## Operating Guide | Warranty

Model Numbers | E44W46LCD, E44W48LCD, M52W56LCD | LCD TV











#### **WARNING:**

TO REDUCE THE RISK OF ELECTRIC SHOCK DO NOT REMOVE COVER (OR BACK). NO USER SERVICEABLE PARTS INSIDE. REFER TO QUALIFIED SERVICE PERSONNEL.



The lightning flash with arrowhead symbol, within an equilateral triangle, is intended to alert the user to the presence of uninsulated "dangerous voltage" within the product's enclosure that may be of sufficient magnitude to constitute a risk of electric shock to persons.



The exclamation point within an equilateral triangle is intended to alert the user to the presence of important operating and maintenance (servicing) instructions in the literature accompanying the appliance.

#### **WARNING:**

TO PREVENT FIRE OR SHOCK HAZARDS, DO NOT EXPOSE THIS PRODUCT TO RAIN OR MOISTURE.

#### POWER CORD POLARIZATION:

CAUTION: TO PREVENT ELECTRIC SHOCK, MATCH WIDE BLADE OF PLUG TO WIDE SLOT, FULLY INSERT.

ATTENTION: POUR ÉVITER LES CHOCS ÉLECTRIQUES, INTRODUIRE LA LAME LA PLUS LARGE DE LA FICHE DANS LA BORNE CORRESPONDANTE DE LA PRISE ET POUSSER JUSQU'AU FOND.

#### **NOTE TO CABLE/TV INSTALLER:**

This reminder is provided to call the CATV system installer's attention to Article 820-40 of the National Electric Code (U.S.A.). The code provides guidelines for proper grounding and, in particular, specifies that the cable ground shall be connected to the grounding system of the building, as close to the point of the cable entry as practical.

#### **REGULATORY INFORMATION:**

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 when the equipment is operated in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, 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:

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

Any changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

#### **CAUTION:**

Do not attempt to modify this product in any way without written authorization from LG Electronics Corporation. Unauthorized modification could void the user's authority to operate this product.

#### **COMPLIANCE:**

The responsible party for this product's compliance is: Zenith Electronics Corporation
1-201-816-2000
Marked and Distributed in the United States by LG Electronics U.S.A., Inc. 1000 Sylvan Avenue, Englewood Cliffs, NJ 07632
http://www.zenith.com

PAGE 2

# **IMPORTANT SAFETY INSTRUCTIONS**

#### Important safeguards for you and your new product

Your product has been manufactured and tested with your safety in mind. However, improper use can result in electrical shock or fire hazards. To avoid defeating the safeguards that have been built into your new product, please read and observe the following safety points when installing and using your new product, and save them for future reference. Observing the simple precautions discussed in this manual can help you get many years of enjoyment and safe operation that are built into your new product.

This product complies with all applicable U.S. Federal safety requirements, and those of the Canadian Standards Association.

#### 1. Read Instructions

All the safety and operating instructions should be read before the product is operated.

#### 2. Follow Instructions

All operating and use instructions should be followed.

#### 3. Retain Instructions

The safety and operating instructions should be retained for future reference.

#### 4. Heed Warnings

All warnings on the product and in the operating instructions should be adhered to.

### 5. Cleaning

Unplug this product from the wall outlet before cleaning. Do not use liquid cleaners or aerosol cleaners. Use a damp cloth for cleaning.

#### 6. Water and Moisture

Do not use this product near water, for example, near a bath tub, wash bowl, kitchen sink, or laundry tub, in a wet basement, or near a swimming pool.

### 7. Accessories, Carts, and Stands

Do not place this product on a slippery or tilted surface, or on an unstable cart, stand, tripod, bracket, or table. The product may slide or fall, causing serious injury to a child or adult, and serious damage to the product. Use only with a cart, stand, tripod, bracket, or table recommended by the manufacturer, or sold with the product. Any mounting of the product should follow the manufacturer's instructions, and should use a mounting accessory recommended by the manufacturer.

#### 8. Transporting Product

A product and cart combination should be moved with care. Quick stops, excessive force, and uneven surfaces may cause the product and cart combination to overturn.

#### 9. Attachments

Do not use attachments not recommended by the product manufacturer as they may cause hazards.

#### 10. Ventilation

Slots and openings in the cabinet are provided for ventilation and to ensure reliable operation of the product and to protect it from overheating, and these openings must not be blocked or covered. The openings should never be blocked by placing the product on a bed, sofa, rug, or other similar surface. This product should not be placed in a built-in installation such as a bookcase or rack unless proper ventilation is provided or the manufacturer's instructions have been adhered to.

#### 11. Power Sources

This product should be operated only from the type of power source indicated on the marking label. If you are not sure of the type of power supply to your home, consult your product dealer or local power company. For products intended to operate from battery power, or other sources, refer to the operating instructions.

### 12. Power-Cord Polarization

This product is equipped with a polarized alternating-current line plug (a plug having one blade wider than the other). This plug will fit into the power outlet only one way. This is a safety feature. If you are unable to insert the plug fully into the outlet, try reversing the plug. If the plug should still fail to fit, contact your electrician to replace your obsolete outlet. Do not defeat the safety purpose of the polarized plug.

#### 13. Power-Cord Protection

Power-supply cords should be routed so that they are not likely to be walked on or pinched by items placed upon or against them, paying particular attention to cords at plugs, convenience receptacles, and the point where they exit from the product.

(Continued on next page)

206-04006 PORTABLE CART WARNING

PAGE 3

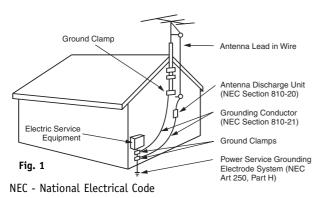
# **IMPORTANT SAFETY INSTRUCTIONS**

(Continued from previous page)

#### 14. Outdoor Antenna Grounding

If an outside antenna or cable system is connected to the product, be sure the antenna or cable system is grounded to provide protection against voltage surges and built-up static charges. Article 810 of the National Electrical Code (U.S.A.), 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 grounding conductors, location of antenna-discharge unit, connection to grounding electrodes, and requirements for the grounding electrode.

# Example of Grounding According to National Electrical Code Instructions



#### 15. Lightning

For added protection for this product (receiver) during a lightning storm, or when it is left unattended and unused for long periods of time, unplug it from the wall outlet and disconnect the antenna or cable system. This will prevent damage to the product due to lightning and power-line surges.

#### 16. Power Lines

An outside antenna system should not be located in the vicinity of overhead power lines or other electric light or power circuits, or where it can fall into such power lines or circuits. When installing an outside antenna system, extreme care should be taken to keep from touching such power lines or circuits as contact with them might be fatal.

#### 17. Overloading

Do not overload wall outlets and extension cords as this can result in a risk of fire or electric shock.

#### 18. Object and Liquid Entry

Never push objects of any kind into this product through

openings as they may touch dangerous voltage points or short-out parts that could result in a fire or electric shock. Never spill liquid of any kind on the product.

### 19. Servicing

Do not attempt to service this product yourself as opening or removing covers may expose you to dangerous voltage or other hazards. Refer all servicing to qualified service personnel.

### 20. Damage Requiring Service

Unplug this product from the wall outlet and refer servicing to qualified service personnel under the following conditions:

- a. If the power-supply cord or plug is damaged.
- b. If liquid has been spilled, or objects have fallen into the product.
- c. If the product has been exposed to rain or water.
- d. If the product does not operate normally by following the operating instructions. Adjust only those controls that are covered by the operating instructions as an improper adjustment of other controls may result in damage and will often require extensive work by a qualified technician to restore the product to its normal operation.
- e. If the product has been dropped or the cabinet has been damaged.
- f. If the product exhibits a distinct change in performance

#### 21. Replacement Parts

When replacement parts are required, be sure the service technician has used replacement parts specified by the manufacturer or have the same characteristics as the original part. Unauthorized substitutions may result in fire, electric shock, or other hazards.

#### 22. Safety Check

Upon completion of any service or repairs to this product, ask the service technician to perform safety checks to determine that the product is in proper operating condition.

### 23. Wall or Ceiling Mounting

The product should be mounted to a wall or ceiling only as recommended by the manufacturer. The product may slide or fall, causing serious injury to a child or adult, and serious damage to the product.

#### 24. Heat

The product should be situated away from heat sources such as radiators, heat registers, stoves, or other products (including amplifiers) that produce heat.

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## Setup Checklist

Step 1. Make all equipment and source connections. See pages 10-17.

Step 2. Install batteries in remote control and do a channel search. See page 22.

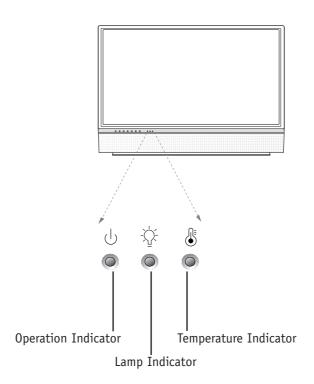
Step 3. Adjust TV features and options to your preference. See contents above.

Note: Design and specifications are subject to change without prior notice.

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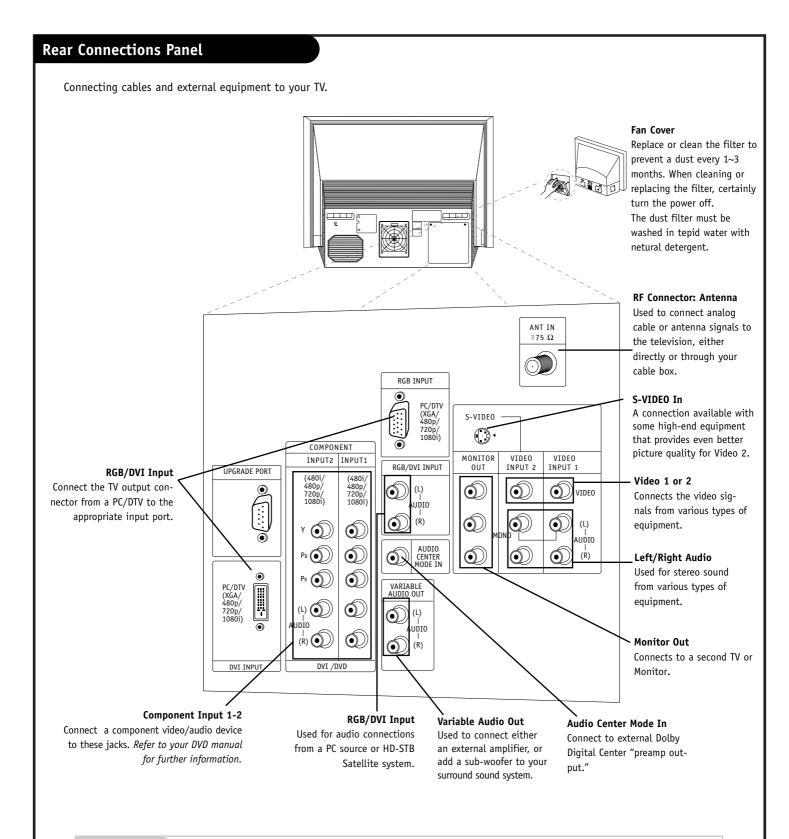
## **Function Status Indicators**

Lamp indicator, operation indicator, and temperature indicator located below the front panel controls, reveal the operating status of the LCD projection TV.



	Off	Power cord is not connected.	
Operation Indicator	Red	Power Cord is connected, TV is in standby mode.	
	Green	TV turns on.	
	Orange (flashing)	Preparing operation in standby mode.	
	Orange	Projection lamp is reaching the end of its life and needs to	
Lamp Indicator		be replaced with a new lamp. Contact your service center.	
	Red (flashing)	There is a problem with the lamp or around it. Contact an	
		authorized service center.	
	Green (flashing)	The lamp cover is not closed.	
Orange		The projection TV is overheating. Check the blocked vents of	
Temperature Indicator		the projection TV and the accumulated dust in the dust filter.	
	Red	The projection TV shut down due to overheating.	
	Red (flashing)	The projection TV shut down, check the cooling fan. Contact	
		your service center.	

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#### Mini glossary

JACK A connection on the back of a TV, VCR, or any other A/V device. This includes the RF jack and the Audio/Video jacks that are color-

coded.

SIGNAL Picture and sound traveling through cable, or over the air, to your television screen.

## **Side Connection Panel**

There are four jacks on the left side on your projection TV that make connecting Audio/Video devices like video games and camcorders very simple.

The jacks are like those found on the back jack connection panel. This means that most equipment that connects to those types of jacks on the rear jackpack, may be connected to the side connection panel.

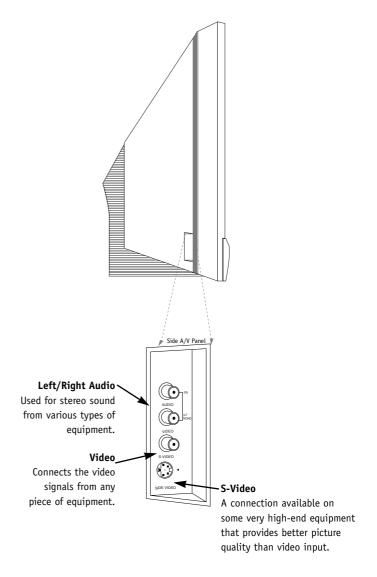
To use the side jacks as the signal source, select them using Main Input menu as described on page 25. They will be named "Side Video" in the Main Input menu.



If you input both Side Video and S-Video, only the S-Video will work.



If you're connecting a video game device, make sure to change the picture settings with the EZ Picture option in the Video menu (see page 29).



#### Mini glossary

A/V CABLES Audio/Video cables. Three cable connector—Right audio (red), Left audio (white), and Video (yellow). A/V cables are used for stereo playback of videocassettes and for higher quality picture and sound from other A/V devices.

A/V DEVICE Any device that produces video or sound (VCR, DVD, cable box, or television).

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## **ANT / Cable Service Hookup**

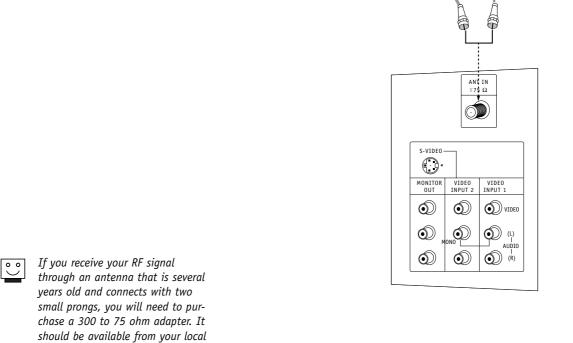
Connect an antenna or cable service to your TV as shown.

Turn to page 22 to do a channel search with EZ Scan for Ant/Cable connection(s).

electronics dealer.

in order to prevent interference.

We recommend using a 75 ohm cable for your antenna connections



Cable TV Wall Jack Panel

RF Coaxial Wire

(75 ohm)

Antenna

RF Coaxial Wire

(75 ohm)

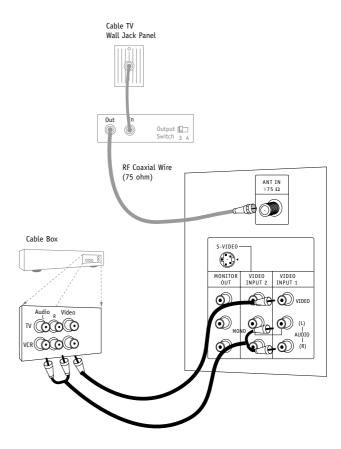
For best signal reception, it is recommended to have your Antenna professionally adjusted.

## **Cable Box Connections**

Locate the output jack on the back of your cable box. Connect this to the Antenna jack on the back of your TV.

Or find the composite video and audio jacks on the back of your cable box, and connect them following the instructions provided with your equipment.

This can be combined with any other equipment you may want to hook up.





If you're using a cable box, leave the TV on channel 3 or 4 and use your cable box to change channels.

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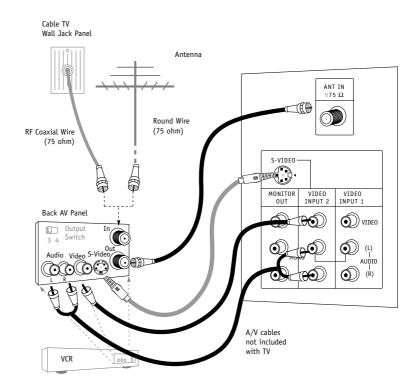
### **VCR Connections**

1

Locate the Antenna jack on the back of your TV. Connect this to RF out jack on the back of your VCR.

Or, find the composite video and audio jacks on the back of your VCR, and connect them following the instructions provided with your equipment.

You may connect either the composite video or the S-Video cables to your TV. (Do not connect both the composite and the S-Video cables. In the event that you connect both composite and the S-Video cables, only the S-Video will work.)





To hear stereo sound from cable or your VCR, you will need to connect A/V cables as well as the wire that runs from the VCR to your TV.



If you want to receive your signals on Channel 3 or 4, locate the Out to TV jack on your VCR. Connect a cable from the Out to TV jack to the Antenna In jack on the back of your TV.



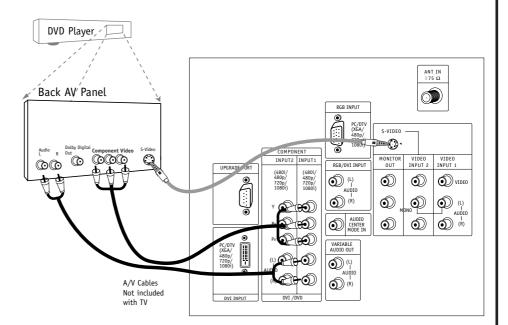
After connecting external equipment to the TV, don't display a still picture for a long time on the screen. Doing so may damage the TV screen.

1

Find the audio and component or S-Video jacks on the back of your DVD Player and connect them following the instructions provided with your equipment.

You may connect either the composite video or the S-Video cables to your TV. Do not connect both the composite and the S-Video.

Some high-end DVD players use a picture reproduction system called "component video." If your DVD player has component output, use the connectors marked "Component 1/2" on the jack panel. Please refer to your DVD manual for proper installation.



#### Component 1 (or 2) Input

	Y	Рв	PR	
1920X1080i				
1280X720p				
720X480p				
	7	20X48	80i	

Component Input ports
 Connect DVD player jacks to Monitor
 Component input jacks as indicated below.

Component input jacks on the Monitor	Y	Рв	Pr
Video output jacks on DVD player	Y Y Y	Pb B-Y Cb PB	Pr R-Y Cr Pr

### Mini glossary

COMPONENT VIDEO

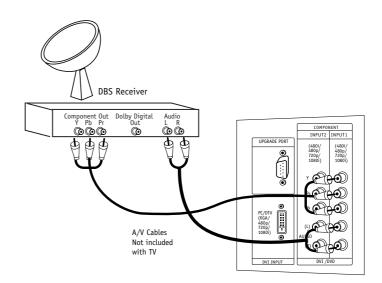
Some video equipment uses three separate lines (Y, PB, PR) to more precisely reproduce images. Your video equipment manual will explain how this relates to your equipment.

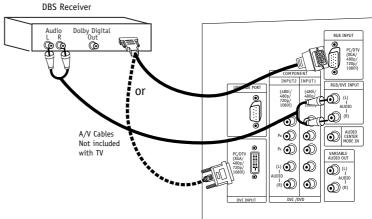
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## **RGB-DTV/DVI-DTV Input**

Find the audio and Y, PB, PR/RGB/DVI jacks on the back of your DBS receiver and connect them following the instructions provided with your equipment.

Connect these cables to your TV as shown.





 $\stackrel{\circ}{\smile}$ 

2

The DTV shows the sharpest picture in 720p mode.



This TV supports HDCP (High-bandwidth Digital Content Protection) protocol for DVI-DTV (480p, 720p, 1080i) mode.



Select RGB-DTV Source and press ENTER. Use UP/DOWN arrows to select the desired options (H-Position/ V-Position/Phase) and then use LEFT/RIGHT arrows to make appropriate adjustments.



In RGB-DTV mode, H-Position/ V-Position/Phase are not adjustable if you choose either the POP or Twin picture modes.

### RGB-DTV/DVI-DTV Input

HD-SET TOP
1920x1080i
1280x720P
720x480P

Signal	Component1	Component2	RGB/DVI-DTV
480i	Yes	Yes	No
480p	Yes	Yes	Yes
720p	Yes	Yes	Yes
1080i	Yes	Yes	Yes

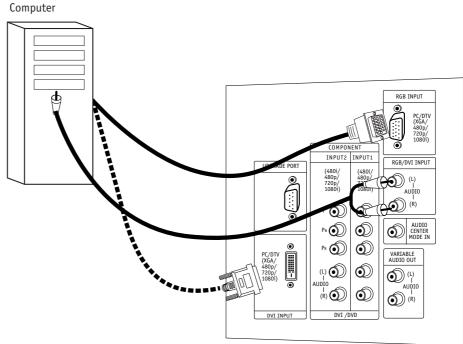
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### **RGB-PC/DVI-PC Input**

Find the audio and RGB or DVI jacks on the back of your PC and then connect them following the instructions provided with your equipment.

Connect these cables to your TV as shown.





Select RGB-PC Source and press ENTER. Use UP/DOWN arrows to select the desired options (H-Position/V-Position/H-Size/V-Size/Phase) and then use LEFT/RIGHT arrow to make appropriate adjustments.

- Horizontal position, Vertical position, Horizontal size, and Vertical size: Based on the input mode (resolution), the adjustment ranges may change.
- **PHASE:** Removes any horizontal noise and clears up or sharpens the character images. Adjustment range is  $-15 \sim +15$ .



In DVI-PC mode, adjustments are only Vertical size, and Horizontal size.



In RGB-PC/DVI-PC modes, for POP or Twin screen, H-Position/V-Position/H-Size/V-Size/Phase are not adjustable.



Synchronization input form: Signals are separate.

#### RGB-PC/DVI-PC Input

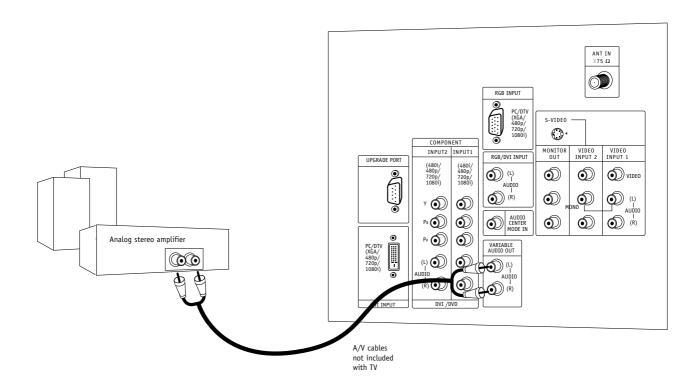
MODE	Resolution	Horizontal	Vertical
Text	640x350	31.5KHz	70Hz
VGA	640x480	31.5KHz	60Hz
	640x480	37.9KHz	72Hz
	640x480	37.5KHz	75Hz
SVGA	800x600	35.2KHz	56Hz
	800x600	37.9KHz	60Hz
	800x600	48.1KHz	72Hz
	800x600	46.9KHz	75Hz
XGA	1024x768	48.4KHz	60Hz
	1024x768	56.5KHz	70Hz
	1024x768	60.0KHz	75Hz

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## **External Stereo Connections**

Connect Left/Right Variable Audio Output to an external Audio Amplifier System.

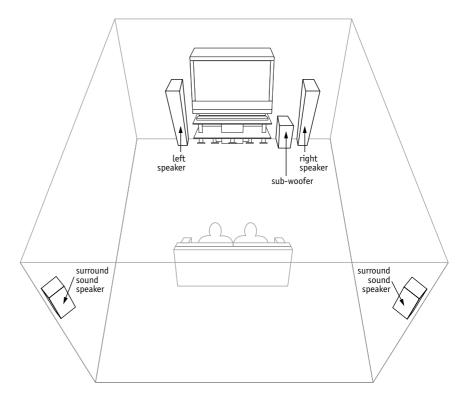
- Locate both Variable Audio Out jacks on the back of your TV and the Left/Right audio input jacks on the back of your stereo's amplifier.
- Connect these jacks, making sure that they are connected correctly. (red=Right, white=Left.)
- Adjust the sound on your stereo, according to directions provided with the amplifier.



## Home Theater: Speaker Layout

This is a typical speaker layout. Any number of other speaker setups are possible, and some changes may be needed to maximize your sound. However, a Dolby Digital Receiver is required to hear 5.1 channel audio.

Left and right speakers on each side of the TV enhance separation. The TV's sound optional hookup "center mode in," makes the dialog sound as though it's coming directly from the TV. The rear surround sound speakers provide the majority of other sounds, like those from special effects in movies. Your sub-woofer generates ultra-low frequency sound, for rumbling low-end audio.





Sound is affected by speaker placement, so make sure nothing is in front of the speakers, and that they are aimed in appropriate directions.

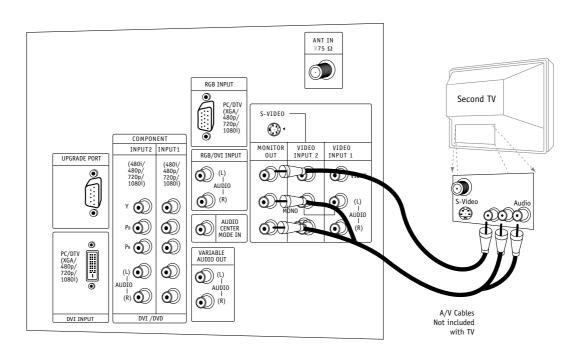


You have the option of turning the TV speakers on or off.

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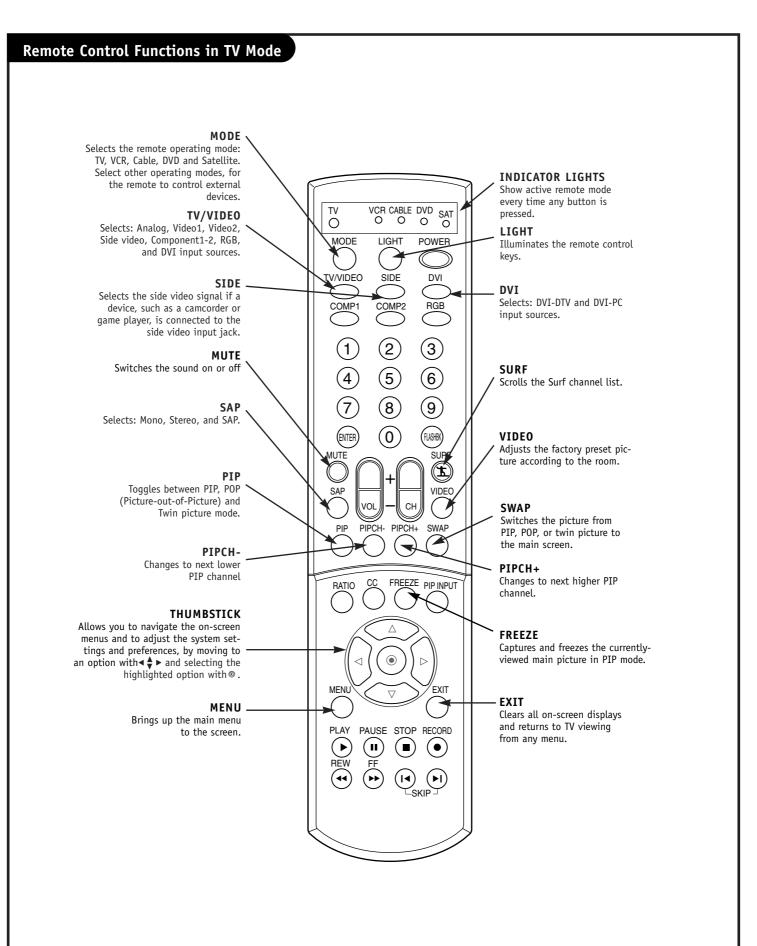
## **Monitor Out Setup**

- Your TV has a special signal output capability which allows you to hook up a second TV or monitor.
- Just connect the second TV or monitor to the MONITOR OUT Audio/Video jacks located on the back of your TV. See the Operating Manual of the second TV or monitor for further details regarding that device's input settings.

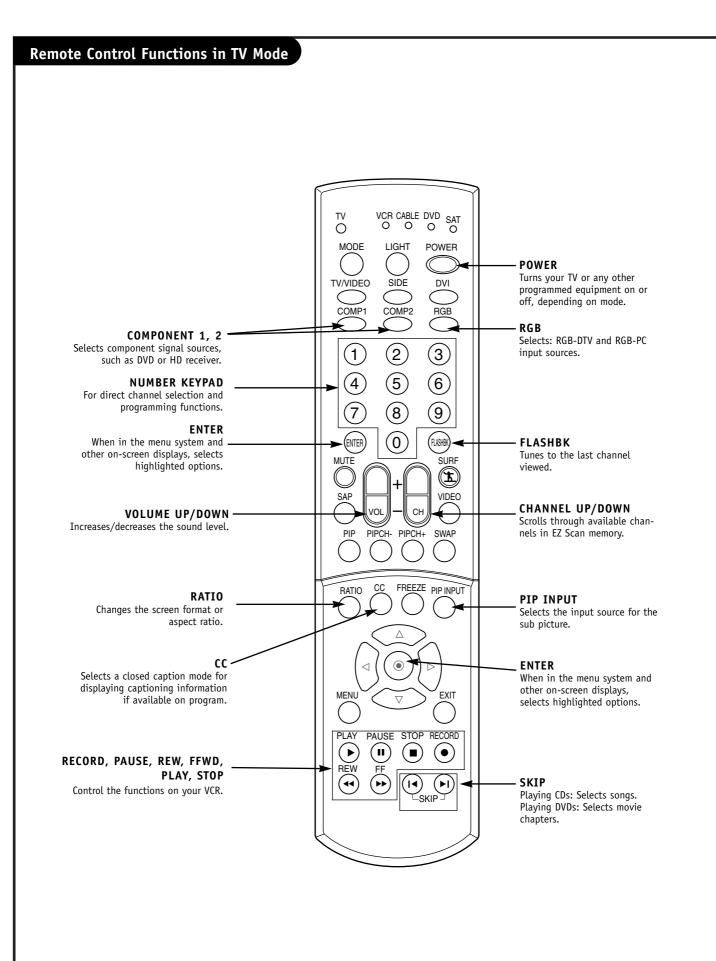


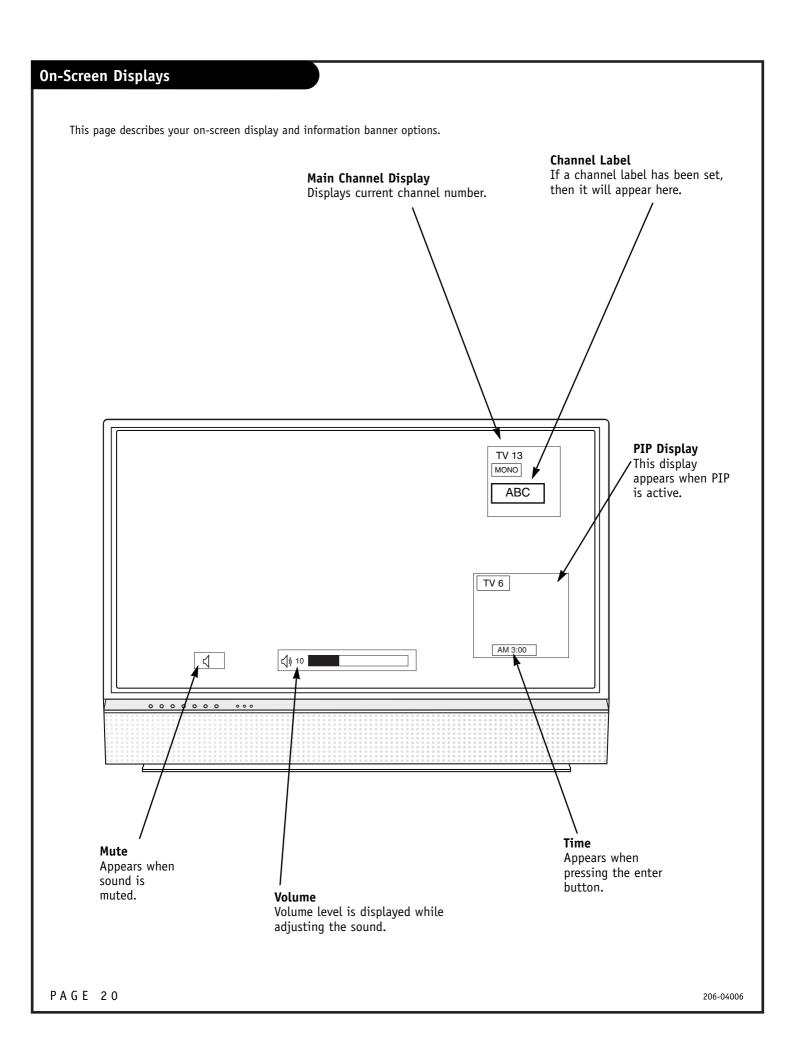


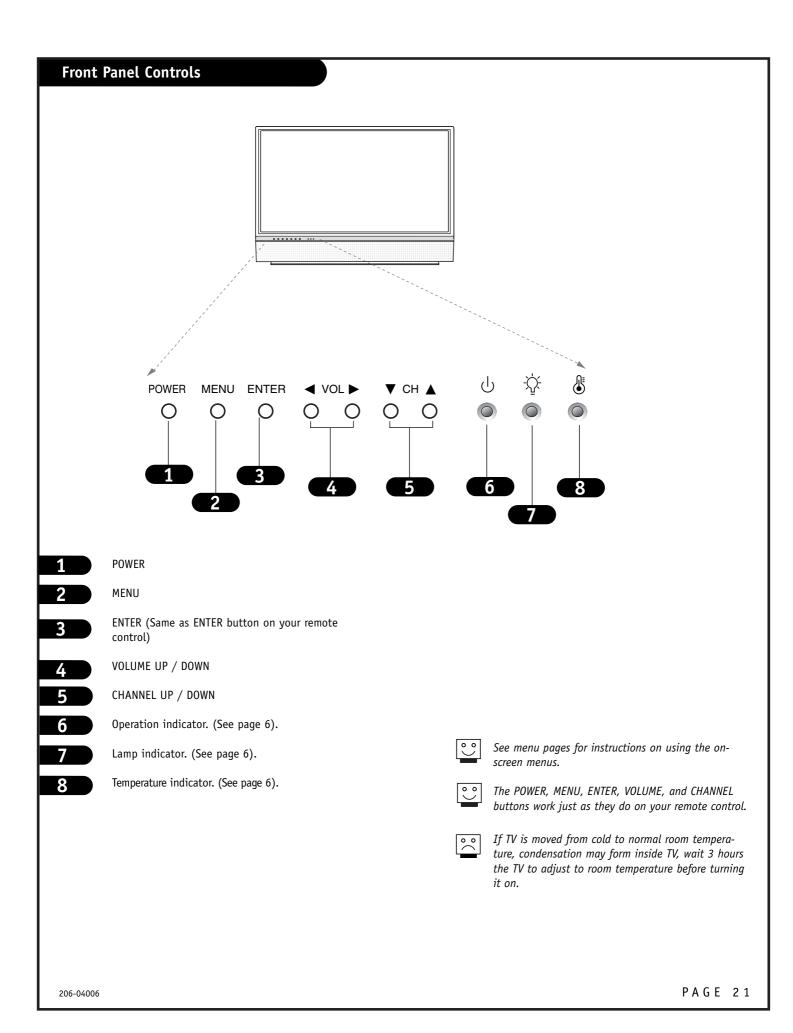
Component 1 - 2, RGB-DTV/PC, and DVI-DTV/PC input sources for main picture cannot be used for Monitor Out.



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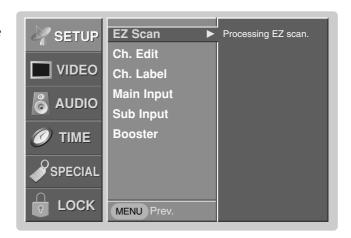






## EZ Scan (Channel Search)

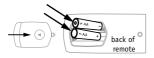
Automatically finds analog channels available through ANT IN input, and stores all active over-the-air and cable channels in memory on the channel list.



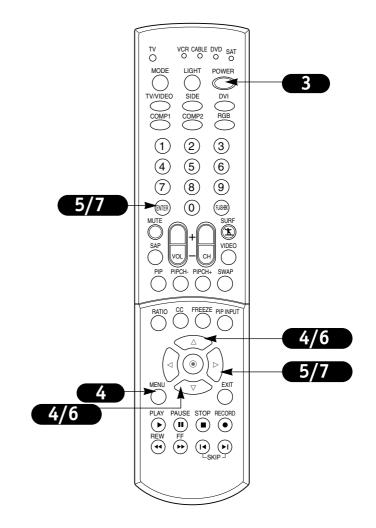
Refer to pages 7-15 to connect external equipment to your TV. If you have done so, plug in your TV to a standard (nonswitched) 120V 60Hz power outlet.



If you have done so, remove the back of the remote and install in two AA batteries. Make sure batteries are properly installed (check the +/- symbols).



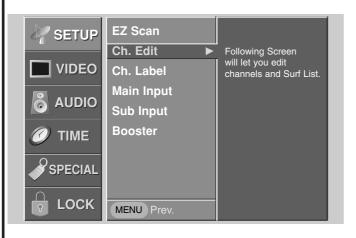
- With the remote control in hand, press the POWER button to turn your TV on.
- Press the MENU button on the remote control, then use the UP/DOWN arrow button to select the Setup menu.
- Press ENTER or the RIGHT arrow button to access the Setup menu.
- Use the UP/DOWN arrow to select EZ Scan.
- Press ENTER or the Right arrow button to start the EZ Scan channel search.

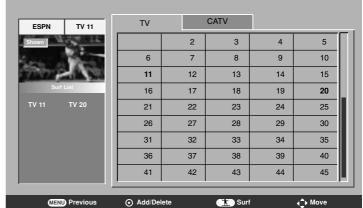


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### Channel Add / Delete / Surf Setup





Create two different types of channel lists in memory: "Custom list" and "Surf list".

A custom list can be created by toggling each channel on or off with (Enter). Once a channel is highlighted, you will be able to see whether the channel is currently added or deleted by referring to the small window at the top-left corner of the screen.

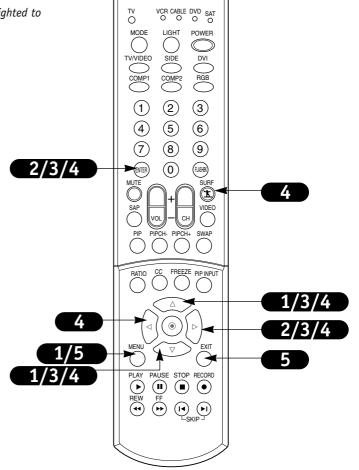
You can create your own Surf list with up to 16 channels. It appears at the bottom-left corner of the screen.

Proceeding the Surf button on the remote control when a channel is highlighted to

Press the Surf button on the remote control when a channel is highlighted to add or delete the channel in the Surf list.

- Press the MENU button on the remote control, then use the UP/DOWN arrow button to select the Setup menu.
- Press ENTER or the RIGHT arrow button to access the Setup menu.
- Use the UP/DOWN arrow to select Ch.Edit and then press ENTER or right
  - You will now see a screen filled with channel numbers and a preview picture. Use the UP/DOWN and LEFT/RIGHT arrow to select a channel, then use ENTER to Delete (remove the channel from the channel scan) or Add (include the channel in the channel scan). Press SURF to add the channel to the Surf List.

Press EXIT to save and return to TV viewing or press MENU to save and return to the previous menu.



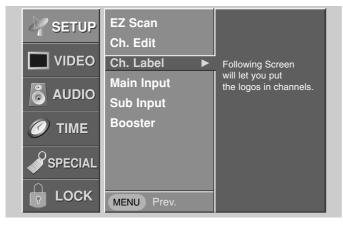
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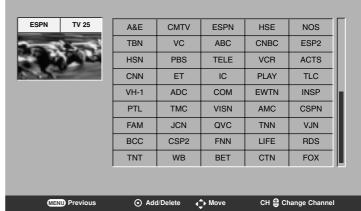
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## **Channel Labels Setup**





Choose preset labels for your channels.

Use Channel +/- on your remote control in the Ch. Label menu to select a channel for labeling, then choose a suitable label for the channel by pressing 

to attach the label to the selected channel.

Press the MENU button on the remote control, then use the UP/DOWN arrow button to select the Setup menu.

Press ENTER or the RIGHT arrow button to access the Setup menu.

Use the UP/DOWN arrow to select the Ch. Label option.

6

8

Press ENTER or the RIGHT arrow to access the Ch. Label menu.

You will now see a screen filled with Labels and a preview screen. Use channel UP/DOWN button on your remote to select the a channel to Label.

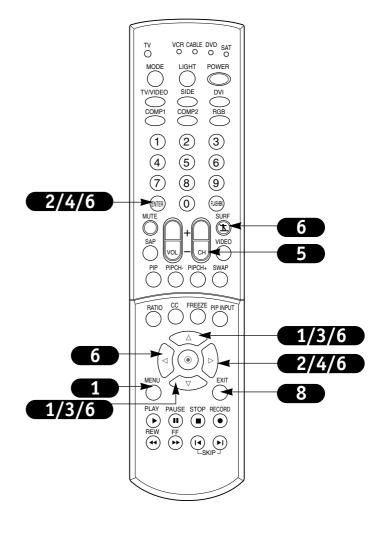
Use the UP/DOWN and LEFT/RIGHT arrow to select the appropriate label for the channel or to select a blank label section for making a channel name.

- Use the UP/DOWN/LEFT/RIGHT arrow and press ENTER to set the Label to the selected channel.
- Use the UP/DOWN/ LEFT/RIGHT arrow and press SURF to edit channel name. Eight blank channel sections are available.

Use the LEFT/RIGHT arrow to select a word position and use the UP/DOWN arrow to change the letter. Press SURF to save.

Repeat 5 and 6 steps until all channels are Labeled.

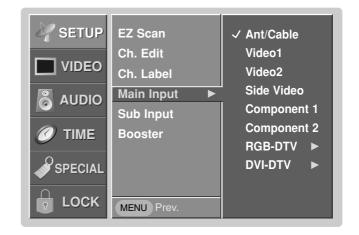
Press EXIT to save and return to TV viewing.



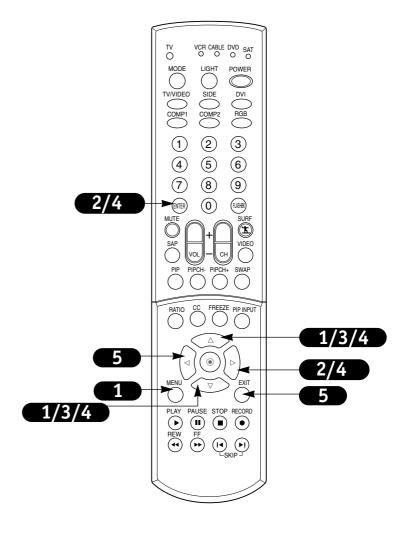
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## **Main Picture Source Selection**

Changes the picture source for the main screen so you can watch your TV, cable TV, VCR, DVD, or any other devices that are connected to your TV.



- Press the MENU button on the remote control, then use the UP/DOWN arrow button to select the Setup menu.
- Press ENTER or the RIGHT arrow button to access the Setup menu.
- Use the UP/DOWN arrow to select Main Input.
- Press ENTER or the RIGHT arrow to access the Main Input menu, then use the UP/DOWN arrow button to select a source. Your Main picture source options are: Ant/Cable, Video 1, Video 2, Side Video, Component 1, Component 2, RGB-DTV, RGB-PC, DVI-DTV, or DVI-PC.
- Press EXIT to save and return to TV viewing or press the LEFT arrow to save and return to the previous Menu.



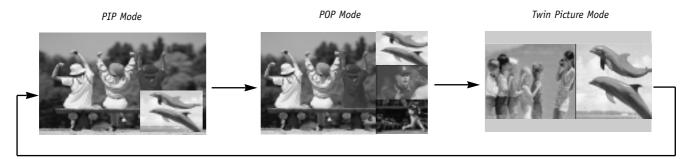
## PIP (Picture-in-Picture) / Twin Picture Operation

PIP lets you view 2 different inputs (sources) on your monitor screen at the same time. One source will be large, and the other source (PIP) will show a smaller inset image.

Twin Picture splits the screen into 2, allowing 2 pictures to be shown on the TV screen at the same time. Each source is given half the screen.

#### **Watching PIP**

Press the PIP button to show the sub picture. Each press of PIP changes the PIP options as shown below.



#### PIP / Twin Picture Source Selection

Changes the picture source for the Sub Picture image so you can watch your TV, cable TV, VCR, or any other devices that are connected to your TV.

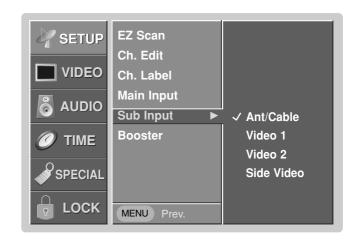
#### Using the menu

- Press the MENU button on the remote control, then use the UP/DOWN arrow button to select the Setup menu.
- Press ENTER or the RIGHT arrow button to access the Setup menu.
- Use the UP/DOWN arrows to select the Sub Input option.
- Press ENTER or the RIGHT arrow to access the Sub Input menu, then use the UP/DOWN arrow button to select the source. Your choices are: Ant/Cable, Video 1, Video 2, Side Video.
- Press EXIT to save and return to TV viewing or press the LEFT arrow to save and return to the previous Menu.

Using the PIP INPUT button on the remote control

Use the PIP INPUT button to select the input source for the sub picture.

Each time you press PIP INPUT button, you toggle between Ant/Cable, Video 1, Video 2, and Side Video.



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Do not display a fixed image on the screen for long periods of time. Doing so may cause image burn-in.



Not all sources are available for PIP.

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## PIP (Picture-in-Picture) / Twin Picture Operation

#### Selecting PIP / Twin Picture Channels

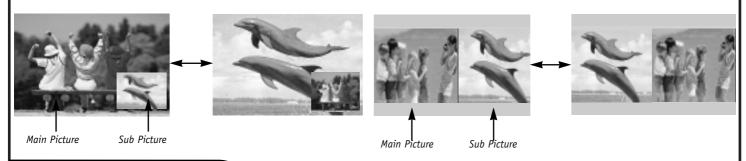
Press the PIP button on the remote control to select PIP or Twin picture mode. Select the Ant/Cable source with the PIP INPUT button.

Use the PIPCH-/PIPCH+ button to select a channel for the sub picture.

#### **Swapping Pictures**

Press the SWAP button.

Each time you press the SWAP button, you switch the Main and Sub pictures. It's available to SWAP the Main and Sub picture in Ant/Cable, video 1-2, and side video input sources for Main picture.



#### Moving the Sub Picture (PIP mode only)

In the PIP mode, each press of the UP/DOWN/LEFT/RIGHT arrow buttons will move the sub picture to a different position on the screen.

## POP (Picture-outside-Picture)

Use POP to search the pictures of all the programmed channels one-by-one on the 3 POP screen display, while the main screen remains the current channel.

Press PIP button on the remote control with the POP image on the screen to activate POP (Picture-outside-Picture) mode. The pictures of all the programmed channels are searched with the 3 POP screen, as shown to the right.

 Press SWAP, to enlarge the selected channel being searched on the POP screen to view it on the Main screen. (It's available to use this function in Ant/Cable input source for Main and Sub picture.)

Press the EXIT button to exit POP mode.



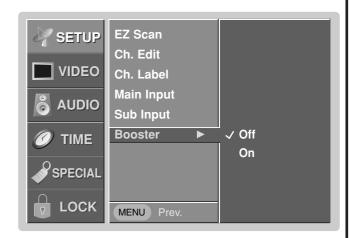
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Run EZ Scan channel search before using POP mode.

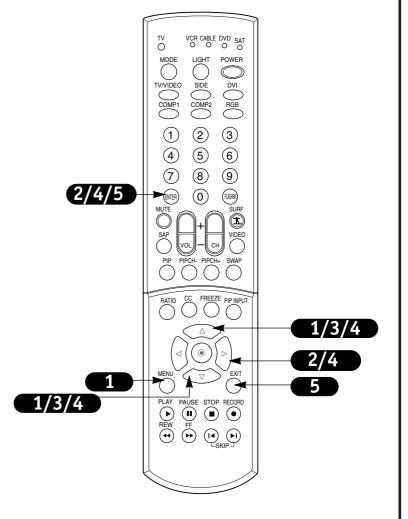
#### **Booster**

If TV signal reception is poor because you are in a fringe area, set Booster to On. If the picture condition is good, set Booster to Off.

Adjustments for one channel don't affect the adjustment for other channels. Set booster to on or off for each channel separately.



- Press the MENU button on the remote control, then use the UP/DOWN arrow button to select the Setup menu.
- Press ENTER or the RIGHT arrow button to access the Setup menu.
- Use the UP/DOWN arrow to select Booster.
- Press ENTER or the RIGHT arrow to access the Booster menu, then use the UP/DOWN arrow button to select 0n or Off.
- Press EXIT to save and return to TV viewing or press the ENTER arrow to save and return to the previous Menu.



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## Video Menu Options

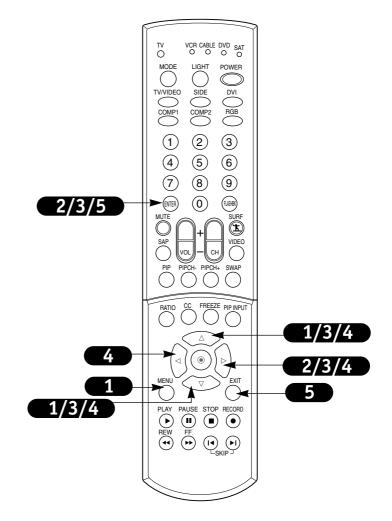
Adjust the picture appearance to suit your preference and viewing situations.



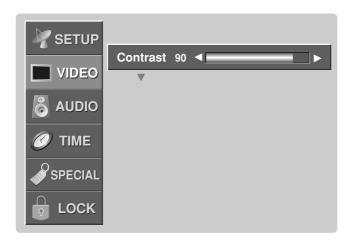
You can manually adjust the levels for the picture quality settings, such as Contrast, Brightness, Color, etc.

You can also select a preset value from the EZ Picture menu based on the category of the program.

- Press the MENU button on the remote control, then use the UP/DOWN arrow button to select the Video menu.
- Press ENTER or the RIGHT arrow button to access the Video menu.
- Use the UP/DOWN arrows to select one of the following options: EZ Picture (Off, Daylight, Normal, Night Time, Movie, Video Game, or Sports), Contrast, Brightness, Color, Sharpness, Tint, Color Temperature (Warm, Medium, Cool), and IIP. Then press ENTER or the Right arrow button.
- Use the LEFT/RIGHT arrows to adjust the option to your preference (Contrast, Brightness, Color, Sharpness, Tint).
  Use the UP/DOWN arrows to set the option to your preference (EZ Picture, Color Temperature, IIP).
- Press EXIT to save and return to TV viewing or press the ENTER button to save and return to the previous menu.



### **Video Menu Options**



• EZ Picture Lets you choose a preset value for the picture settings.

Off Lets you adjust the picture manually to your preferences.

Daylight Increases the levels of all picture settings to fit daylight conditions.

Normal Restores the picture levels to their original settings.

Night Time Increases the levels of all picture settings to fit daylight conditions.

Movie Adjusts Video settings to enhance Movie viewing. Contrast and Sharpness levels are lowered so that the

picture looks warm and soft.

Video Game Sets the picture settings to the levels that are more suitable to enjoy games. Color, Contrast, and Sharpness levels are lowered to reduce the amount of glare.

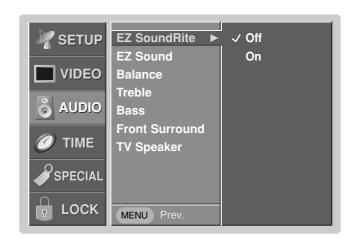
Sports Sets the picture settings to the levels that are more suitable to view sporting events. Contrast and Color levels are raised so that an action scene appears clear and brilliant.

- Contrast Adjusts the difference between the light and dark levels of the picture. Press the right arrow button to activate adjusting.
- **Brightness** Adjusts the white or light level of the overall picture.
- Color Adjusts the intensity of all colors.
- Sharpness Adjusts the level of crispness in the edges between the light and dark areas of the picture. The lower the level, the softer the image.
- Tint Adjusts the balance between the red and green levels.
- Color Temperature Adjusts levels of all colors in the TV picture: Warm, Medium, or Cool.
- IIP Improves picture outline in dark areas.

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## **Audio Menu Options**

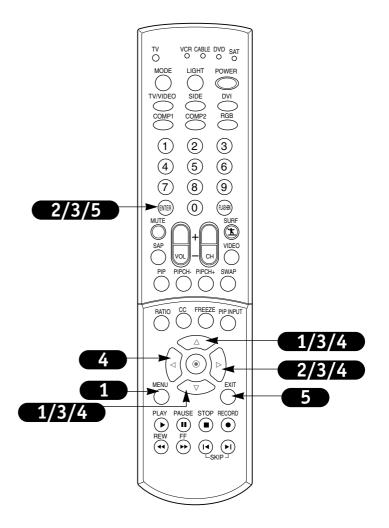
Adjust the sound to suit your taste and room situations.



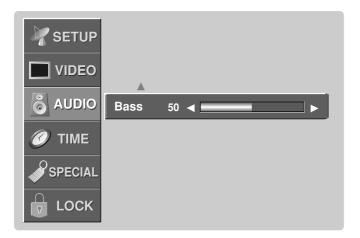
- Press the MENU button on the remote control, then use the UP/DOWN arrow button to select the Audio menu.
- Press ENTER or the RIGHT arrow button to access the Audio menu.
- Use the UP/DOWN arrows to select one of the following options: EZ SoundRite, EZ Sound, Balance, Treble, Bass, Front Surround, or TV Speaker. Then press ENTER or the RIGHT arrow button.
- Use the LEFT/RIGHT arrows to adjust the option to your preference (Balance, Treble, Bass).

Use the UP/DOWN arrows to select the option (EZ SoundRite, EZ Sound, Front Surround, or TV Speaker).

Press EXIT to save and return to TV viewing or press the ENTER button to save and return to the previous menu.



## **Audio Menu Options**



- **EZ SoundRite** Scans for changes in the sound level during commercials, then adjusts the sound to match the current audio level of the TV program you are watching.
- **EZ Sound** Chooses the sound options manually.

Off Lets you adjust the Audio menu sound options manually.

**Normal** Restores the sound levels to their original settings.

Stadium Stresses high frequency sounds and front surround sound to create the sensation you would experience in a stadium.

News Increases high frequency sounds to emphasize the human voice.

Music Increases both high and low frequency sounds to stress the sounds of musical instruments. Theater Stresses both high and low frequency sounds, in addition to the front surround sound, to create the sensation you would experience in a theater.

- Balance Adjusts the left to right balance of the TV speakers.
- Treble Increases or decreases the higher frequency sounds from the TV speakers. Increases in treble, for example, make voice or string sounds stand out.
- Bass Increases or decreases the lower frequency sounds from the TV speakers.
- Front Surround Increases the front surround sound to create more open and expanded sound.
- TV Speaker Allows you to toggle the TV internal speakers On, Center, or Off. If you want to use your external hi-fi stereo system, turn off the internal TV speakers. However, you may use the internal TV speakers as a center speaker to create a surround effect.

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## **Auto Clock Setup**

Sets the time automatically from the PBS broadcast signal.

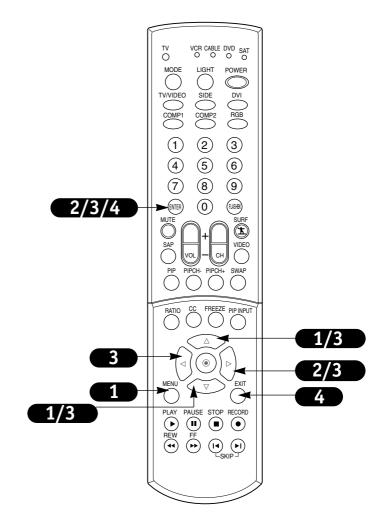
The PBS channel signal includes information for the correct time.



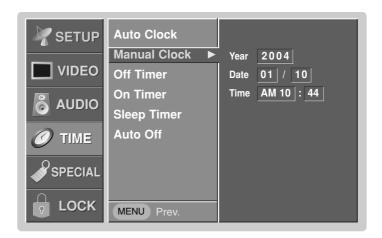
- Press the MENU button on the remote control, then use the UP/DOWN arrow button to select the Time menu.
- Press ENTER or the RIGHT arrow button to activate the Time menu.
- Use the UP/DOWN arrow button to choose Auto Clock, then press ENTER or the RIGHT arrow button to activate the Auto Clock option. Use the LEFT/RIGHT arrow button to make your auto clock selection.
  - Use the UP/DOWN arrow button to set the PBS channel.
  - Time Zone Lets you select the time zone for your viewing area.
  - Daylight Savings Lets you set
     Daylight Savings Auto, On or Off,
     depending on whether or not your
     viewing area observes Daylight
     Savings.
  - Auto Clock If you select Auto Clock, use the UP/DOWN arrow button to choose On or Off.

Press EXIT to save and return to TV viewing or press the ENTER button to save and return to the previous menu.

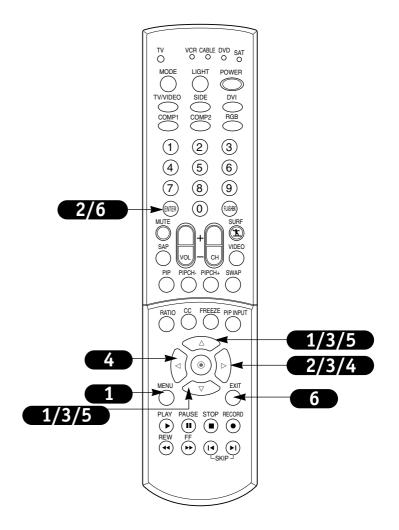
4



## Manual Clock Setup



- Press the MENU button on the remote control, then use the UP/DOWN arrow button to select the Time menu.
- Press ENTER or the RIGHT arrow button to activate the Time menu.
- Use the UP/DOWN arrow button to choose Manual Clock, then press the RIGHT arrow to activate the Manual Clock menu.
- Use the LEFT/RIGHT arrow button to make your Manual Clock selection. Your choices are: Year, Date and Time.
- Use the UP/DOWN arrow to set the Year, Date, and Time.
- Press EXIT to save and return to TV viewing or press the ENTER button to save and return to the previous menu.

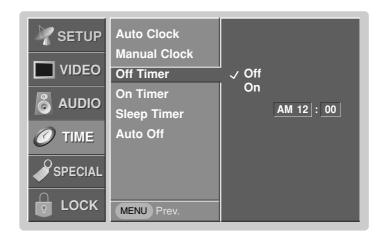


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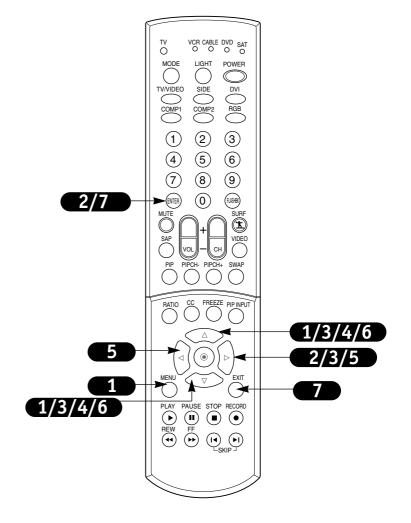
## TV Turn Off Time Setup

Lets you set an automatic daily turn off time for your TV.

Off Timer function overrides On Time function if they are both set to the same time.



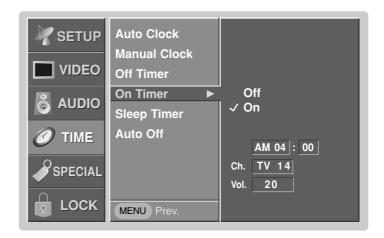
- Press the MENU button on the remote control, then use the UP/DOWN arrow button to select the Time menu.
- Press ENTER or the RIGHT arrow button to activate the Time menu.
- Use the UP/DOWN arrow to choose Off Time then press the RIGHT arrow to activate Off Timer.
- Use the UP/DOWN arrow to choose On.
- Use the RIGHT arrow to select each Off Timer option.
- Use the UP/DOWN arrow to set the hours and then set the minutes.
- Press EXIT to save and return to TV viewing, or press the ENTER button to save and return to the previous menu.
  - To cancel Off Timer function, use the UP/DOWN arrow button to select Off in step 4.



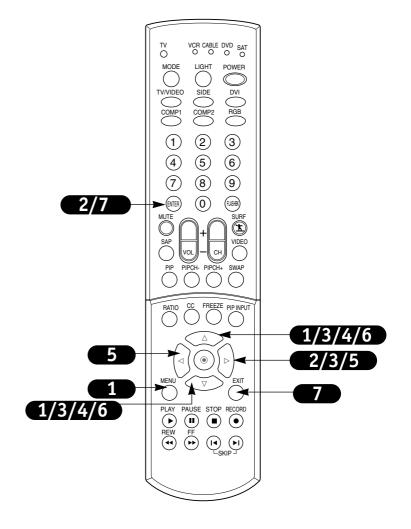
## TV Turn On Time Setup

Time function operates only if current time is set.

Unless a button is pressed within two hours after the TV is turned on by the On timer function, the TV will automatically turn itself off.



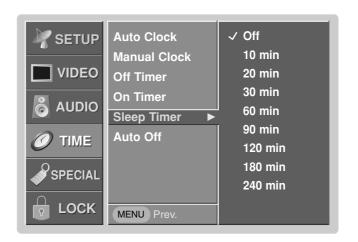
- Press the MENU button on the remote control, then use the UP/DOWN arrow button to select the Time menu.
- Press ENTER or the RIGHT arrow to activate the Time menu.
- Use the UP/DOWN arrow to choose On Time, then press the RIGHT arrow to activate the On Timer menu.
- Use the UP/DOWN arrow to choose On.
- Use the RIGHT arrow to select in turn the On Timer menu options: Time, Channel, and Volume.
- Use the UP/DOWN arrow to set Time, Channel, and Volume at turn on.
- Press EXIT to save and return to TV viewing, or press the ENTER button to save and return to the previous menu.
  - To cancel On Timer function, use the UP/DOWN arrow button to select Off in step 4.



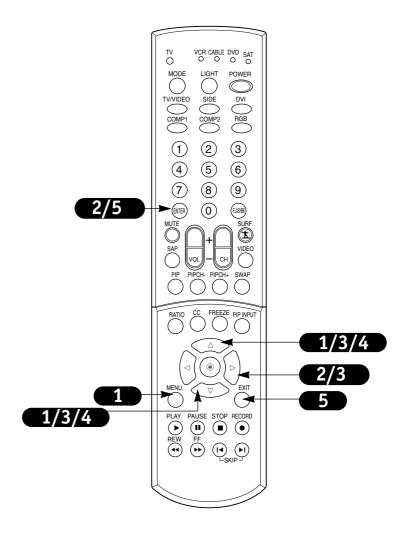
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### **Sleep Timer Setup**

Select a preset time to turn your TV off automatically.



- Press the MENU button on the remote control, then use the UP/DOWN arrow button to select the Time menu.
- Press ENTER or the RIGHT arrow button to activate the Time menu.
- Use the UP/DOWN arrow to choose Sleep Timer then press the RIGHT arrow to access the Sleep Timer menu.
- Use the UP/DOWN arrow to choose a preset turn off time.
- Press EXIT to save and return to TV viewing, or press the ENTER button to save and return to the previous menu.
  - If you turn the TV off after setting sleep timer, the setting will be erased. Set it again if necessary.

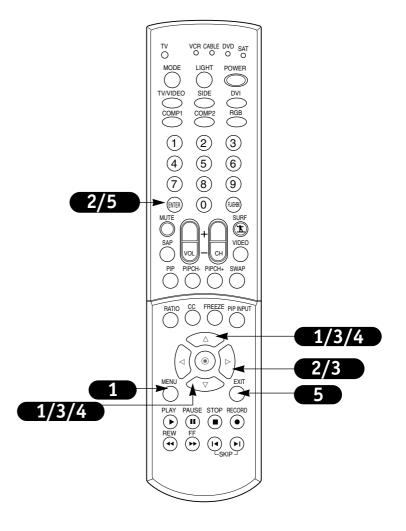


# **Auto Off**

If there is no input signal, the TV can be set up to switch to standby mode automatically after 10 minutes.



- Press the MENU button on the remote control, then use the UP/DOWN arrow button to select the Time menu.
- Press the RIGHT arrow button to activate the Time menu.
- Use the UP/DOWN arrow button to choose Auto Off then press the RIGHT arrow button to access the Auto Off menu.
- Use the UP/DOWN arrow to choose On or Off.
- Press EXIT button to save and return to TV viewing, or press the MENU button to save and return to the previous menu.



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### **Aspect Ratio**

- Press the MENU button on the remote control, then use the UP/DOWN arrow button to select the Special menu. Or press RATIO button to instantly access the Aspect Ratio .
- Press ENTER or the RIGHT arrow button to activate the Special menu.
- Use the UP/DOWN arrows to choose Aspect Ratio.
- Press ENTER or the RIGHT arrow button to move into the Aspect Ratio selection menu. Use the UP/DOWN arrow buttons to select the right ratio for your viewing environment:
  - 4:3 Choose when you want to view a picture with an original 4:3 aspect ratio, with black bars appearing at both the left and right sides.
  - 16:9 Choose when you want to adjust the picture horizontally, in a linear proportion to fill the entire screen. (Useful for viewing 4:3 formatted DVDs.)
  - Horizon Choose when you want to adjust the picture in a non-linear proportion. The picture is more enlarged at both sides, to create a spectacular view.
  - Zoom1 Choose when you want to view the picture without any alteration. However, the top and bottom portions of the picture will be cropped.
  - Zoom2 Choose when you want the picture to be altered, both vertically extended and vertically cropped. The picture taking a halfway trade off between alteration and screen coverage.

Press EXIT to save and return to TV viewing or press the ENTER button to save and return to the previous menu.

For RGB-PC source, you can select either 4:3 or 16:9 aspect ratios.

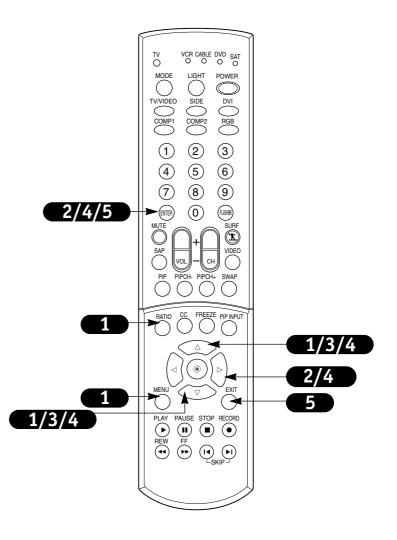
For RGB-DTV (720p, 1080i) or Component 1-2 (720p, 1080i) sources,, you can select either 4:3, 16:9 or Zoom1-2 aspect ratios.

Aspect ratio is changed to 16:9 automatically for 720p or 1080i formats from component input1/2, RGB, or DVI sources.

After connecting external equipment to the TV, don't display a still picture for a long time on the screen. Doing so may damage the TV screen.



Lets you choose the way that an analog picture with a 4:3 aspect ratio is displayed on your TV 16:9 aspect ratio TV screen. When you receive an analog picture with a 4:3 aspect ratio on your 16:9 TV, you need to specify how the picture is to be displayed according to your preference.

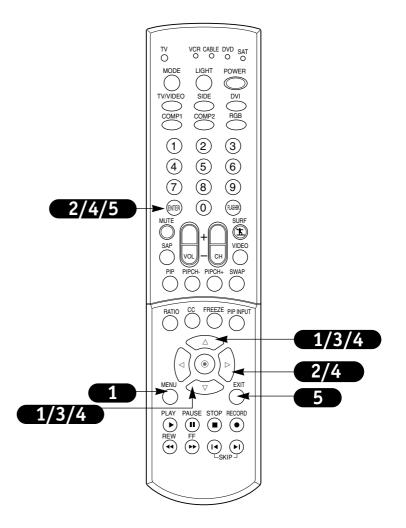


### **On-Screen Menu Languages**

Select your preferred language for the menus: English, Spanish, or French.



- Press the MENU button on the remote control, then use the UP/DOWN arrow button to select the Special menu.
- Press ENTER or the RIGHT arrow button to activate the Special menu.
- Use the UP/DOWN arrow to choose Language.
- Press ENTER or the RIGHT arrow button to move into the Language selection menu. Use the UP/DOWN arrow button to select the language you wish to use for your on-screen menus.
- Press EXIT to save and return to TV viewing or press the ENTER button to save and return to the previous menu.



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# **Captions Setup**



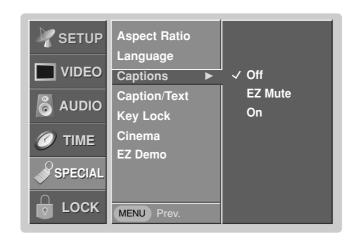
- Press the MENU button on the remote control, then use the UP/DOWN arrow button to select the Special menu.
- Press ENTER or the RIGHT arrow button to activate the Special menu.
- Use the UP/DOWN arrow to choose Captions, then press ENTER or the Right arrow button.
- Use the UP/DOWN arrow to make your caption selection. Your choices are: Off, EZ Mute, and On.
- Press EXIT to save and return to TV viewing or press the ENTER button to save and return to the previous menu.

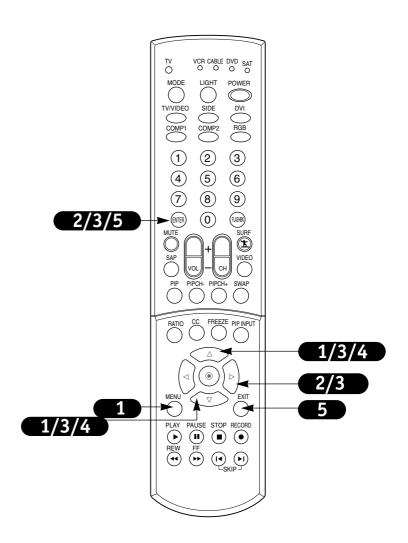
Using the CC button

1 Use the CC button on the remote control to select captions.

Each press of the CC button changes the caption option; Off, EZ Mute, and On. Captions Setup is complete.
EZ Mute shows the selected captions option (if available on program) when the TV sound is muted.

Press EXIT to save and return to TV viewing.



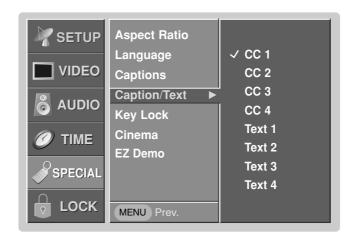


## Caption/Text Mode Selection

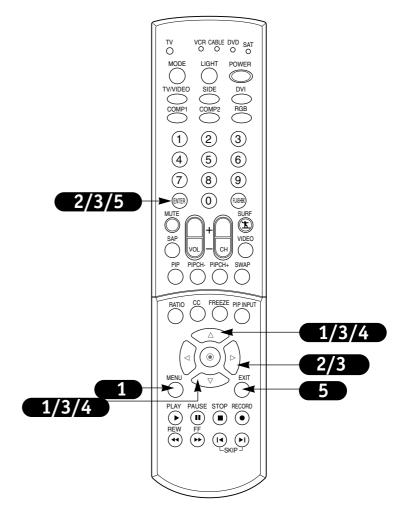
Select a closed caption mode for displaying captioning information when provided on the program.

Captions displays information at any position on the screen usually the program's dialog.

Text displays information, usually at the bottom position and is used for a data service, generally not program related.



- Press the MENU button on the remote control, then use the UP/DOWN arrow button to select the Special menu.
- Press ENTER or the RIGHT arrow button to activate the Special menu.
- Use the UP/DOWN arrow to choose Caption/Text, then press ENTER or the Right arrow button.
- Use the UP/DOWN arrow to make your caption selection. Your options are: CC 1, CC 2, CC 3, CC 4, Text 1, Text 2, Text 3, and Text 4.
- Press EXIT to save and return to TV viewing or press the ENTER button to save and return to the previous menu.



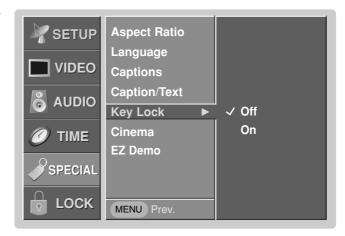
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# **Key Lock**

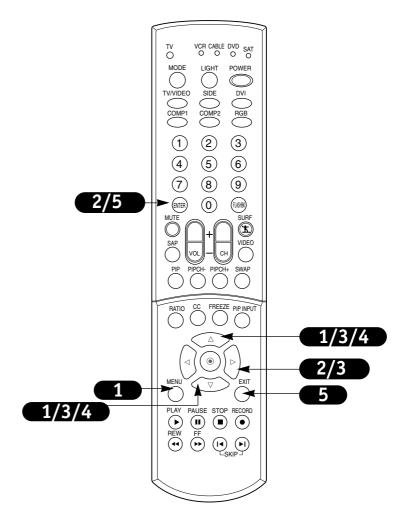
The TV can be set up so that it can only be used with the remote control.

The feature can be used to prevent unauthorized viewing by disabling the front panel controls.

The TV is programmed to remember which option it was last set to even if you turn the TV off.

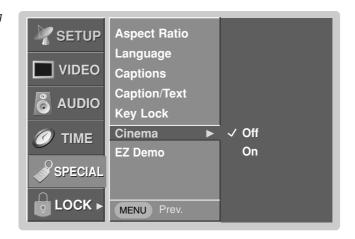


- Press the MENU button on the remote control, then use the UP/DOWN arrow button to select the Special menu.
- Press ENTER or the RIGHT arrow button to activate the Special menu.
- Use the UP/DOWN arrow to choose Key Lock, then press ENTER or the Right arrow button.
- Use the UP/DOWN arrow to choose On or Off.
- Press EXIT to save and return to TV viewing or press the ENTER button to save and return to the previous menu.

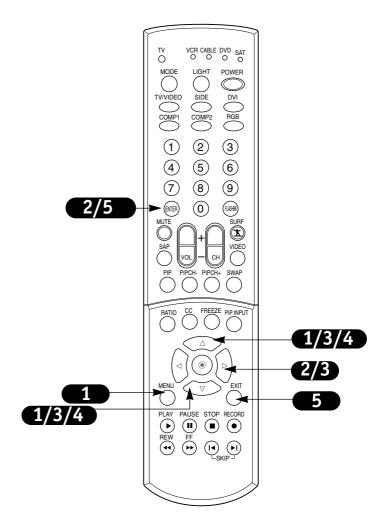


### Cinema Mode Setup

Set up the TV for the best picture appearance for viewing movies.



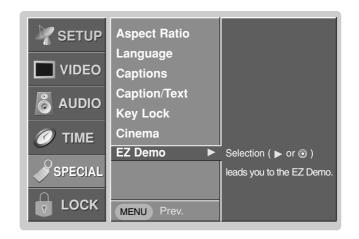
- Press the MENU button on the remote control, then use the UP/DOWN arrow button to select the Special menu.
- Press ENTER or the RIGHT arrow button to activate the Special menu.
- Use the UP/DOWN arrow to choose Cinema, then press ENTER or the Right arrow button.
- Use the UP/DOWN arrow to choose On or Off.
- Press EXIT to save and return to TV viewing or press the ENTER button to save and return to the previous menu.



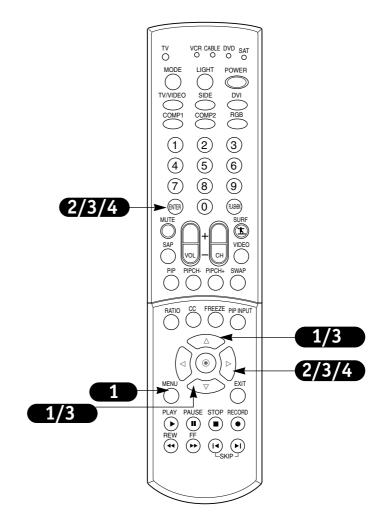
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### **EZ Demo**

**EZ Demo** Use to scan the features and menu options available on your TV.



- Press the MENU button on the remote control, then use the UP/DOWN arrow button to select the Special menu.
- Press ENTER or the RIGHT arrow to activate the Special menu.
- Use the UP/DOWN arrow to select EZ Demo.
- Press ENTER or the RIGHT arrow button to start the EZ Demo.



### Parental Lock Setup

3

Lets you set up blocking schemes to block specific channels, ratings and external sources.

A password is required to gain access to this menu if the Lock System is active.

Press the MENU button on the remote control, then use the UP/DOWN arrow button to select the Lock Menu.

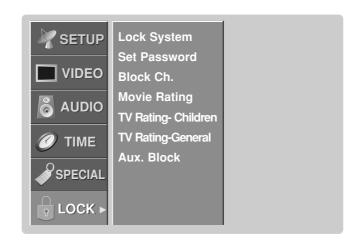
Press ENTER or the RIGHT arrow button to access the Lock Menu. The TV is set up with the initial password 0000.

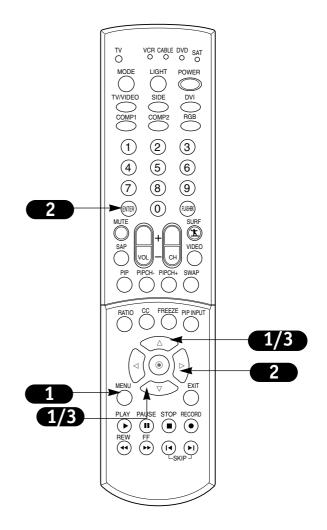
Use the UP/DOWN arrow to choose from the following Lock Menu options.

- Lock System: Activates or disables the blocking scheme you set up previously.
- Set Password: Changes the password by keying in a new password twice.
- Movie Rating: Blocks movies according to the movie ratings limit, so children cannot view certain movies. You can set the ratings limit by blocking out all the movies with the ratings above a specified level. Keep in mind that the movie ratings limit only applies to movie shown on TV, not TV programs, such as soap operas.
- TV Rating-Children: Keeps children from watching certain TV programs among only the programs intended for children, according to the ratings limit. This rating does not apply to other TV programs. Unless you block certain TV programs intended for mature audiences in the TV Rating - General menu, your children may view those programs.
- TV Rating-General: Blocks certain TV programs that you and your family do not want to watch, based on the ratings.
- Block Ch.: Blocks any channels that you do not want to watch or that you do not want your children to watch.
- Aux. Block: Enables you to select a source for blocking among the source devices you have hooked up.

 $^{\circ}$ 

If you forget your password, enter the number, 7777 to release the lock mode.

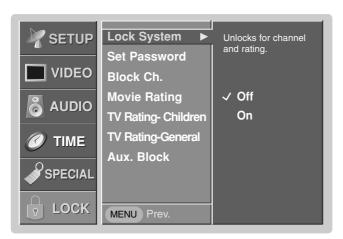




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### Parental Lock (Ratings Overview)

### **Parental Lock Rating Descriptions**



TV-Y7 (Children 7 Years & Older): Program is designed for children age 7 and above.

TV-G (General Audience): Most parents would find this program suitable for all ages.

TV-PG (Parental Guidance Suggested): Program contains material that parents may find unsuitable for younger children.

**TV-14** (Parents Strongly Cautioned): Program contains some material that many parents would find unsuitable for children under 14 years of age.

**TV-MA** (Mature Audiences Only): Program is specifically designed to be viewed by adults and therefore may be unsuitable for children under 17.

**G** (General Audiences): All ages can view.

**PG** (Parental Guidance Suggested): Some program content may not be suitable for children.

PG-13 (Parents strongly cautioned): Some program content may not be appropriate for children under 13.

R (Restricted): Children under 17 requires parent or adult guardian be present.

NC-17: No one 17 or younger should view.

TV-Y (All Children): Program is determined to be appropriate for all children.

X: Adult only.

Blocking Off: Permits all programs.

### **Programming the Remote**

The remote control for your HD receiver is a multi-brand or universal remote control that can be programmed to operate most remote-controllable devices of other manufacturers.

Note: The remote control may not be able to control all models of other brands.

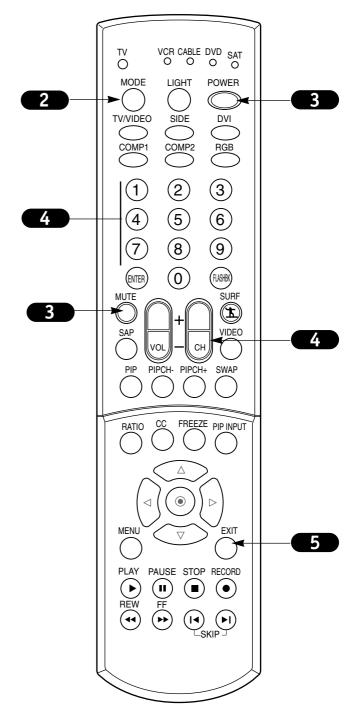
Test your remote control.

To find out whether your remote control can operate the device without programming, turn on the device such as a the VCR and press the corresponding mode button (VCR) on the remote control while pointing at the device. Test the **POWER** and **CH** +/- buttons to see if the device responds properly. If not, the remote requires programming to operate the device.

- Turn on the device to be programmed. Then press the corresponding mode button on the remote control.
- Press the POWER button and the MUTE button simultaneously. Now the remote control is ready to program the code for the corresponding device.
- There are two ways to find the right code for the device.
  - A. If you press the **CH** +/- buttons repeatedly, the codes will change one at a time. Press the POWER button after each code change. If the right code is found, the device will turn off.
  - B. Enter a code number using the number buttons on the remote. The right code numbers for the corresponding component can be found on the following pages.

Again, if the code is correct, the device will turn off.

- Press the EXIT button to store the program.
- Test the remote control functions to see if the device responds properly. If not, repeat from step 2.



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# **Programming Codes: TVs**

# TVs

112 143 072 081 161 006 146 073 167	GOLDSTAR	004 102 106		019 024 040	Sharp	004 014 019
006 146		440 440 440				
		110 112 113		056 130 132		022 028 029
073 167		116 119 122		134		081 143 170
		127 137 143	NIKEI	043		175
052	HALL MARK	004 116	ONKING	043	SIEMENS	088
043 054 056	HITACHI	004 006 009	ONWA	043	SIGNATURE	072
080 104 108		010 011 012	OPTONICA	019 081	SONY	041 070 079
112 115 118		023 041 075	PANASONIC	034 056 080		085 126 139
121 131		143 158 163		092 164		147 185
004 006 058		166	PHILCO	003 004 006	SOUNDESIGN	003 004 028
112	INFINITY	164		024 043 056		043 116
					SPECTRICON	112
	1					004 043
						002
	OCI ZIVIVI		PHTLTPS			003 004 006
			THILLI 5		SILVANIA	044 059 060
						063 064 116
	JENSEN					
			DIONEED			127 140 160
	JVC		LIONEEK		TANDV	164
	KEC					081
						056 062
						034 080 084
			PROSCAN			004
					TEKNIKA	002 003 004
	KTV		PROTON			006 024 028
043 143		154		131 143 171		031 043 072
004 006 101	LG	255		173		077 101 103
116 143	LODGENET	072	QUASAR	034 056 092		143
043	LOGIK	072	RADIO SHACK	019 043 047	TELEFUNKEN	037 046 086
004 016 017	LUXMAN	004		116 127 143		087
043 044 055	LXI	007 015 052	RCA	004 006 023	TELERENT	072
071 076 103		081 160 164		024 056 065	TERA	172
107 111 114		166		074 144 152	TMK	004 116
117 120 123	MAGNAVOX	003 004 006		156 160 161	TOSHIBA	007 015 030
125 127 128		022 059 060		165		040 051 062
			REALISTIC			101 138
004 116 143		127 143 160		047	TOTEVISION	143
			ROCTEC			008 009
	MARANTZ					146
						174
			5/11110			004 116
	TENOREX		SAMSLING			004 110
	MET7		SAMSONG		WARDS	
						019 028 060
	HUA					061 063 064
			CANVO			072 074 116
	MINERYA		SANTU		VAMALIA	143 164
						004 006
	WIIZORIZHI					004 116
			SCOTT			043
					ZENITH	001 072 073
009 034 056		146	SEARS	004 007 015		095 103 157
073 074 091	MTC	004 006 062		028 030 057	ZONDA	112
116 130 144		101		082 094 101		
155 160 161	NAD	015 025		116 143 160		
165	NEC	006 007 016				
	121 131 004 006 058 112 088 002 003 004 006 058 043 002 003 004 006 043 101 103 143 004 039 043 050 051 143 043 054 043 143 004 006 101 116 143 043 004 016 017 043 044 055 071 076 103 107 111 114 117 120 123 125 127 128 136 143 004 116 143 043 062 024 077 143 062 024 077 143 062 024 077 143 062 024 077 143 064 073 074 075 078 075 078 076 078 075 078 077 078 077 078 077 078 077 078 077 078 077 078 077 078 077 078 077 078 077 078 077 078 077 078 077 078 077 079 079 079 079 079 079 079 079 079 079	121 131 004 006 058 112	121 131	121 131 004 006 058 112 INFINITY 164 008 INKEL 129 002 003 004 JBL 164 006 JCPENNY 004 006 008 058 009 024 030 043 005 101 143 100 143 100 143 JVC 034 038 070 043 008 145 004 006 043 101 JENSEN 013 103 143 JVC 034 038 070 043 083 145 004 005 016 KEC 043 039 043 050 KENWOOD 051 KLOSS 002 059 ROSCAN 143 KMC 143 KMC 143 043 054 KTV 006 043 143 154 004 006 101 LG 255 116 143 LOGGENET 072 043 043 044 055 D71 1076 103 107 111 114 117 120 123 136 143 004 016 1617 107 117 110 117 120 123 136 143 004 005 006 MAGNAVOX 003 004 006 024 077 143 043 044 055 062 MARANTZ 060 077 164 078 078 164 079 079 164 079 079 164 079 079 164 079 079 164 079 079 167 079 079 MINERVA 079 088 079 074 091 079 077 076 078 077 077 078 078 077 116 SAMSUNG 079 116 124 079 015 025 077 076 107 077 077 078 078 077 116 SAMSUNG 079 077 077 079 077 077 077 079 MINERVA 078 078 078 079 116 079 077 077 079 077 077 077 079 077 077 077 079 077 077 077 079 077	121 131	121   131

# **Programming Codes: VCRs**

# VCRs

Brand	Codes	Brand	Codes	Brand	Codes	Brands	Codes
AIWA	034		055 060 130		034 040 041	TOTEVISION	040 101
AKAI	016 043 046		150 152		062 063 107	UNITECH	040
	124 125 146	KENWOOD	014 034 039		109 140 144	VECTOR RESEARCH	012
AMPRO	072		043 047 048		145 147	VICTOR	048
ANAM	031 033 103	LG	255	REALISTIC	003 008 010	VIDEO CONCEPTS	012 034 046
AUDIO DYNAMICS	012 023 039	LLOYD	034		014 031 033	VIDEOSONIC	040
	043	LXI	003 009 013		034 040 053	WARDS	003 013 017
BROKSONIC	035 037 129		014 017 034		054 101		024 031 033
CANON	028 031 033		101 106	RICO	058		034 040 053
CAPEHART	108	MAGIN	040	RUNCO	148		054 131
CRAIG	003 040 135	MAGNAVOX	031 033 034	SALORA	014	YAMAHA	012 034 039
CURTIS MATHES	031 033 041		041 067 068	SAMSUNG	032 040 102		043
DAEW00	005 007 010	MARANTZ	012 031 033		104 105 107	ZENITH	001 034 048
	064 065 108		067 069		109 112 113		056 058 072
	110 111 112	MARTA	101		115 120 122		080 101
	116 117 119	MATSUI	027 030		125		
DAYTRON	108	MEI	031 033	SANSUI	022 043 048		
DBX	012 023 039	MEMOREX	003 010 014		135		
	043		031 033 034	SANYO	003 007 010		
DYNATECH	034 053		053 072 101		014 102 134		
ELECTROHOME	059		102 134 139	SCOTT	017 037 112		
EMERSON	006 017 025	MGA	045 046 059		129 131		
	027 029 031	MINOLTA	013 020	SEARS	003 008 009		
	034 035 036	MITSUBISHI	013 020 045		010 013 014		
	037 046 101		046 049 051		017 020 031		
	129 131 138		059 061 151		042 073 081		
	153	MTC	034 040		101		
FISHER	003 008 009	MULTITECH	024 034	SHARP	031 054 149		
	010	NEC	012 023 039	SHINTOM	024		
FUNAI	034		043 048	SONY	003 009 031		
GE	031 033 063	NORDMENDE	043		052 056 057		
	072 107 109	OPTONICA	053 054		058 076 077		
	144 147	PANASONIC	066 070 074		078 149		
GO VIDEO	132 136		083 133 140	SOUNDESIGN	034		
GOLDSTAR	012 013 020		145	STS	013		
	101 106 114	PENTAX	013 020 031	SYLVANIA	031 033 034		
	123		033 063		059 067		
HARMAN KARDON	012 045	PHILCO	031 034 067	SYMPHONIC	034		
HITACHI	004 018 026	PHILIPS	031 033 034	TANDY	010 034		
	034 043 063		054 067 071	TATUNG	039 043		
	137 150		101	TEAC	034 039 043		
INSTANTREPLAY	031 033	PILOT	101	TECHNICS	031 033 070		
JCL	031 033	PIONEER	013 021 048	TEKNIKA	019 031 033		
JCPENNY	012 013 015	PORTLAND	108		034 101		
	033 040 066	PULSAR	072	THOMAS	034		
	101	QUARTZ	011 014	тмк	006		
JENSEN	043	QUASAR	033 066 075	TOSHIBA	008 013 042		
JVC	012 031 033		145		047 059 082		
	043 048 050	RCA	013 020 033	1	112 131	I	

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# **Programming Codes: SAT/DVDs**

### SAT

Brand	Codes	Brand	Codes	Brand	Codes	Brand	Codes
ALPHASTAR DSR	123		027 133 134	PERSONAL CABLE	117	VIEWSTAR	115
AMPLICA	050	GENERAL INSTRUMENT	003 004 016	PHILIPS	071	WINEGARD	128 146
BIRDVIEW	051 126 129		029 031 059	PICO	105	ZENITH	001 081 082
BSR	053		101	PRESIDENT	019 102		083 084 091
CAPETRONICS	053	HITACHI	139 140	PRIMESTAR	030 110 111		120
CHANNEL MASTER	013 014 015	HOUSTON TRACKER	033 037 039	PROSAT	072		
	018 036 055		051 057 104	RCA	066 106		
CHAPARRAL	008 009 012	HUGHES	068	REALISTIC	043 074		
	077	HYTEK	053	SAMSUNG	123		
CITOH	054	JANIEL	060 147	SATELLITE SERVICE CO	028 035 047		
CURTIS MATHES	050 145	JERROLD	061		057 085		
DRAKE	005 006 007	KATHREIN	108	SCIENTIFIC ATLANTA	032 138		
	010 011 052	LEGEND	057	SONY	103		
	112 116 141	LG	255	STARCAST	041		
DX ANTENNA	024 046 056	LUTRON	132	SUPER GUIDE	020 124 125		
	076	LUXOR	062 144	TEECOM	023 026 075		
ECHOSTAR	038 040 057	MACOM	010 059 063		087 088 090		
	058 093 094		064 065		107 130 137		
	095 096 097	MEMOREX	057	TOSHIBA	002 127		
	098 099 100	NEXTWAVE	028 124 125	UNIDEN	016 025 042		
	122	NORSAT	069 070		043 044 045		
ELECTRO HOME	089	PACE SKY SATELLITE	143		048 049 078		
EUROPLUS	114	PANASONIC	060 142		079 080 086		
FUJITSU	017 021 022	PANSAT	121		101 135 136		

### DVD

Brand	Codes	Brand	Codes	Brand	Codes	Brand	Codes
APEX DIGITAL	022		025	PHILIPS	013	THOMPSON	005 006
DENON	020 014	MAGNAVOX	013	PIONEER	004 026	TOSHIBA	019 008
GE	005 006	MARANTZ	024	PROCEED	021	YAMAHA	009 018
GOLDSTAR	010 016 025	MITSUBISHI	002	PROSCAN	005 006	ZENITH	010 016 025
HARMAN KARDON	027	NAD	023	RCA	005 006		
JVC	012	ONKYO	008 017	SAMSUNG	011 015		
LG	001 010 016	PANASONIC	003 009	SONY	007		

# **Programming Codes: Cable Boxes**

# CATV

ABC	003 004 039 042 046 052						
	042 046 052	i e e e e e e e e e e e e e e e e e e e	008 009 010	REGAL	049 050		032 035
t .	042 040 052		052 069 074	REGENCY	057	VIEWSTAR	012 015 018
	053	LG	255	REMBRANT	025		086 087 088
ANTRONIK	014	M-NET	037	RK	091		089
ARCHER	005 007 014	MACOM	033	SAMSUNG	030 068	ZENITH	001 060 093
	024	MAGNAVOX	010 012 064	SCIENTIFIC ATLANTA	003 011 041		
CABLE STAR	026		079		042 043 045		
CENTURION	092	MEMOREX	001		046		
CENTURY	007	MOVIE TIME	028 032	SHERITECH	022		
CITIZEN	007	NSC	015 028 038	SIGNAL	030		
COLOUR VOICE	065 090		071 073	SIGNATURE	052		
COMBANO	080 081	OAK	016 031 037	SL MARX	030		
COMTRONICS	019 030		053	SPRUCER	047 078		
DIAMOND	023	PANASONIC	044 047	STARCOM	002 004 008		
EAGLE	020 030 040	PARAGON	001		009		
EASTERN	057 062 066	PHILIPS	006 012 013	STARGATE	008 030		
ELECTRICORD	032		020 065 085	SYLVANIA	067		
GE	072		090	TADIRAN	030		
GEMINI	008 022 025	PIONEER	034 051 052	TANDY	017		
	054		063 076	TEXSCAN	029 067		
GI	052 074	POST NEWS WEEK	016	TOCOM	039 040 056		
GOLDEN CHANNEL	030	PRUCER	059	TOSHIBA	001		
HAMLIN	049 050 055	PTS	011 048 071	UNIKA	007 014 024		
HITACHI	052 055		072 073 074	UNITED CABLE	004 053		
HOSPITALITY	070 077	PULSAR	001	UNIVERSAL	005 007 014		
JERROLD	002 003 004	RCA	047		024 026 027		

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### Maintenance

Early malfunctions can be prevented. Please read pages 2-3-4 in the front of the manual and follow the recommendations provided. Careful and regular cleaning of your new TV can enhance its appearance and your viewing pleasure. Be sure to turn the power off and pull out the plug before you begin any cleaning.

#### **SCREEN CLEANING**

- 1. Here's a great way to keep the dust off your screen for a while. Wet a soft cloth in a mixture of lukewarm water and a little fabric softener or dish washing detergent. Wring the cloth until it's almost dry, and then use it to wipe the screen
- 2. Make sure the excess water is off the screen, and then let it air-dry before you turn on your TV.

#### **CABINET CLEANING**

- 1. Use a soft cloth with a mild soap solution to wipe the cabinet.
- 2. Rinse the cloth and wipe the cabinet again.
- 3. Let the cabinet air-dry before turning the TV on.

#### **WOOD CABINETS**

Use a quality wood cleaner and polish. This will protect the TV from dirt and dust, as well as keep the cabinet looking new.

#### **EXTENDED ABSENCE**



If you intend to leave your TV dormant for a long time (such as a vacation), it's a good idea to unplug the power cord to protect against possible damage from lightning or power surges. If you use an off-air antenna, you may also want to disconnect it from the back of your TV before leaving.

### PICTURE INTERFERENCE

Even though you may be getting cable service, the signal may be weak, which means the quality of your picture may suffer due to other factors. If there are problems with the image on your TV, consult the Troubleshooting guide on the following pages. You may also want to contact your cable service provider to determine if the problem is from the cable service.

#### VIDEO GAMES AND OTHER FIXED-PATTERN DISPLAYS

If you use your TV to play video games or for other uses that have single, fixed images, such as a photo-CD player, you should avoid setting the Brightness level too high. If static images, like network identification patterns, are left on the screen for too long, they can leave a permanent impression on the TV screen. You can reduce the chance of this happening by limiting the amount of time you use the fixed-image display, and by reducing the contrast and brightness levels.



If you unplug your TV from a wall power outlet, you may have to reset the clock using the Time menu described earlier.

SYMPTOMS	POSSIBLE SOLUTIONS
Snowy picture and unclear sound.	<ul> <li>Check your antenna connection or location.</li> <li>Check your cable input.</li> <li>Check to see if the TV/VCR button on your VCR has the TV selected.</li> </ul>
Multiple images or 'ghost shadows.'	<ul><li>Check your antenna direction and/or location.</li><li>Check your cable input.</li></ul>
	Make sure the cable from your antenna to your TV is
	properly connected.
Interference: Sharp lines across	The following may cause image problems or distortion:
the screen and unclear sound.	Electrical appliances, powerful lights, cars, trucks; computers or portable phones; medical equipment
	<ul> <li>If possible increase the distance between your TV and the offending appliance</li> </ul>
	Or shut one of them off.
Normal picture but no sound.	• Check sound level.
·	Make sure the TV sound is not muted.
	<ul> <li>Try another channel. The problem may be the broadcast, not your TV.</li> <li>Are the Audio cables properly installed?</li> </ul>
	Are the wires for external speakers (if you have external speakers)
	properly installed?
	• Make sure your speakers are turned on in the Audio menu.
	• If your audio mode is set to SAP, that channel may not have an SAP program.
No picture and unclear sound.	Are you in TV or cable tuning mode, and should be in the other?
	<ul> <li>Make sure output channels on all A/V equipment are on the same channel (3 or 4</li> <li>Check that all connections are tight.</li> </ul>
No picture and no sound.	• Is the AC power cord plugged in?
- F	• Check that your AC power outlet works. (Test it by plugging in something
	else or try another outlet.)  • Make sure your brightness and audio controls are set properly.
	<ul> <li>Make sure your brightness and audio controls are set property.</li> <li>Try another channel. The problem may be with the broadcast.</li> </ul>

when the display asks you to enter the secret code.

in the Captions/Text menu.

Picture has a big black box

on it, but the sound is O.K.

Picture has two horizontal

black bars, one on top and

one on bottom.

Missing Secret code

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MORE of the program when you see those bars.

• The Caption option may be in Text mode. Select Caption 1, or OFF

• Your program is in letterbox. This means that the shape of your TV is a

square, but the program is a rectangle. Think of the bars as empty space the

program doesn't fill; not picture that's blocked out. Because this format is a

• If you forget the secret code, press the remote control Button '7', '7', '7' and '7'

direct representation of film as you see it in the movies, you are actually seeing

# Troubleshooting (Contd.)

Remote control doesn't work.	• Make sure the batteries are fresh and installed properly.				
Menu options can't be changed or selected.	Try unplugging your TV for a few minutes, then plug it back in.				
No picture or sound when any non-cable source is selected.	<ul> <li>Check to see if the source equipment has been turned on.</li> <li>Make sure that the connections are secure on the back of your TV and on the source equipment.</li> </ul>				
Weak or no Stereo Sound when using a stereo VCR.	<ul> <li>Check to see if all the connections are secure.</li> <li>Look in the Audio mode menu to see if all the settings are correct.</li> <li>You are using channel 3 or 4 to view your VCR. No stereo sound is present under that decision.</li> </ul>				
The PIP inset is black or lacks contrast.	<ul> <li>Check to be sure that the PIP source is turned on.</li> <li>You might want to adjust the PIP picture settings under the PIP menu.</li> <li>Check that all the wires are connected properly.</li> <li>Check to see if your input source for PIP is set correctly.</li> </ul>				
The PIP inset is "snow" when the source is Antenna.	• Look to see if the TV/VCR button on your VCR has the TV selected or change the PIP to another source.				
Time is incorrect.	• Reset clock manually.				

### **Glossary**

A list of definitions for some of the words found in this guide as they relate to these TVs.

**75 OHM RF CABLE** The round cable that comes from an off-air antenna or cable service provider. Each end looks like a hex

shaped nut with a wire sticking through the middle, and it screws onto the threaded jack on the back

of your TV.

A/V CABLES Audio/Video cables. Three cables - Right audio (red), Left audio (white), and Video (yellow). A/V

cables are used for stereo playback of videocassettes and for higher quality picture and sound from

other A/V devices.

A/V DEVICE Any device that produces video or sound (VCR, DVD, cable box, satellite receiver, set-top box, or televi-

sion).

ADD (SHOW) This function lets you add new channels to the channel list in memory that you'll scroll through when

using your remote.

**AMPLIFIER** An external device that amplifies sound from a television, CD player, VCR, DVD or other A/V device.

ANALOG TV Traditional method of representing a television signal as a replica (analog) of the original picture and

sound.

ANTENNA The physical receiver of television signals sent over the air. A large metal piece of equipment does not

always have to be visible for your home to be using an antenna.

**ASPECT RATIO** The ratio of the horizontal dimension to the vertical dimension of a picture. Standard television in the

U.S. today is generally transmitted and displayed in a 4:3 aspect ratio. High-Definition television will

normally be formatted in the wider 16:9 aspect ratio.

AUDIO CENTER MODE IN Input jack provided for connecting external Dolby digital preamplifier output to the TV, to use as the

center speaker channel and enhance your home theater setup.

**CAPTIONS** A form of subtitling that writes out the dialog of a program on the screen.

COMPONENT INPUT ( YPbPr ) Series of input jacks provided for extremely accurate picture reproduction yielding a higher

quality picture than standard video inputs.

**DELETE (HIDE)** Removes channels that you don't watch from the channel list in memory.

**DIGITAL TV** A new method of representing a television signal as a series of binary numbers (1's and 0's). This

method allows for the signal to be manipulated to eliminate redundancy to dramatically increase pic-

ture and sound quality.

**DOLBY DIGITAL**Dolby Digital Cinema Sound is made possible by a new digital coding technique called Dolby AC-3.

Dolby AC-3 produces high-quality, 5.1 channel surround sound which is six discrete separate channels for a full range of sound. Each channel can carry a different signal simultaneously (front center, front

left, front right, surround left, surround right and subwoofer).

**DVD** Optical disc storage technology. Digital video disc player. A disc that contains movies etc. in digital

format.

**DVI INPUT** Digital video interface. Video multimedia standard for computer text and graphics.

**DTV** Digital television source, (set-top box).

DTV FORMATS

480I Standard DTV format.

**480p** Enhanced DTV format. (Progressive Scan). **720p/1080i** (HDTV) High definition video formats.

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### Glossary (Contd.)

A list of definitions for some of the words found in this guide as they relate to these TVs.

**HD-STB** High-definition set-top box.

**INPUT** Refers to the jack that receives a signal into the TV, VCR or other

A/V device.

JACK A connection on the back of a TV, VCR, or any other A/V device. This includes the RF jacks and the

Audio/Video jacks that are color-coded.

MODE The mode determines the type of device (TV, VCR, Cable, Aux) that the remote is controlling; remote

operating mode.

MONO SOUND Mono (monaural) sound is one channel of sound. On more than one speaker, all the speakers play the

same audio.

**OUTPUT** Refers to the jack that sends a signal out of a VCR, DVD, or other A/V device.

PC A computer.

PIP This is the most common way to refer to the Picture-in-Picture (PIP) feature.

PIP SNAPSHOT Press FREEZE button to capture and freeze sub picture in PIP or split mode. Press PIP button to enter

PIP mode from another channel. Press EXIT button to remove PIP from the screen.

POP (PICTURE-OUTSIDE-PICTURE) Additional PIP-type viewing feature.

**RGB INPUT** Red, green, blue. 15-pin input provided for computers or set-top boxes.

**SECOND AUDIO** Second Audio Programming (SAP) is another, separate, audio channel available with some program-

ming. Choosing SAP often refers to listening to audio in another language, such as Spanish or French.

PROGRAMMING/SAP

**SIGNAL** Picture and sound traveling through cable, or on the air, to your television screen.

**SOURCE** The term for the equipment that provides audio and video information to your TV. Antennas, VCRs, DVD

players, and Cable Boxes are examples of sources.

**STEREO SOUND** Stereo (stereophonic) sound refers to audio that's divided into right and left sides.

**SURF** This function creates a customized list of your favorite channels. You can access this group of channels

with the surf button on the remote by pressing Surf repeatedly.

S-VIDEO (Y-C) connection available for S-Video devices providing better picture quality than standard video

inputs.

**TEXT** Arbitrary text not related to the program.

**TUNER** Any device that picks up broadcast signals and turns them into

picture and sound.

**TWIN PICTURE** Feature that splits the screen and places two picture sources side-by-side.

**XGA** A high-resolution computer data format compatible with these TVs.

# **Product Specifications**

Models						
E44W46LCD, E44W48LCD	Horizontal Size (Inches) Height (Inches) Depth (Inches) Weight (lbs.)	39.2 29.2 14.4 50.7				
M52W56LCD	Horizontal Size (Inches) Height (Inches) Depth (Inches) Weight (lbs.)	47.5 33.8 15.7 66.1				
Power Requirement	AC 120V, 60Hz					
Television System	American TV Standard, NTSC, ATSC with STB					
Television Channels	VHF: 2 - 13 UHF: 14 - 69 CATV: 1 - 125					
Power Consumption (W)	220W					
Antenna	75 ohm External Terminal f	or VHF/UHF				
Audio Output (W)	12W x 2					
Supplied Accessories	Remote control, 2 size AA I	batteries, 2 filters.				
External Input/Output Ports	A/V input (3 set) A/V output (1 set) S-Video input (2) Component input (2 set) RGB input (1) DVI input (1) RGB/DVI audio input (1 set) Variable audio output (1 set) Audio center mode input (1 Upgrade port (1)	rt)				



Design and specifications are subject to change without prior notice.

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# ZENITH ELECTRONICS CORPORATION LCD Projection TV Limited Warranty - USA



Zenith will repair or replace your product, at Zenith's option, if it proves to be defective in material or work-manship under normal use, during the warranty period ("Warranty Period") listed below, effective from the date ("Date of Purchase") of original consumer purchase of the product. This warranty is good only to the original purchaser of the product and effective only when used in the United States, excluding U.S. Territories.

#### **WARRANTY PERIOD:**

LABOR: One Year from the Date of Purchase.

Parts: One Year from the Date of Purchase.

**Halogen Lamp: 90 Days** from the Date of Purchase.

\* Parts replaced are warranted for the remaining portion of the original warranty period.

### **HOW SERVICE IS HANDLED:**

**In-Home Service:** Please retain dealer's dated bill of sale or delivery ticket as evidence of the Date of Purchase for proof of warranty, and submit a copy of the bill of sale to the service person at the time warranty service is provided.

Please call 1-877-9Zenith (1-877-993-6484) to locate your nearest Zenith Authorized Service Center.

Replacement parts may be new or factory remanufactured.

THIS WARRANTY IS IN LIEU OF ANY OTHER WARRANTIES, EXPRESS OR IMPLIED, INCLUDING WITHOUT LIMITATION, ANY WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE. TO THE EXTENT ANY IMPLIED WARRANTY IS REQUIRED BY LAW, IT IS LIMITED IN DURATION TO THE EXPRESSED WARRANTY PERIOD ABOVE. ZENITH WILL NOT BE LIABLE FOR ANY INCIDENTAL, CONSEQUENTIAL, INDIRECT, SPECIAL OR PUNITIVE DAMAGES OF ANY NATURE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGES, INCLUDING WITHOUT LIMITATION, LOST REVENUES OR PROFITS, LOST OR CORRUPTED PROGRAMMING OR DATA, OR ANY OTHER DAMAGE WHETHER BASED IN CONTRACT, TORT, OR OTHERWISE. Some states do not allow the exclusion or limitation of incidental or consequential damages or limitation on how long an implied warranty lasts, so the above exclusion or limitation may not apply to you. This warranty gives you specific legal rights and you may also have other rights that may vary from state to state.

### THIS LIMITED WARRANTY DOES NOT APPLY TO:

- 1. Damages or operating problems that result from shipping, installation, adjustment of user controls, calibration, maintenance or failure to maintain, or separate system components; and
- 2. Damages or operating problems that result from normal wear and tear, misuse, abuse, operation outside environmental specifications or contrary to the requirements or precautions in the Operating Guide, accident, lightning strikes or other natural causes, unauthorized modification or alteration, incorrect electrical current or voltage, reception problem caused by inadequate home antenna or faulty antenna connections, computer software, institutional or commercial use, or other causes not arising out of defect in material or workmanship.
- 3. Therefore, the cost of repair or replacement of such a defective product shall be borne by the consumer.

### **CUSTOMER INTER-ACTIVE CENTER NUMBERS:**

For nearest Authorized Service Center, Where to buy, Product Assistance, or Customer Assistance Call 1-877-9Zenith (1-877-993-6484) (24 hours a day, 365 days per year) and select an appropriate option from the menu.

Or visit our website at http://www.zenithservice.com

LG Customer Interactive Center 201 James Record Road Huntsville, Alabama 35824 http://www.zenithservice.com

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