



**Dear VIZIO Customer,**

Congratulations on your new VIZIO VW22L High Definition 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 VW22L High Definition Television.

**For assistance**, please call (877) 698-4946 or e-mail us at [techsupport@vizio.com](mailto: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](http://www.VIZIO.com) or call toll free at **888-VIZIOCE (888-849-4623)**.

We recommend you register your VIZIO VW22L HDTV10T either at our website [www.VIZIO.com](http://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 VW22L.

-----

Purchase Date \_\_\_\_\_

*VIZIO is a registered trademark of VIZIO, Inc., dba V, Inc.*

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

*Manufactured under license from Dolby Laboratories.*

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



## 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 VW22L LCD HDTV.
- Unplug the power cord before cleaning the VW22L LCD HDTV. A damp cloth is sufficient for cleaning the VW22L LCD HDTV. 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 VW22L LCD HDTV from an area of low temperature to an area of high temperature, condensation may form on the housing. Do not turn on the VW22L LCD HDTV immediately after this to avoid causing fire, electric shock or component damage.
- Do not place the VW22L LCD HDTV on an unstable cart, stand, or table. If the VW22L LCD HDTV 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 VW22L LCD HDTV.
- A distance of at least 3 feet should be maintained between the VW22L LCD HDTV 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 VW22L LCD HDTV and to protect it from overheating, be sure these openings are not blocked or covered. Do not place the VW22L LCD HDTV in a bookcase or cabinet unless proper ventilation is provided.
- Never push any object into the slot on the VW22L LCD HDTV 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 VW22L LCD HDTV.
- The VW22L LCD HDTV should be operated only from the type of power source indicated on the label. If you are not sure of the type of power supplied to your home, consult your dealer or local power company.
- The power cable must be replaced when using different voltage from that specified in the User Manual. For more information, contact your dealer.
- The VW22L LCD HDTV is equipped with a **three-pronged grounded plug, a plug with a third (grounding) pin**. This plug will fit only into a grounded power outlet 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 VW22L LCD HDTV 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 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 VW22L LCD HDTV.
  - 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.

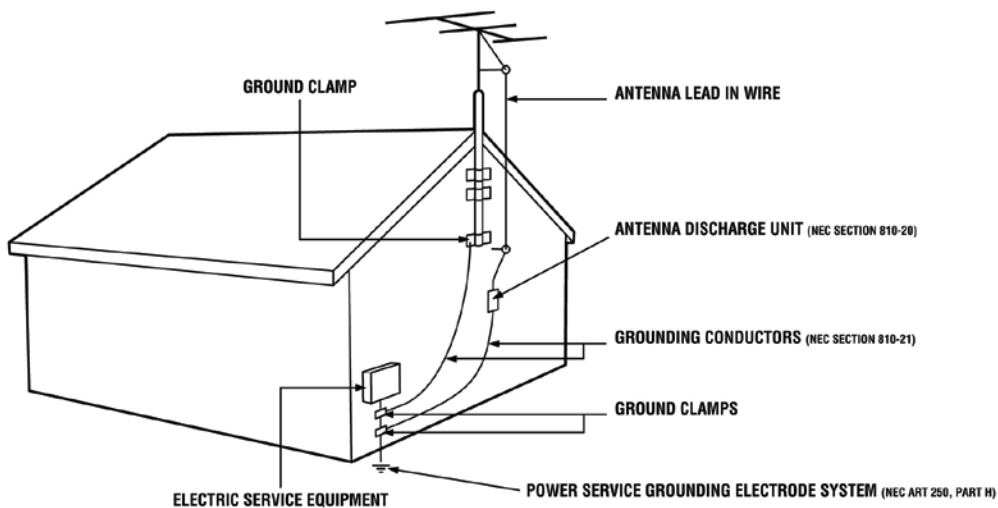


## Television Antenna Connection Protection

### 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 VW22L HDTV10T 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 VW22L HDTV10T is in good condition and that all of the accessories are included.

The screen 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 VW22L HDTV10T  
VIZIO Remote Control VR1  
Two (Double A) Batteries for the Remote Control  
Base  
One M4 16mm screw (to attach the Base to the stand)  
Power Cord  
This User Manual  
Quick Setup Guide  
Registration Card  
VIZIO Warranty and Repair Information



**IMPORTANT:** Do not apply pressure to the screen display area which may compromise the integrity of the display. The manufacturer's warranty does not cover user abuse or improper installations.

## Additional Certified Accessories for the VIZIO VW22L HDTV10T are sold separately

Wall Mounts  
High Definition Cables  
Extra or replacement Remote

VIZIO also offers Installation Services and Extended Warranty Services for your VIZIO VW22L HDTV10T

To purchase or inquire about additional accessories and services for your VIZIO product, visit our web site at [www.VIZIO.com](http://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 approximately 60W, please use the power cord designated for the 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. Avoid installing the TV in places with high humidity, dust or smoke so as not to shorten the service life of the electronic components.

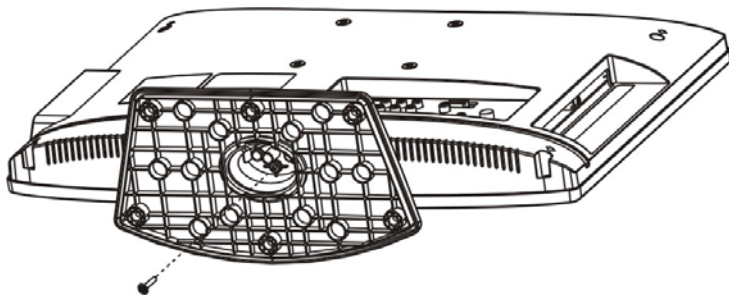
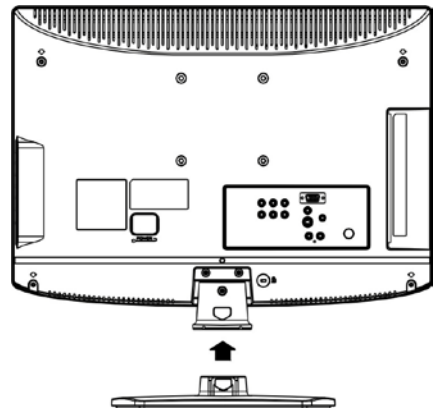
Install the TV in landscape orientation; any 90° clockwise or counter-clockwise installation may induce poor ventilation and excessive component damage.

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

## Attaching the Base

**IMPORTANT:** The Base of the HDTV must be assembled prior to usage.

1. Place the VW22L face down on a soft and flat surface (blanket, foam, cloth, etc.) to prevent any damage to the HDTV.
2. Carefully align and insert the Base to the stand (*please refer to the illustration to the right*).
3. Gently push the Base towards the HDTV until the locking mechanism locks into place.



4. Insert the provided M4-16mm screw to the bottom of the base (*as shown on the illustration to the left*).
5. Use a Phillips screwdriver to tighten the Base to the stand.



## Preparing Your LCD HDTV for Wall Mounting

The VIZIO VW22L HDTV10T can either be kept on the stand base or mounted on the wall for viewing. If you choose to mount the VW22L HDTV10T on the wall, please follow the instructions below for removing the stand base.

### To remove the stand base

1. Unplug all of the cables and cords from your VW22L.
2. Place the VW22L face down on a soft and flat surface (blanket, foam, cloth, etc) to prevent any damage to the TV.
3. Remove the three (3) screws holding the base to the VW22L.
4. Carefully remove the stand base.
5. Now the VW22L can fit securely to a mount (sold separately) by utilizing the mounting holes in the center of the back panel of the TV. Please ensure to follow the instructions of your specific mount to properly hang the VW22L HDTV10T.



The pitch of the mounting holes is 100mm horizontal and 100mm vertical. The screw type required is a metric M4, 1.25 pitch. The length of the screws will depend on the thickness of the plate being attached to the TV set; our brackets come with different length screws.

To find the perfect mount for the VIZIO VW22L HDTV10T, browse VIZIO's certified mount selection at [www.VIZIO.com](http://www.VIZIO.com) or call directly 888-VIZIOCE (888-849-4623).



## Table of Contents

<b>Chapter 1 Basic Controls and Connections</b> .....	<b>9</b>
1.1 Front Panel.....	9
1.2 Right Side Panel Controls .....	9
1.3 Left Side Connections .....	9
1.4 Rear Panel Connections .....	10
1.5 VIZIO Remote Control.....	11
1.5.1 Insertion of Batteries in the Remote Control.....	13
1.5.2 Remote Control Range .....	13
1.5.3 VIZIO Remote Control Precautions .....	13
<b>Chapter 2 Connecting Equipment</b> .....	<b>14</b>
2.1 Which Video Connection Should I Use?.....	14
2.2 Coaxial (RF) .....	15
2.2.1 Using Your Antenna or Digital Cable for DTV.....	15
2.2.2 Using Your Antenna or Cable for TV .....	16
2.2.3 Using the Antenna or Cable for your VCR .....	16
2.3 Connecting Your HDTV Set-Top Box.....	17
2.3.1 Using HDMI .....	17
2.3.2 Using Component Video.....	19
2.4 Connecting Your Basic Set-Top Box.....	20
2.4.1 Using Composite Video .....	20
2.4.2 Using Coax (RF).....	20
2.5 Connecting Your DVD Player.....	21
2.5.1 Using HDMI .....	21
2.5.2 Using Component Video.....	22
2.5.3 Using S-Video (AV).....	23
2.5.4 Using Composite (AV) Video.....	23
2.6 Connecting Your VCR or Video Camera .....	24
2.7 Connecting to a PC Computer.....	24
2.7.1 Preset PC Resolutions.....	25
2.7.2 Using a PC .....	25
<b>Chapter 3 Setting Up to Watch Television</b> .....	<b>26</b>
3.1 Basic LCD HDTV Start Up .....	26
3.2 Watching a TV Program .....	27
3.3 Adjusting Basic HDTV Settings .....	27
3.4 Information on HDTV Status .....	28
<b>Chapter 4 Advanced Adjustment of HDTV</b> .....	<b>29</b>
4.1 Using the On Screen Display (OSD) .....	29
4.2 Picture Adjustment .....	30
4.2.1 Video Options .....	30
4.2.2 Contrast.....	30
4.2.3 Brightness.....	30
4.2.4 Sharpness .....	30
4.2.5 Color.....	30
4.2.6 Tint.....	31
4.2.7 Backlight.....	31
4.2.8 Settings.....	31
4.3 Audio Adjustment.....	32
4.3.1 Audio Options .....	32
4.3.2 Audio Language .....	32
4.3.3 Bass.....	32
4.3.4 Treble .....	32
4.3.5 Balance.....	32
4.3.6 Digital Audio Output.....	32
4.3.7 TV Speaker.....	32
4.4 Feature.....	33
4.4.1 Feature Options.....	33



4.4.2 Time Set .....	33
4.4.3 Sleep Timer .....	33
4.4.4 Advanced Video Menu.....	33
4.4.5 Password Set .....	33
4.4.6 Parental Control.....	34
4.4.7 Digital Captions .....	34
4.4.8 Digital Closed Caption .....	34
4.4.9 Analog Caption .....	35
4.4.10 Input Label.....	35
4.4.11 Component Set.....	35
4.4.12 VGA Set.....	35
4.5 Understanding Viewing Modes.....	36
4.6 Using a Cable or Satellite Remote .....	37
<b>Chapter 5 Maintenance and Troubleshooting.....</b>	<b>37</b>
5.1 Maintenance.....	37
5.2 Troubleshooting Guide .....	38
5.3 Telephone & Technical Support .....	39
5.4 Compliance .....	40
5.5 FCC Class B Radio Interference Statement.....	40
<b>Chapter 6 Miscellaneous Information.....</b>	<b>41</b>
6.1 Specifications .....	41
6.2 Glossary – Standard Definitions .....	42
6.3 Index .....	43





## Chapter 1 Basic Controls and Connections


### 1.1 Front Panel

**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.

**Power Light** – The power light will illuminate with a red light when the HDTV is powered OFF. A blue light indicates the HDTV is powered ON.



### 1.2 Right Side Panel Controls

**Power** (  ) – Switch the VW22L on by pressing the button once. Press the button again to turn the VW22L 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.

**CH (▲/▼)** – 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.

**VOL ( +/ - )** – Use these buttons to increase or decrease to the speaker volume. While the OSD is active, these buttons function as left and right arrow to go to the next menu or increase or decrease settings.

**INPUT** – Press this button to activate the Source List. The input sources are displayed in the following sequence from top to bottom: TV, Composite, S-Video, Component, VGA, HDMI.

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

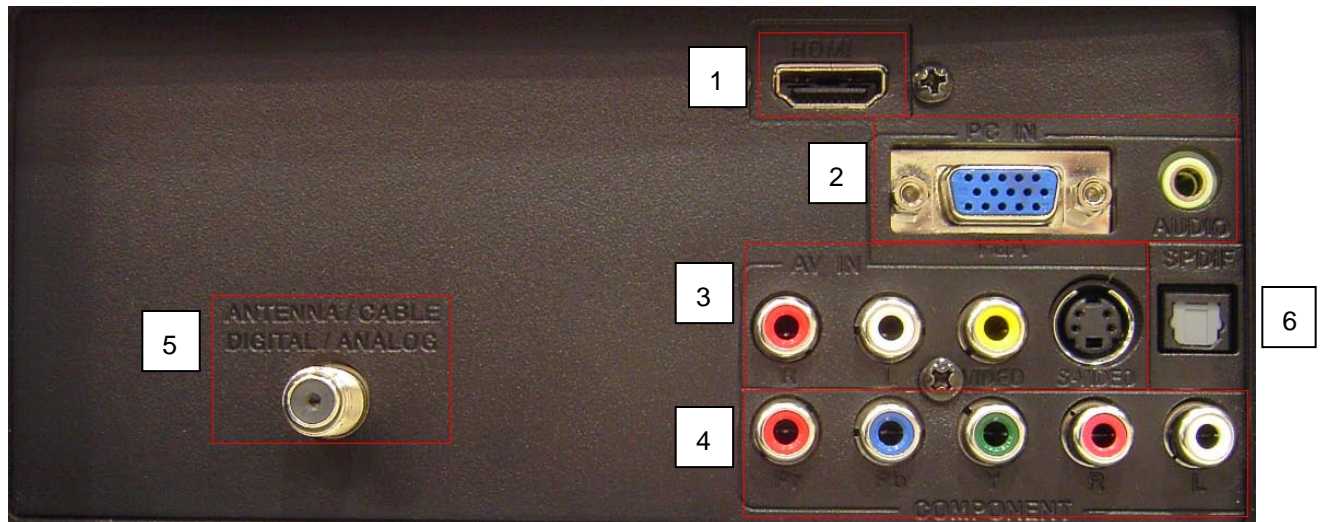


### 1.3 Left Side Connections

1. **Headphone** – To use a headphone, insert the headphone jack (1/8" stereo plug) to the headphone output connection on the left side of the HDTV.



## 1.4 Rear Panel Connections



1. **HDMI** – 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](http://www.VIZIO.com) or by calling 888-VIZIOCE (888-849-4623).
2. **RGB PC** – Connect the video and audio cables from a computer here.
3. **AV/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. The signal being carried by the S-Video cable and connector, if connected, will take priority over the Video RCA connector (yellow connector).
4. **COMPONENT (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 red for Pr, blue for Pb, green for Y, red for right audio (R) and white for left audio (L) inputs.
5. **DTV** – Connect to an antenna or digital cable (out-of-the-wall, not from Cable Box) for Digital TV.\*
6. **SPDIF (Optical Digital Audio Out)** - When a digital audio signal is associated with the input selected for viewing, the digital audio will be available on this SPDIF connection to your home theater system.

\* For digital TV stations in your area visit [www.antennaweb.org](http://www.antennaweb.org).



## 1.5 VIZIO Remote Control

**REMOTE LED** – Blinks when the remote operates.

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

**NUMBER BUTTON PAD** – Use these buttons to select a channel or enter a password.

**INPUT** – This button allows the user to select the video input signal source.

- **(Dash)** – Use this button for the separation (-) of main and sub-channels when selecting a digital channel directly. For example, channel 28-2 would be selected by the following button sequence: 2, 8, (-), 2.

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

**VOL (+ or -)** – Press to increase (+) or decrease (-) the volume.

**LAST** – This button recalls the previously viewed channel.

**MUTE** – This button turns the sound on and off. **VOL (+ or -)** – These buttons turn the volume up or down.

**MENU** – Use this button to access the On-Screen Display (OSD) menus.

**INFO** – This button displays the image and system information display.

**GUIDE** – This button has no effect because this function is not available on this HDTV.

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

 - These buttons navigate the On-Screen Display (OSD).

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



**WIDE** – This button cycles through the available screen formats. The options are Normal, Zoom, Wide1, Wide2 and Cinema. The options when a PC is connected are Normal and Wide.

**SLEEP** – This button allows the user to select the sleep options by adjusting the timer for OFF, 5, 10, 15, 30, 45, 60, 90, 120, 180, or 240 minutes.

**MTS** – This button will select the MTS options of Stereo, SAP or Mono in TV mode and alternate audio channels, where available, in DTV mode.

**CC** – This button will select the Closed Caption mode. The options are OFF, CC1, CC2, CC3 or CC4.

**TV** – Press this button to select TV.

**AV** – Repeated pressing of this button will switch between AV1 (Composite, yellow RCA) and AV2 (S-Video) inputs.

**COMPONENT** – Press this button to select the Component (YPbPr) input.

**HDMI** – Press this button to select HDMI input source.

**ZOOM (- and +)** – These buttons have no effect because this function is not available on this HDTV.

**FREEZE** – This button has no effect because this function is not available on this HDTV.

**RGB** – This button selects an RGB Analog component such as a PC.

**PIP** – This button has no effect because this function is not available on this HDTV.

**PIP CH (- and +)** – These buttons have no effect because this function is not available on this HDTV.

**AUDIO** – This button has no effect because this function is not available on this HDTV.

**PIP INPUT** – This button has no effect because this function is not available on this HDTV.

**PIP SIZE** – This button has no effect because this function is not available on this HDTV.

**MODE** – This button has no effect because this function is not available on this HDTV.

**SWAP** – This button has no effect because this function is not available on this HDTV.



### 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 26 feet (8 meters) from the front of the receiver window, about 13 feet (4 meters) when 30° to the left and right, 20° up and down.

### 1.5.3 VIZIO Remote Control Precautions

The remote control should be kept dry and away from heat sources. Avoid humidity.

If the TV responds erratically to the remote control or does not respond at all, check the batteries. If the batteries are low or exhausted, replace them with fresh batteries.

When not using the remote control for a long period of time, remove the batteries.

Do not take the batteries apart, heat them, or throw them into a fire.

Do not subject the remote control to undue physical stress, such as striking or dropping it.







Do not attempt to clean the remote control with a volatile solvent. Wipe it with a clean, damp cloth.



## Chapter 2 Connecting Equipment

### 2.1 Which Video Connection Should I Use?

The VIZIO VW22L has six different ways to connect your video equipment from a basic connection to the most advanced for digital displays.

Connection Quality (type)	Connector	Description
Best (digital)		HDMI (Video5) - 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)		DTV Coaxial RF. When used for MPEG2 encoded bit streams from ATSC broadcast programming, this input takes advantage of the High Definition content.
----- Good (analog)		----- TV Coaxial RF. This is the connection for standard NTSC TV using antenna or cable.
Best (analog)		RGB PC (Video4) – 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)		Component (Video3)- 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)		S-Video (Video2) - 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)		Composite (Video1) - 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 Coaxial (RF)

### 2.2.1 Using Your Antenna or Digital Cable for DTV



1. Turn off the power to the HDTV.
2. Connect the coaxial (RF) connector from your antenna or digital cable (out-of-the-wall, not from the Cable Box) to the ANTENNA/CABLE DIGITAL/ANALOG connector.
3. Turn on the power to the HDTV.
4. Select DTV using the INPUT button on the remote, side of the 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](http://www.antennaweb.org) for detailed information.
- c) Make sure the antenna and coaxial cable are correctly grounded.
- d) For Professional antenna installation contact us at [www.VIZIO.com](http://www.VIZIO.com) or call 1-888-VIZIOCE (1-888-849-4623).



## 2.2.2 Using Your Antenna or Cable for TV



1. Turn off the power to the HDTV.
2. Connect the coaxial (RF) connector from your antenna or cable (out-of-the-wall, not from the Cable Box) to the ANTENNA/CABLE DIGITAL/ANALOG connector at the rear of the HDTV
3. Turn on the power to the HDTV.
4. Select TV using the INPUT button on the remote, side of the HDTV or directly by pressing the TV button on the Remote Control.

## 2.2.3 Using the Antenna or Cable for your VCR



1. Turn off the power to the HDTV and VCR.
2. Connect the "Output to TV", "RF Out" or "Antenna Out" connector on the rear of your VCR to the ANTENNA/CABLE DIGITAL/ANALOG connector at the rear of the HDTV.
3. Turn on the power to the HDTV and VCR.
4. Select TV using the INPUT button on the remote, side of the 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.





## 2.3 Connecting Your HDTV Set-Top Box

### 2.3.1 Using HDMI

HDTV Set-Top 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. See [www.VIZIO.com](http://www.VIZIO.com) or call 1-888-VIZIOCE (1-888-849-4623) for details.

### Connecting your HDTV Set-Top Box (Best):



1. Turn off the power to the 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 at the rear of the HDTV.
3. Turn on the power to the HDTV and HDTV Set-Top Box.
4. Select HDMI using the INPUT button on the remote, side of the HDTV, or directly by pressing the HDMI button on the Remote Control.

**Note:**

- a) The HDMI input on the HDTV supports High-bandwidth Digital Content Protection (HDCP). HDCP encrypts the transmission between the video source and the digital display for added security and protection.
- 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.



## For HDTV Set-Top Boxes with DVI:

1. Turn off the power to the 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 at the rear of the HDTV.
3. Turn on the power to the HDTV and HDTV Set-Top Box.
4. Select HDMI using the INPUT button on the remote, side of the HDTV, or directly by pressing the HDMI button on the Remote Control.

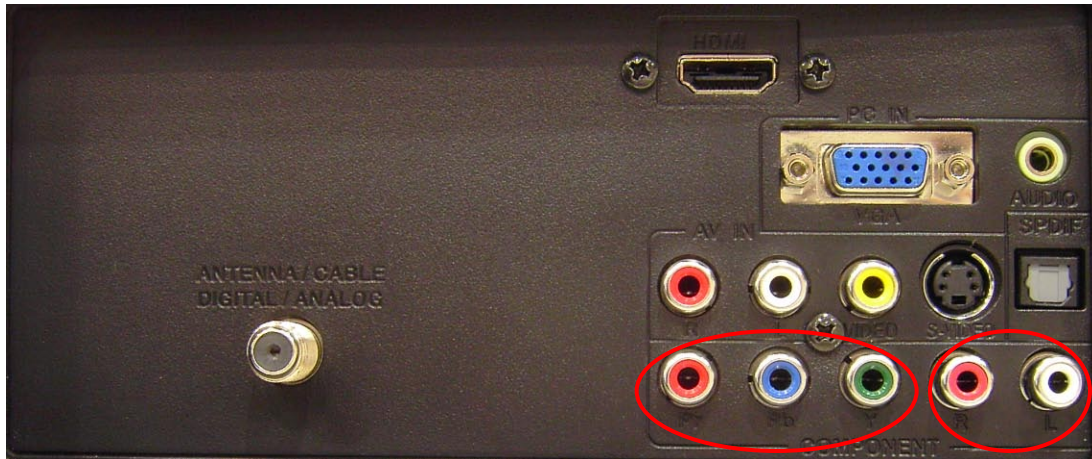
Note:

- a) The HDMI input on the HDTV supports High-bandwidth Digital Content Protection (HDCP). HDCP encrypts the transmission between the video source and the digital display for added security and protection.
- 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.
- c) The DVI to HDMI connection provides video only. Connection to an alternate audio player is required for audio.



## 2.3.2 Using Component Video

### Connecting your HDTV Set-Top Box (Better):



1. Turn off the power to the HDTV and HDTV Set-Top Box.
2. Connect the Pr (red color) connector on your HDTV Set-Top Box to the corresponding Pr (red color) connector in the Component group.
3. Connect the Pb (blue color) connector on your HDTV Set-Top Box to the corresponding Pb (blue color) connector in the Component group.
4. Connect the Y (green color) connector on your HDTV Set-Top Box to the corresponding Y (green color) connector in the Component group.
5. Using an audio cable (red and white 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.
6. Turn on the power to the HDTV and HDTV Set-Top Box.
7. Select Component (Video 3) using the INPUT button on the remote, side of the HDTV or directly by pressing the Component button on the Remote Control.

**Note:**

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.



## 2.4 Connecting Your Basic Set-Top Box

### 2.4.1 Using Composite Video



1. Turn off the power to the HDTV and Set-Top Box.
2. Using an AV Cable, connect the Video (yellow color) connector on your Set-Top Box to the corresponding Video (yellow color) connector in the AV group at the rear of the HDTV.
3. Using the red and white connectors, connect the cable to the audio output connectors associated with the Video output on your Set-Top Box and connect the other end to the audio connectors associated with the AV input at the rear of the HDTV.
4. Turn on the power to the HDTV and Set-Top Box.
5. Select Composite (Video 1) using the INPUT button on the remote, side of the HDTV or directly by pressing the AV button on the Remote Control.

### 2.4.2 Using Coax (RF)



1. Turn off the power to the HDTV and Set-Top Box.
2. Using a Coax (RF) cable, connect one end to the TV OUT (RF) on your Set Top Box and the other end to the DTV/TV input at the rear of the HDTV.
3. Turn on the power to the HDTV and Set-Top Box.
4. Select TV using the INPUT button on the remote, side of the HDTV or directly by pressing the TV button (below the WIDE button) on the Remote Control.

Note: Refer to your Set Top Box user manual for more information about selecting the video or RF output of the product.



## 2.5 Connecting Your DVD Player

### 2.5.1 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 VW22L for optimal results.

Note: To maintain the display quality, use a VIZIO certified HDMI cable available up to 10 meters. See [www.VIZIO.com](http://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 HDTV and DVD player.
2. Connect a HDMI cable to the HDMI output of your DVD player and the other end to the HDMI Input at the rear of the HDTV.
3. Turn on the power to the HDTV and DVD player.
4. Select HDMI using the INPUT button on the remote, side of the HDTV or directly by pressing the HDMI button on the Remote Control.

### For DVD Players with DVI:

1. Turn off the 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 at the rear of the HDTV.
3. Turn on the power to the HDTV and your DVD player.
4. Select HDMI using the INPUT button on the remote or side of the HDTV, or directly by pressing the HDMI button on the Remote.

Note:

1. Refer to your DVD player user manual for more information about the video output requirements of the product.
2. The DVI to HDMI connection provides video only. Connection to an alternate audio player is required for audio output.





## 2.5.2 Using Component Video

### Connecting your DVD Player (Better):



1. Turn off the power to the HDTV and DVD player.
2. Connect the Pr (red color) connector on your DVD player to the corresponding Pr (red color) connector in the Component at the rear of the HDTV.
3. Connect the Pb (blue color) connector on your DVD player to the corresponding Pb (blue color) connector in the Component group at the rear of the HDTV.
4. Connect the Y (green color) connector on your DVD player to the corresponding Y (green color) connector in the Component group at the rear of the HDTV.
5. Using an audio cable (red and white 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 input at the rear of the HDTV.
6. Turn on the power to the HDTV and DVD player.
7. Select Component using the INPUT button on the remote, side of the HDTV or directly by pressing the Component button on the Remote Control.

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



### 2.5.3 Using S-Video (AV)

#### Connecting your DVD Player (Good):



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

### 2.5.4 Using Composite (AV) Video

#### Connecting your DVD Player (Good):



1. Turn off the power to the HDTV and DVD player.
2. Connect the Video (yellow color) connector on your DVD player to the Video (yellow color) connector in the AV group.
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 group.
4. Turn on the power to the HDTV and DVD Player.
5. Select Composite (Video 1) using the INPUT button on the remote, side of the HDTV or directly by pressing the AV button on the Remote Control.



## 2.6 Connecting Your VCR or Video Camera



1. Turn off the 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 AV group on the rear of the HDTV.
3. Connect an audio cable (white and red connectors) 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 AV input on the rear of the HDTV.
4. Turn on the power to the HDTV and VCR or Video Camera.
5. Select S-Video (Video 2) using the INPUT button on the remote, side of the 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.

## 2.7 Connecting to a PC Computer



1. Turn off the power to the 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 at the rear of the HDTV.
3. Connect the Audio Out on your pc computer to the RGB PC Audio input at the rear of the HDTV.
4. Turn on the HDTV and PC Computer.
5. Select RGB using the INPUT button on the remote, side of the HDTV or directly by pressing the RGB button on the Remote.

Note: For the best picture quality when connecting a PC computer through RGB PC, set your PC computer timing mode to VESA 1680 x 1050 at 60Hz. Please refer to the PC or graphic card's user guide for additional information on how to set the timing mode and the video output requirements of the product.





### 2.7.1 Preset PC Resolutions

Resolution	Refresh (Hz)	H.Freq (kHz)	V.Freq (Hz)	H.Sync	V.Sync	Pixel Freq (MHz)
640x480	60	31.47	59.94	N	N	25.175
640x480	72	37.86	72.81	N	N	31.500
640x480	75	37.50	75.00	N	N	31.500
800x600	56	35.16	56.25	P	P	36.000
800x600	60	37.88	60.32	P	P	40.000
800x600	72	48.08	72.19	P	P	50.000
800x600	75	46.87	75.00	P	P	49.500
1024x768	60	48.36	60.00	N	N	65.000
1024x768	70	56.48	70.07	N	N	75.000
1024x768	75	60.02	75.03	P	P	78.750
*1680x1050	60	64.67	59.88	P	N	119.000

NOTES: N = Negative, P = Positive, \* = Primary (Native) Mode

### 2.7.2 Using a PC

If connecting to a PC through the RGB PC input, set the TV timing mode to VESA 1680x1050 at 60Hz for best picture quality (refer to the graphic card's user guide for questions on how to set this timing mode). Please see the table above for the factory preset resolutions.



## Chapter 3 Setting Up to Watch Television

### 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 HDTV, and then plug the power cord into an AC wall socket.
2. **Connect Audio and Video Cables to the HDTV**  
(see pages 14 ~ 24 for detailed steps)
3. **Turning Power On**  
Once all the components are connected, press the Power ON button on the side of the HDTV, or press the Power ON button on the remote control.
4. **Select Input Source**  
Select the Input Source for the 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, Composite, S-Video, Component, VGA, HDMI.
5. **Using DTV and TV with an Antenna or Cable**  
At first power on, the HDTV will have the DTV/TV input selected and will guide through some setup screens. If it is not the first time the HDTV has been powered on, you will need to select TV using the INPUT button on the remote control or the side of the HDTV, or directly by pressing the TV button on the remote control, and Auto Scan for the available TV channels.

- a. Press Menu on the remote or the side of the HDTV to bring up the On Screen Display (OSD).
- b. Select the **SETUP** option and press the right arrow button on the remote control to enter the SETUP menu.
- c. Highlight the **AUTO CH SEARCH** option and press right arrow button on the remote to begin search. *Note: You can press **EXIT** to stop the channel search.*
- d. It is also possible to manually add or delete channels from the channel list after using the Auto CH Search. Highlight the **Manual Channel Set** option and press the right arrow button on the remote to open the Manual Channel Set Menu. Press the up and down buttons on the remote control to select the channel and press the OK button to toggle between Viewable and Not Viewable selections.
- e. Press the Exit button on the remote control to close the OSD and begin watching TV.



Note: DTV digital broadcast is not available in all areas. Refer to [www.antennaweb.org](http://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.



## 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 HDTV. The red power light on the HDTV will be replaced by a blue light to indicate that the HDTV is powered ON. It can take up to 10 seconds before the picture appears.
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 HDTV.
  - b. If you are watching broadcasts through a cable or satellite set-top box connected by an HDMI cable, select HDMI directly by pressing the HDMI button on the remote, or by pressing the INPUT button on the remote or on the side of the HDTV.
  - c. If you are watching broadcasts through a cable or satellite set-top box connected by a Component (YPbPr) cable, select Component directly by pressing the Component button on the remote, or by pressing the INPUT button on the remote or on the side of the HDTV.

Note: You should be able to see a picture. If you do not, make sure that all of the 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 HDTV to change the channel. Note: The Channel buttons, on the side of the HDTV and on the remote, control will not work if you are watching a program using HDMI, Component and AV inputs.

## 3.3 Adjusting Basic 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 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

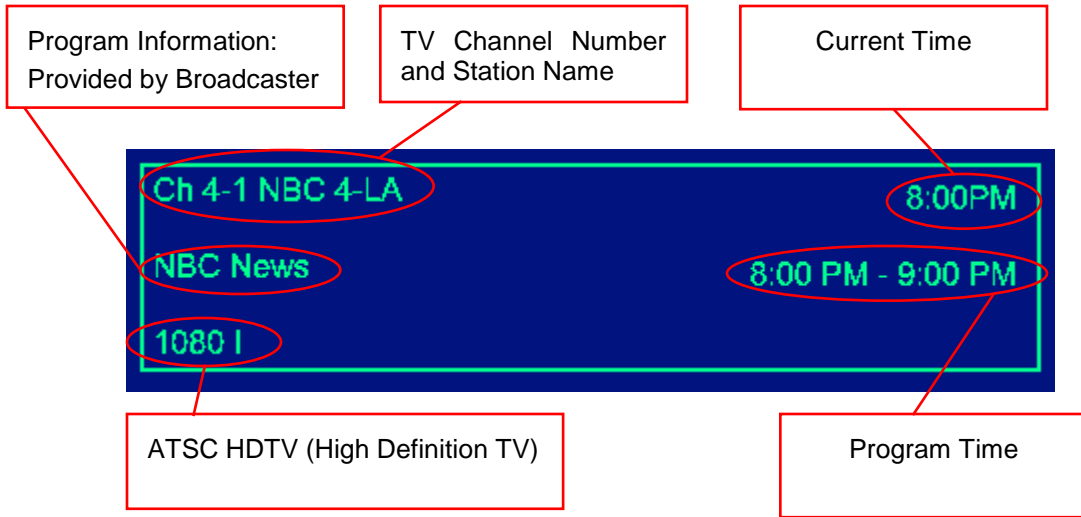
Using this feature, you can watch video content in different size modes on the HDTV. Press the WIDE button on the remote control to switch among the modes.

For more information see Section 4.5 - Understanding Viewing Modes, on page 36.



### 3.4 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 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: SETUP, VIDEO, AUDIO and FEATURE.

*Note: Some of the submenu options may vary depending on your selected input source.*



1. Press the MENU button on the remote control or the side of the TV and the OSD menu will be shown on the screen.
2. Press the UP and Down arrow buttons on the remote control or buttons the CH + or CH – buttons on the side of the HDTV to select one of the other menu options.
3. Once the menu option is displayed, press the Left arrow button on the remote control or the VOL + or VOL – button on the side of the TV to select one of the items to adjust.
4. Press OK when finished.
5. Repeat steps 2 through 5 to adjust additional options within this menu.
6. Once the adjustments are completed press the EXIT button to exit the OSD completely.



## 4.2 Picture Adjustment

### 4.2.1 Video Options

Press the MENU button to activate the On Screen Display (OSD). Select the VIDEO option to adjust the Contrast, Brightness, Sharpness, Color, Tint and the Backlight.



### 4.2.2 Contrast

Select the Contrast option in the Video submenu.

Press the Right and Left arrow buttons 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.

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.

### 4.2.3 Brightness

Select the Brightness option in the Video submenu.

Press the Right and Left arrow buttons 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.

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.

### 4.2.4 Sharpness

Select the Sharpness option in the Video submenu.

Press the Right and Left arrow buttons 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.

The Sharpness adjusts the sharpness of the picture.

*Note: This option is not available when VGA (Video 4) is selected as the input source.*

### 4.2.5 Color

Select the Color option in the Video submenu.

Press the Right and Left arrow buttons 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.

The Color adjusts the amount of color in the picture.

*Note: This option is not available when VGA (Video 4) is selected as the input source.*



### 4.2.6 Tint

Select the Tint option in the Video submenu.

Press the Right and Left arrow buttons 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 color level between the minimum and maximum available levels.

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.

*Note: This option is not available when VGA (Video 4) is selected as the input source.*

### 4.2.7 Backlight

Select the Backlight option in the Video submenu.

Press the Right and Left arrow buttons to start adjusting the Backlight and the menu page will disappear and be replaced by a small Backlight Indicator Bar so you can see the backlight level between the minimum and maximum levels (1 ~ 10).

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.

### 4.2.8 Settings

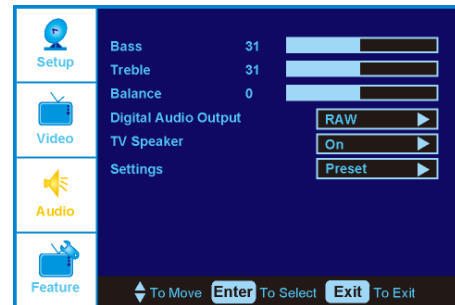
Select the Settings option in the Video submenu. Press the Right arrow button on the remote control to restore all video settings to factory default.



## 4.3 Audio Adjustment

### 4.3.1 Audio Options

Press the MENU button to activate the On Screen Display (OSD). Select the AUDIO option to adjust the Audio Language, Bass, Treble, Balance, Digital Audio Output and TV Speaker settings.



### 4.3.2 Audio Language

Select the Audio Language option in the Audio submenu.

Press the right arrow button to select an alternate language if more than one language is available for the program (Default, English, Español, Français).

*Note: This option is only available when ATSC TV selected as the input source.*

### 4.3.3 Bass

Select the Bass option in the Audio submenu.

Press the Right and Left arrow buttons to start adjusting the Bass and the menu page will disappear and be replaced by a small Bass Indicator Bar so you can see the bass level between the zero and maximum available levels.

### 4.3.4 Treble

Select the Treble option in the Audio submenu.

Press the Right and Left arrow buttons to start adjusting the Treble and the menu page will disappear and be replaced by a small Treble Indicator Bar so you can see the treble level between the zero and maximum available levels.

### 4.3.5 Balance

Select the Balance option in the Audio submenu.

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

### 4.3.6 Digital Audio Output

Select the Digital Audio Output option in the Audio submenu.

Press the right arrow button to select RAW, PCM or OFF.

### 4.3.7 TV Speaker

Select the TV Speaker option in the Audio submenu.

Press the right arrow button to select ON or OFF. You may want to turn-off the internal speakers when listening to the audio through your Home Theatre System.





## 4.4 Feature

### 4.4.1 Feature Options

Press the MENU button to activate the On Screen Display (OSD). Select the FEATURE option to adjust the Time, Sleep Timer, Advanced Video Menu, Password, Parental Control, Analog Captions, Digital Captions, Digital Closed Caption, Input Label, Component Set, and VGA Set settings.

*Note: The options may vary depending on the selected Input source mode.*



### 4.4.2 Time Set

Select the Time Set option in the Feature submenu to set the current time.

Press the right arrow button to select from Alaska, Hawaii, Pacific, Central, Mountain or Eastern time zones.

### 4.4.3 Sleep Timer

Select the Sleep Timer option in the Feature submenu to set the HDTV to turn off automatically.

Press the right arrow button to select from OFF, 5, 10, 15, 30, 45, 60, 90, 120, 180, or 240 minutes.

### 4.4.4 Advanced Video Menu

Select the Advanced Video Menu option in the Feature submenu to set the Noise Reduction, Color Temperature, 3D Y/C and Dynamic Contrast.

The **Noise Reduction** may be set to OFF, Low, Mid or High. Use this feature to diminish picture artifacts caused by the digitizing of image motion content that may be present in the picture.

The **Color Temperature** may be set to Cool, Normal or Warm.

The **3D Y/C** may be set to ON or OFF.

The **Dynamic Contrast** may be set to ON or OFF. Large areas of darkness in a picture will result in a lower Average Picture Level (APL) causing the overall picture to look too dark. Activate this feature to raise the APL.

### 4.4.5 Password Set

Select the Password Set option in the Feature submenu to set the password for parental control options.

Press the right arrow button and the Password panel will be displayed. Enter the four digit password using the number buttons on the remote control. Enter it a second time to confirm you entered it correctly.

*Note: If you forget your password, entering 3448 will allow you to set a new password. This feature is not available when HDMI, Component, or VGA is selected as the input source.*



### 4.4.6 Parental Control

Select the Parental Control option in the Feature submenu to set the parental control levels for USA and Canada ratings.

Press the right arrow button and the Password panel will be displayed. Enter your password and the Parental Control menu will open.

Select USA Parental Locks or Canadian Parental Locks by highlighting the selection and pressing the right arrow button to open the selection.

Use the arrow buttons on the remote control to highlight the rating to be locked and press the OK button.

All ratings higher than your selection will also be locked. For example, if the “PG-13” rating is selected as your choice, the “R”, “NC-17”, and “X” ratings will also be locked.

TV Ratings may also be used to 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:

- FV – Fantasy Violence
- L – Adult language
- S – Sexual situations
- V - Violence
- D – Sexually suggestive dialog

**Note:** This feature is not available when HDMI, Component, or VGA is selected as the input source.

### 4.4.7 Digital Captions

When watching DTV, the Digital Captions feature is available in the Feature menu.

Press the right arrow button to select from Service 1-6, Text 1-4, and CC 1-4.

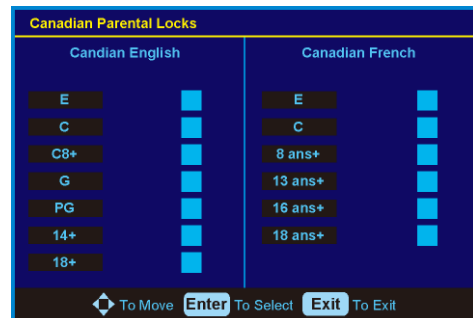
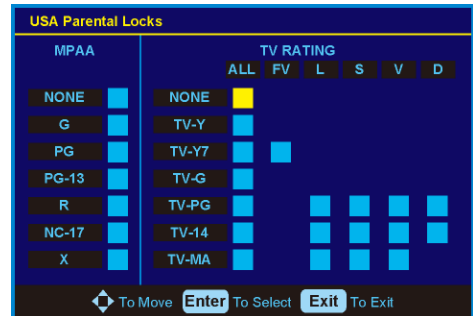
**Note:** This feature is not available when HDMI, Component, or VGA is selected as the input source.

### 4.4.8 Digital Closed Caption

Select the Digital Closed Caption option in the Feature submenu.

Press the right arrow button to open the Digital Closed Caption Menu. You can adjust the Size, Font, Text Color, Text Opacity, Background Opacity, Edge Effect and Edge Color.

**Note:** This feature is not available when HDMI, Component, or VGA is selected as the input source.



#### 4.4.9 Analog Caption

The Analog Caption feature is available in the Feature menu when a Composite input source is selected. Press the right arrow button to select from Text 1-4, and CC 1-4.

*Note: This feature is only available when Composite or S-Video is selected as the input source.*

#### 4.4.10 Input Label

The Input Label feature is available in the Feature menu. Press the right arrow button to open the Input Label panel.

This feature has been added to allow you to modify the input label. You can use up to ten characters to label the input.

*Note: This feature is not available when DTV/TV is selected as the input source.*

#### 4.4.11 Component Set

The Component Set option is available in the Feature menu. This option lets you adjust the Horizontal Position, Vertical Position, and Phase. Select the Settings option to restore to factory default settings.

*Note: This feature is only available when Component is selected as the input source.*

#### 4.4.12 VGA Set

The VGA Set option is available in the Feature menu. This option lets you adjust the Horizontal Position, Vertical Position, Clock and Phase. You can also select Auto Adjust to automatically set the settings. Select the Settings option to restore to factory default settings.

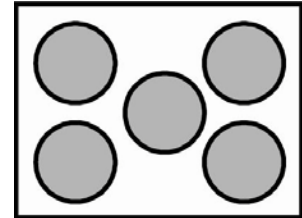
*Note: This feature is only available when VGA is selected as the input source.*



## 4.5 Understanding Viewing Modes

### 4:3 Mode

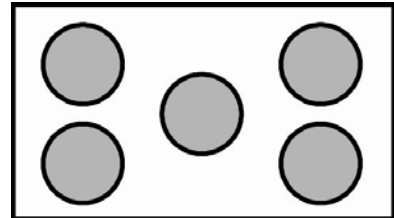
The original 4:3 aspect ratio (1.33:1 source) is preserved, so black bars are added to the left and right of the display image. Standard TV broadcasts are displayed with a 4:3 Aspect Ratio. Movies in 4:3 Aspect Ratio may be referred to as pan-and-scan or full frame. These movies were originally filmed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



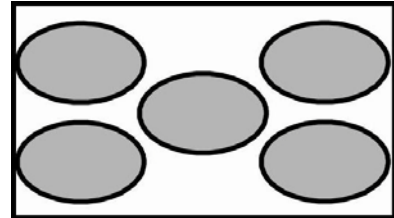
### 16:9 Mode

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.

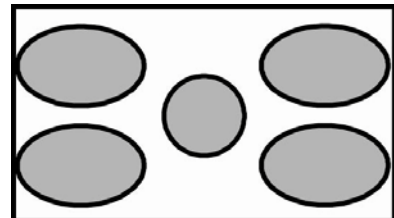


When watching a standard definition 4:3 aspect ratio (1.33:1 source) the picture will fill the screen but will be stretched horizontally; people will look fatter than they are.



### 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.



## 4.6 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 a soft cloth 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 a soft non-abrasive cloth 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 1-714-668-0588 or e-mail us at [techsupport@vinc.com](mailto:techsupport@vinc.com).

Problem	Solution
No power.	<p>Make sure you have pressed the power button on the remote or on the TV.</p> <p>Make sure AC power cord is securely connected to the AC socket.</p> <p>Plug another electrical device (like a radio) to the power outlet to verify that the outlet is supplying the proper voltage.</p>
No sound.	<p>Check your audio connection</p> <p>Press MUTE on the remote control, so that mute symbol disappears from the screen</p> <p>Check your audio settings, your TV audio may be set to SAP, min or speakers off</p> <p>Press the Volume + (Up) key on your remote control</p> <p>Make sure that headphones are not connected</p>
If the screen is black.	Check your input connections.
Power is ON but no screen image.	<p>Make sure the video cable supplied with the TV is secured to the correct video 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.</p> <p>Adjust brightness and contrast.</p> <p>Check Source settings.</p>
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.	<p>Make sure batteries are inserted correctly</p> <p>Batteries could be weak.</p>
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.	<p>Make sure that the power cord is plugged into a grounded electrical outlet.</p> <p>Make sure that the power button is turned on.</p> <p>Make sure that the selected input source is connected to a working input source.</p> <p>If your TV is connected to your computer in RGB or HDMI mode, press any key on your keyboard to "wake" your computer.</p>
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.	<p>Make sure that the input source cable is attached securely and correctly to the back of your TV.</p> <p>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.</p>
The display image does not	If you are using RGB mode, make sure that H Size and V Position in the On Screen



Problem	Solution
cover the entire 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 (AV, Component, HDMI and TV).
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.

### 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 email or phone.

E-mail: [techsupport@vizio.com](mailto:techsupport@vizio.com)

Tel: (877) 698-4946

Hours of operations:

6:00am – 9:00pm 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

Web: [www.VIZIO.com](http://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	22" Diagonal, 16:10 Aspect Ratio
Resolution	1680 x 1050 pixels
Pixel (Dot) Pitch	0.282mm (H) x 0.282 mm (V)
Display Compatibility	HDTV (720P)
Brightness	300 cd/m <sup>2</sup> (typical)
Contrast	1000:1 (typical)
Response Time	5ms (typical)
Viewing Angle	160° (horizontal), 160° (vertical)
Inputs	1x Co-axial RF (ATSC/QAM/NTSC), 1x HDMI™ with HDCP, 1x Component YPbPr plus Stereo Audio, 1x RGB PC plus Stereo Audio, 1x S-Video plus Stereo Audio, 1x Composite Video
Outputs	1x Headphone, 1x SPDIF
Features	De-interlacer, 3D Comb Filter, 3:2 Pull Down Recovery, Sleep Timer, Wall Mountable, Multiple Picture Mode, Time Set, V-Chip Parental Control, Digital Closed Caption. Supports 480i (SDTV), 480P (EDTV), 720P (HDTV), 1080i (HDTV) and 1080P (HDTV) TV Signals.
Speakers	3 Watts x 2
Power	
Input	IEC Connector for direct power line connection
Voltage Range	100 ~ 240Vac at 50/60Hz
Power Consumption	60W max.
Environmental Conditions	
Operating	Temperature: 5°C~35°C, Relative Humidity: 20~80%, Altitude: 0~12,000 ft
Non-Operating	Temperature: -20°C~50°C, Relative Humidity: 10~90%, Altitude: 0~40,000 ft
Dimensions	20.2" W x 15.8" H x 5.7" D with stand; 20.2" W x 14.4" H x 2.6" D without stand
Net Weight	13.3 lbs with stand, 12.1 lbs without stand
Certifications	CSA/C-UL, FCC Class B

\*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](http://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.



## 6.3 Index

### A

- Accessories, 4
- Adjustments
  - Closed Caption, 12
  - Selecting the Screen Size, 27, 36, 42
  - Selecting the Screen Size, 12
  - Stepping through TV Channels, 27
  - Volume, 9, 27, 38

### C

- Cleaning your VIZIO TV, 37
- Coax (RF)
  - Connecting for DTV, 15
  - Connecting for TV, 16
  - Connecting your Basic Set Top Box, 20
- Compliance, 40
- Component
  - Connecting your DVD Player, 22
  - Connecting your HDTV Set-Top Box, 19
- Composite (AV)
  - Connecting your Basic Set-Top Box, 20
  - Connecting your DVD Player, 23
- Contents, 4
- Controls
  - Front Panel, 9
  - Side Panel, 9

### D

- DTV
  - Audio Adjustment, 32
  - Picture Adjustment, 30
  - Tuner Setup, 33
- DTV Audio Adjust
  - Balance, 32
  - Bass, 32
  - Digital Output, 32
  - Language, 32
  - Treble, 32
  - TV Speaker, 32
  - Volume, 32
- DTV Feature Setup
  - Advanced Video Menu, 33
  - Analog Captions, 35
  - Auto Search, 33
  - Component Set, 35
  - Digital Captions, 34
  - Digital Closed Caption, 34
  - Input Label, 35
  - Parental Control, 34
  - Password Set, 33
  - Sleep Timer, 33
  - TV Input, 33
  - VGA Set, 35

### DTV Picture Adjust

- Backlight, 31
- Brightness, 30
- Color, 30
- Contrast, 30
- Settings, 31
- Sharpness, 30
- Tint, 31

### DVI

- Connecting your DVD Player, 21
- Connecting your HDTV Set-Top Box, 18

### F

- FCC Class B Radio Interference Statement, 40

### G

- Glossary, 42

### H

#### HDMI

- Connecting your DVD Player, 21
- Connecting your HDTV Set-Top Box, 17

### I

#### Inputs

- Antenna, 3
- Connectors, 14
- Left Side, 9
- Rear Label, 10

#### Installation

- Base removal, 6
- Preparation, 5
- Safety Instructions, 2
- Wall Mounting, 6

### O

#### OSD

- Brightness Adjustment, 41
- Closed Caption Selection, 12
- Contrast Adjustment, 41

### P

- PC Resolutions, 25

### R

- Remote, 11
  - Batteries, 13
  - Range, 13



Remote Control

Using your Cable or Satellite Remote to Operate your  
VIZIO TV, 37

RGB

Connecting your PC, 24

## S

Screen Size explanation, 36

S-Video

Connecting your DVD Player, 23

Connecting your VCR, 24

Connecting your Video Camera, 24

## T

Technical Specifications, 41

Technical Support, 39

Troubleshooting Guide, 38

TV

Audio Adjustment, 32

Picture Adjustment, 30

TV Audio Adjust

Balance, 32

Bass, 32

Treble, 32

TV Tuner Setup, 33

## W

Watching TV

Basic Adjustments, 27

Basic connections, 26

First Startup, 26

Getting your Programs, 27

Status Information, 28

