikron	10054
Vidtech	10178

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Viewsonic	11755, 10885, 10864
Wards	10054, 10030, 10178, 10866, 11156
Warumaia	10661
Waycon	10156
White	10463, 11909,

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Westinghouse	10623
Yamaha	10030
Yapshe	10250
Zenith	10017, 10463, 10178, 11904, 11929, 11911, 11909, 100920

