

# LCD Projection TV OWNER'S MANUAL

MODEL: RU-48SZ40

Please read this manual carefully before operating your set. Keep the manual with the TV for future reference. Record model number and serial number of the set. See the label attached on the back cover and relay the information to an authorized service center if you require service.

LG Electronics U.S.A., Inc.



#### 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. The responsible party for this device compliance is: LG Electronics U.S.A., Inc 1000 Sylvan Avenue, Englewood Cliffs, NJ 07632 1-201-816-2000 http://www.lgusa.com

## **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)

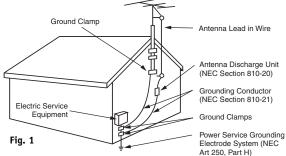
## **IMPORTANT SAFETY INSTRUCTIONS**

(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



NEC - National Electrical Code

## 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

PAGE 4

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 6-17.

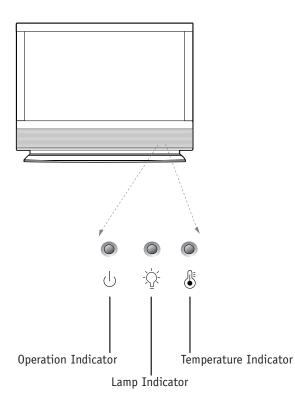
Step 2. Install batteries in remote control and do a channel search. See page 22.

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

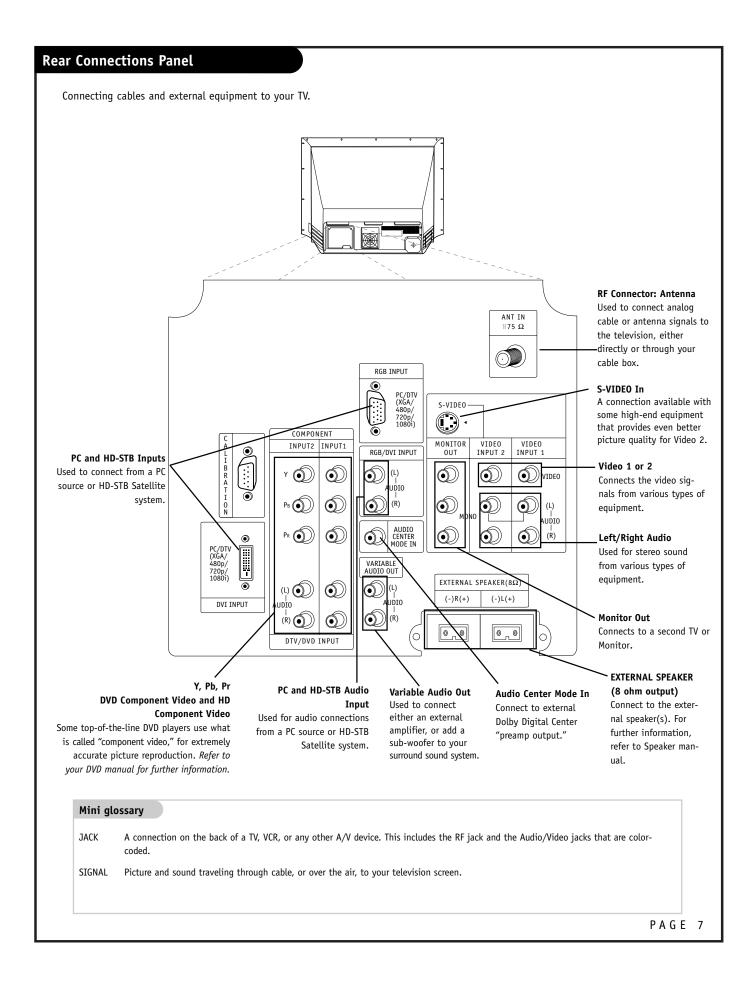
Note: Design and specifications are subject to change without prior notice.

## **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.



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standby mode.
ode.
nd of its life and needs to
or around it. Contact an
to overheating.
ck the cooling fan.



## Front Connection Panel

There are four jacks on the right front side behind the screen 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 front con- nection panel.	
To use the front jacks as the signal source, select them using Main Input menu as described on page 25. They will be named "Front Video" in the Main Input menu.	
If you select either Front Video or Front S-Video, the Front audio inputs are automatically selected as well.	
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).	Vide       Fort A/V Part         Vide       Signals from any         Dige of equipment.       Connection available on form over high-end equipment is a provides better picture is a provides better picture.
Mini glossary	
A/V CABLES Audio/Video cables. Three cable connector—Right audio (red) playback of videocassettes and for higher quality picture and s	, Left audio (white), and Video (yellow). A/V cables are used for stereo sound from other A/V devices.
A/V DEVICE Any device that produces video or sound (VCR, DVD, cable box	x, or television).
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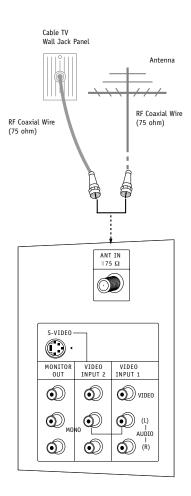
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Connect an antenna and/or cable service to your TV as shown.

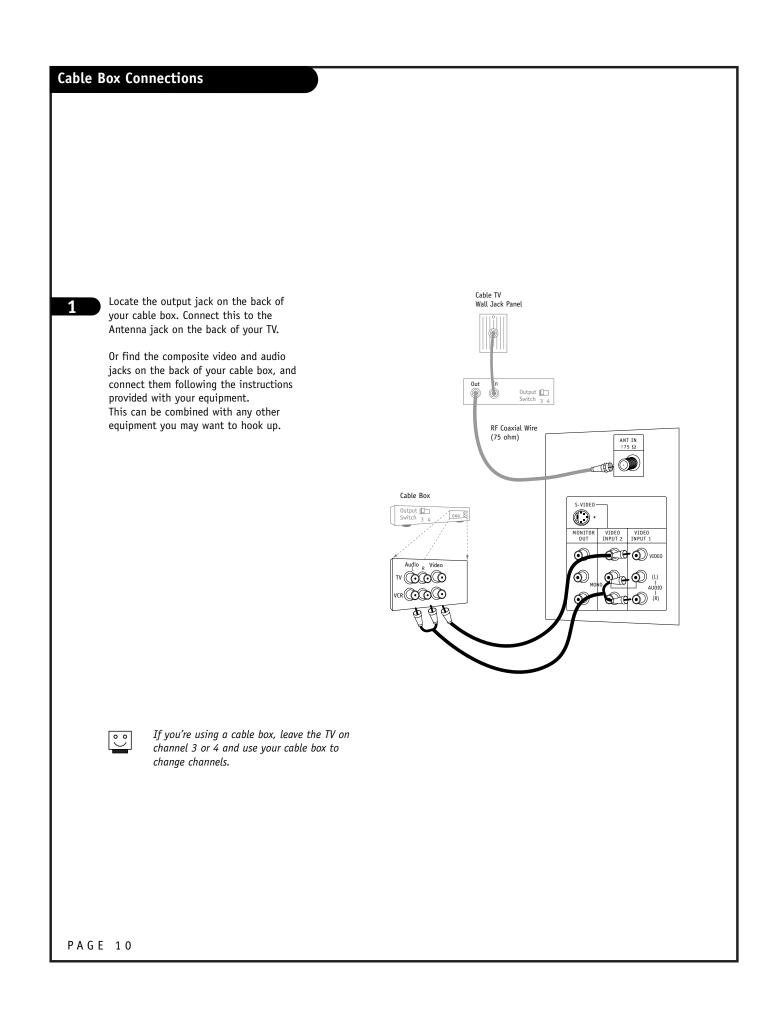
Turn to page 22 to do a channel search with EZ Scan for Ant/Cable connection(s).



If you receive your RF signal through an antenna that is several years old and connects with two small prongs, you will need to purchase a 300 to 75 ohm adapter. It should be available from your local electronics dealer.

We recommend using a 75 ohm cable for your antenna connections in order to prevent interference.

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



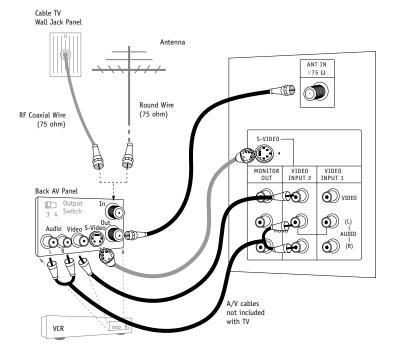
## VCR Connections

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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.

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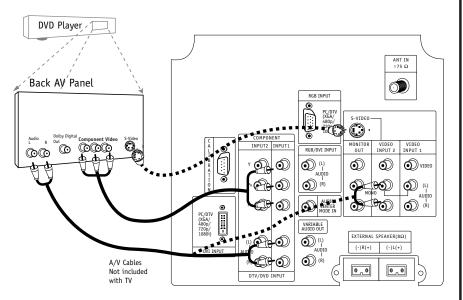
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Find the audio and component or S-Video jacks on the back of your DVD Player and connect them following the instructions provided with your equipment.

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	
19	20X10	)80i	
12	80X7	20p	
72	20X48	0p	
7	20X48	30i	

• **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 Y	Рb B-Y Cb Рв	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.

PAGE

## **RGB/DVI-HD/STB Input**



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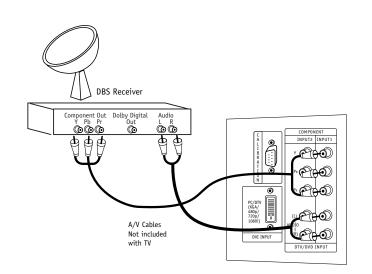
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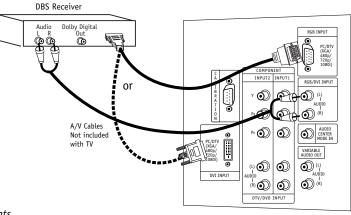
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Find the audio and Y,  $P_B$ ,  $P_R/RGB/DVI$  jacks on the back of your DBS receiver and connect them following the instructions provided with your equipment.

Connect these cables to your TV as shown.





The DTV shows the sharpest picture in 720p mode.

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

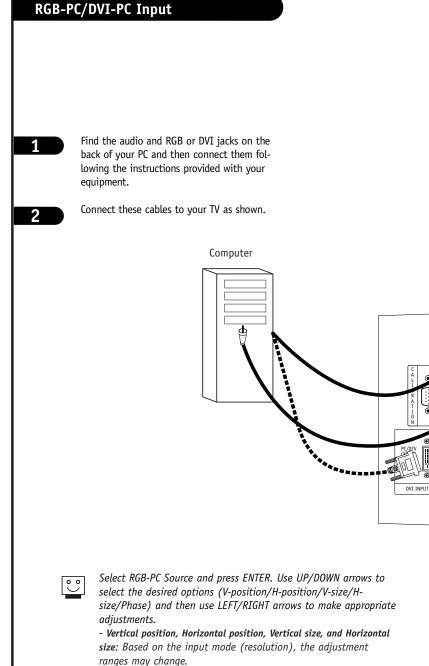
Select RGB-DTV Source and press ENTER. Use UP/DOWN arrows to select the desired options (V-position/H-position/Phase) and then use LEFT/RIGHT arrows to make appropriate adjustments.

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

#### **RGB-HD/STB** 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



- 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,

In RGB-PC/DVI-PC modes, for POP or Twin screen, V-

position/H-position/V-size/H-size/Phase are not

Synchronization input form: Signals are separate.

MODE

MODE	Resolution	Horizontal	Vertical
Text	640x350	31.5KHz	70Hz
	640x480	31.5KHz	60Hz
VGA	640x480	37.9KHz	72Hz
	640x480	37.5KHz	75Hz
	800x600	35.2KHz	56Hz
SVGA	800x600	37.9KHz	60Hz
576/1	800x600	48.1KHz	72Hz
	800x600	46.9KHz	75Hz
	1024x768	48.4KHz	60Hz
XGA	1024x768	56.5KHz	70Hz
	1024x768	60.0KHz	75Hz

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

RGB INPUT PC/DT\ (XGA/

RGB/DVT INPUT

(R) OD AUDIO CENTER MODE IN

VARIABLE AUDIO OUT

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 $\odot$ DTV/DVD INPUT

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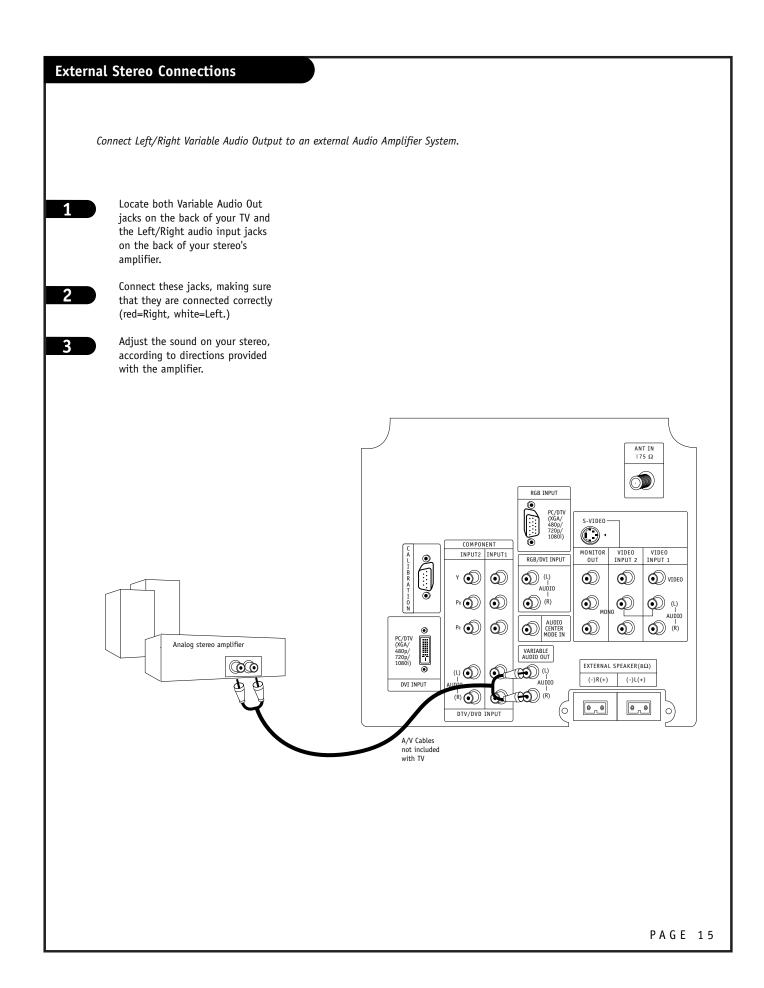
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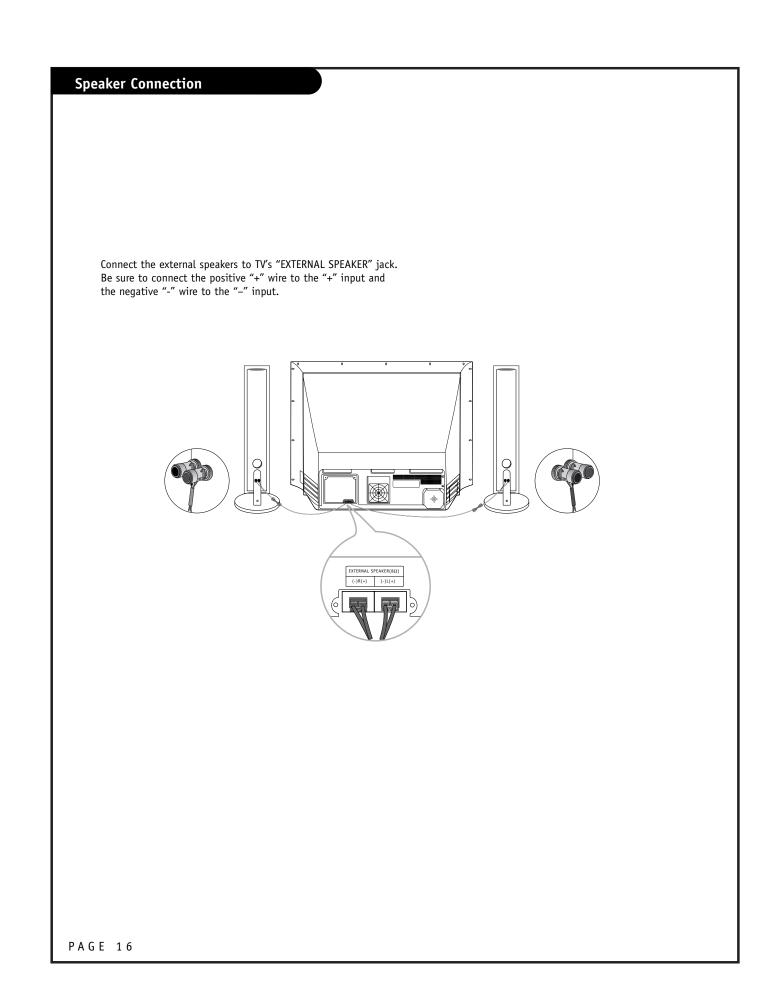
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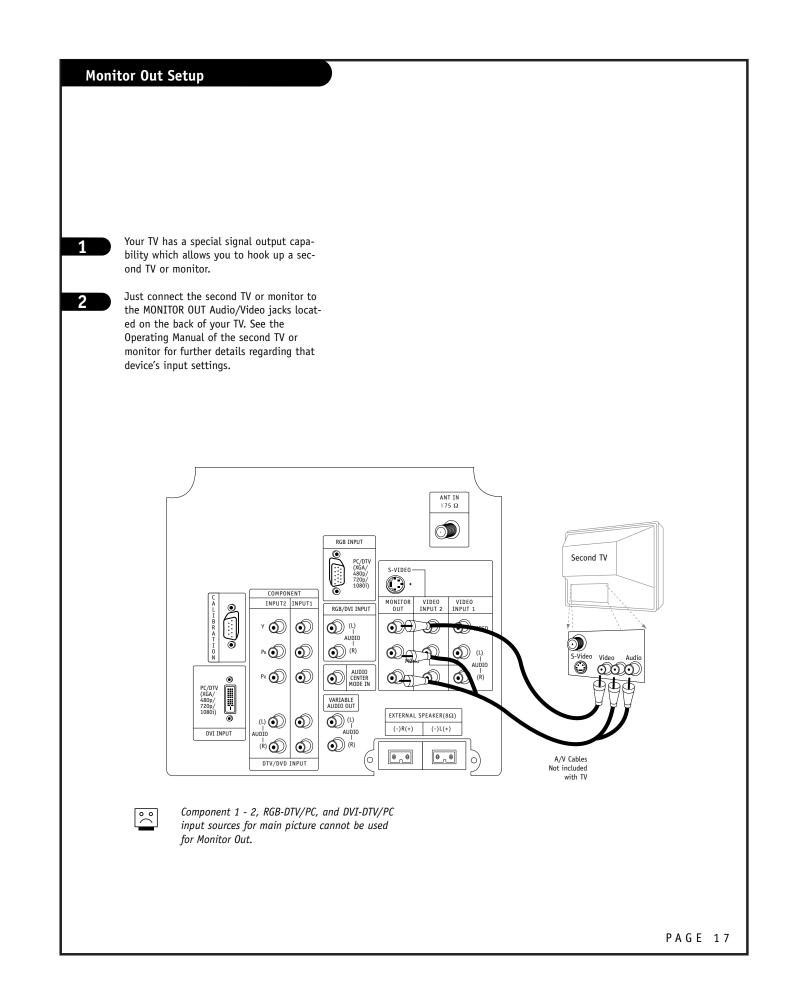
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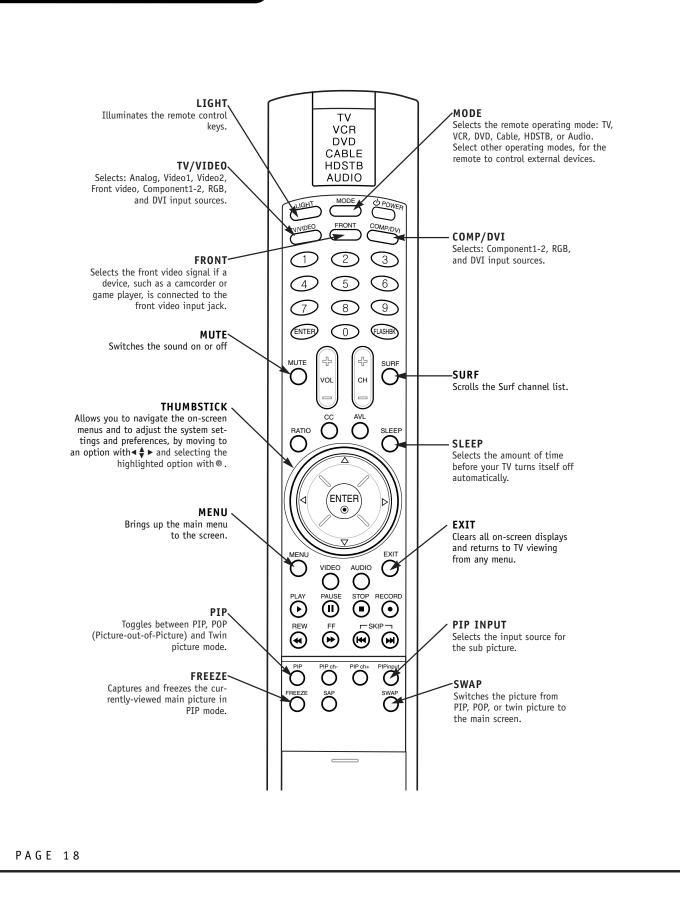
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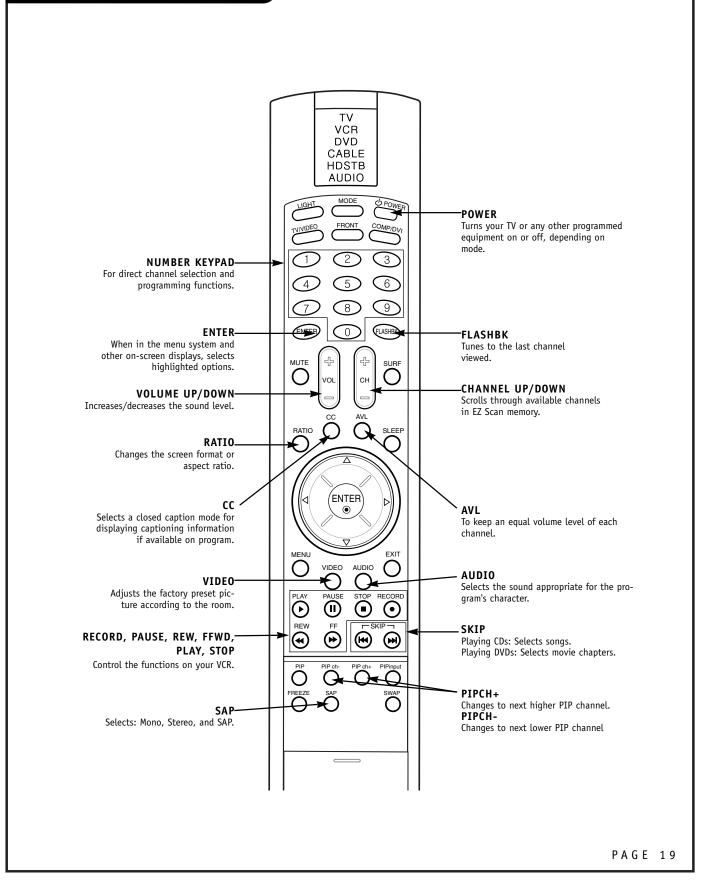


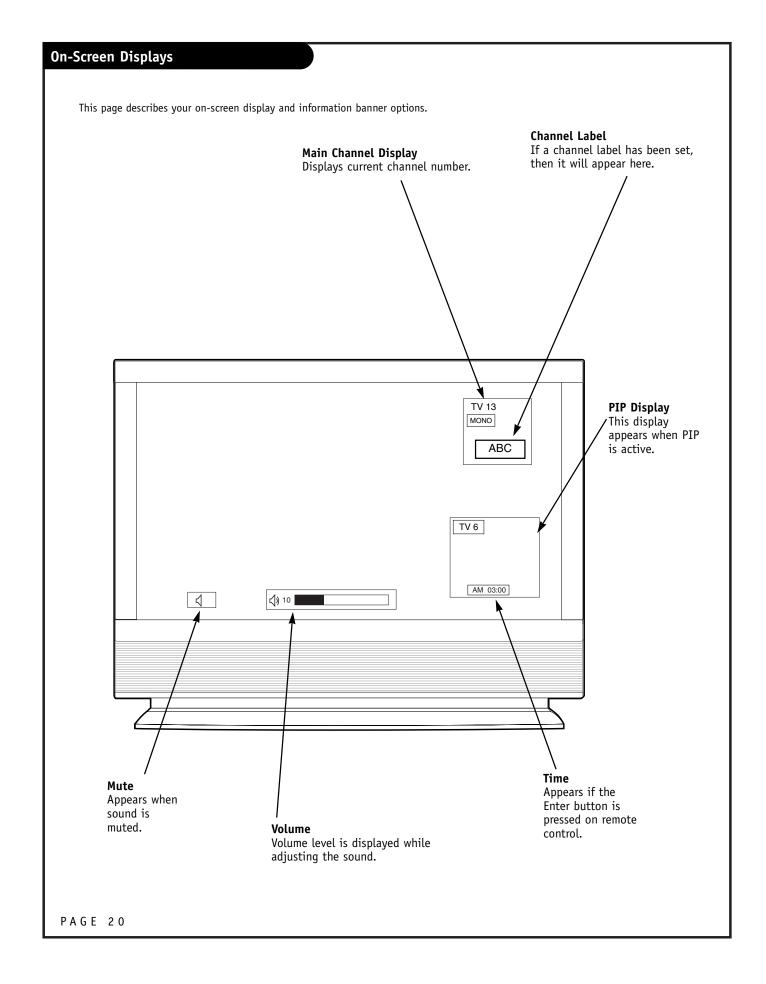


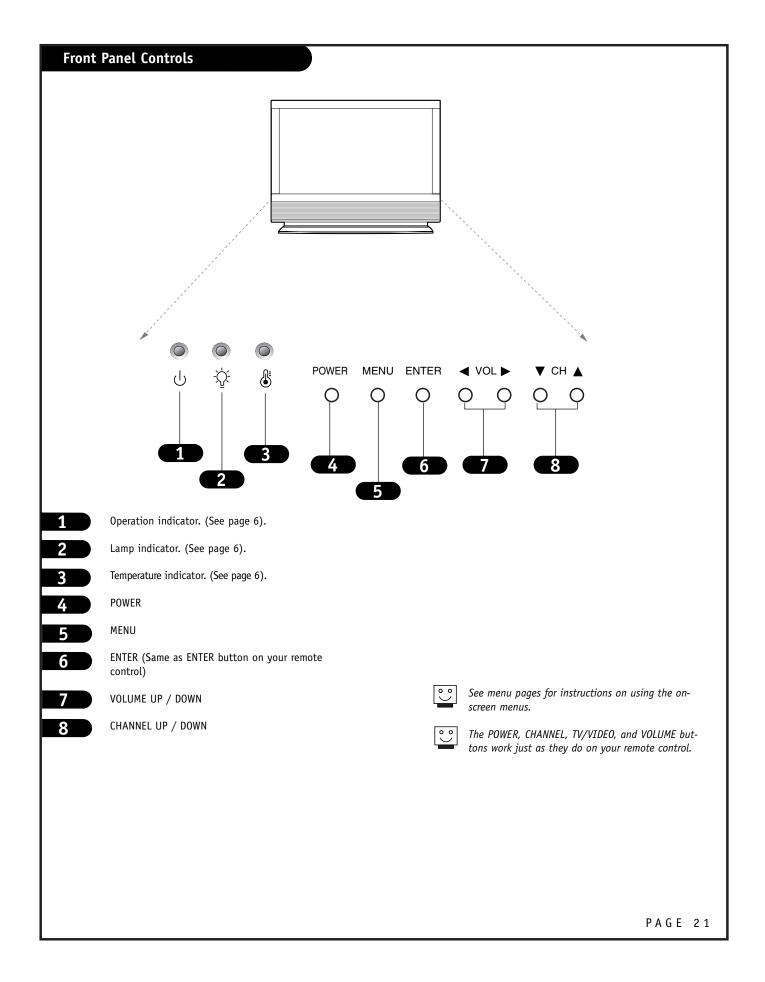
## **Remote Control Functions in TV Mode**



Remote Control Functions in TV Mode

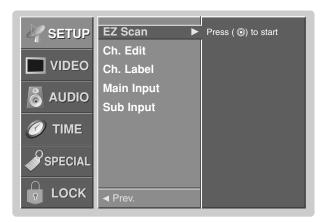






### EZ Scan (Channel Search)

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 not done so, plug in your TV to a standard 120V 60Hz power outlet.

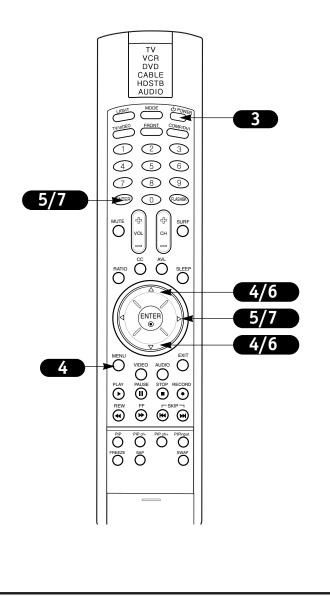
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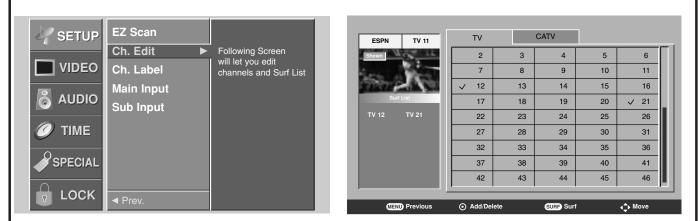
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- If you have not done so, remove the back of the remote and install two AA batteries. Make sure batteries are properly installed (check the +/- symbols).
  With the remote control in hand, press the POWER button to turn your TV on.
  - Press the MENU button on the remote control, then use the UP/DOWN arrow button to select the Setup menu.
- **5** Press ENTER or the RIGHT arrow button to access the Setup menu.
- 6 Use the UP/DOWN arrows to select EZ Scan.
  - Press ENTER or the Right arrow button to start the EZ Scan channel search.



## Channel Add / Del / Surf Setup

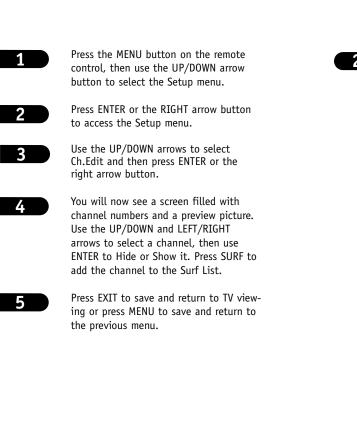


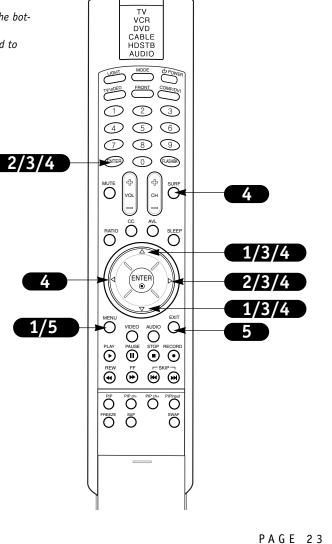
Create two different types of channel lists in memory: "Custom list" and "Surf list".

A custom list can be created by toggling each channel on or off with O (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.

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

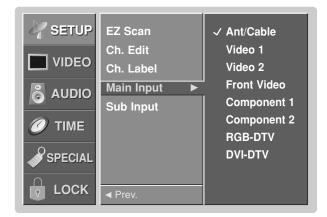


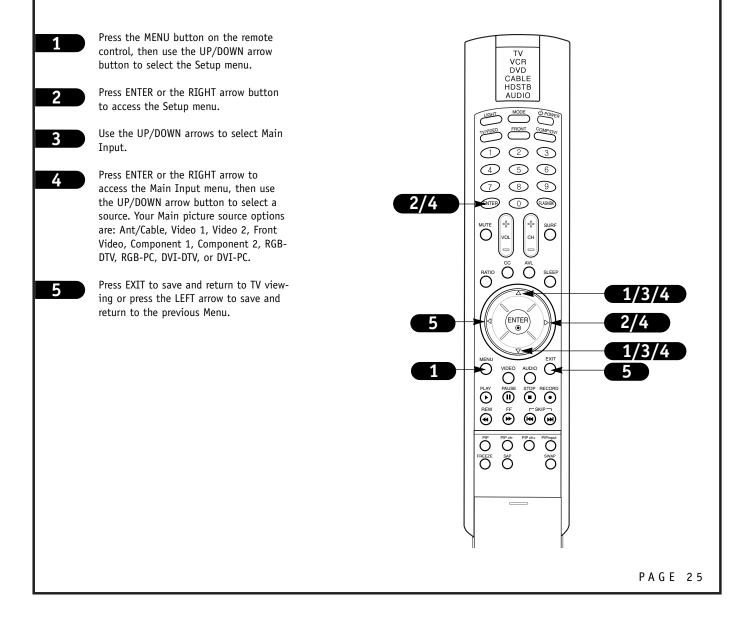


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Sub input 	Main Input the logos in channels	
TIME       SPECIAL         Image: Special       Image: Special         Image: Special       Image: Special         Press the MENU button on the remote control, then use the UP/DOWN arrow button to select the Setup menu.       Image: Special State Sta	Sub Input	
Press       Press       Description       Descrin       Descr		
<ul> <li>Press the MENU button on the remote control, then use the UP/DOWN arrow button to select the Setup menu.</li> <li>Press ENTER or the RIGHT arrow button to access the Setup menu.</li> <li>Use the UP/DOWN arrows to select the Ch. Label menu.</li> <li>Use the UP/DOWN arrows to select the menu.</li> <li>You will now see a menu filled with Labels and a preview screen. Use channel to tabel.</li> <li>Use the UP/DOWN and LEFT/RIGHT arrows and press BURE to set the Label to the selected channel.</li> <li>Use the UP/DOWN/LEFT/RIGHT arrows and press BURE to set the Label to the selected channel.</li> <li>Use the UP/DOWN/LEFT/RIGHT arrows and press BURE to set the Label to the selected channel.</li> <li>Use the UP/DOWN/LEFT/RIGHT arrows and press BURE to set the Label to the selected channel.</li> <li>Use the UP/DOWN/LEFT/RIGHT arrows and press SURE to set the Label to the selected channel.</li> <li>Use the UP/DOWN/LEFT/RIGHT arrows and press SURE to set the Label to the selected channel.</li> <li>Use the UP/DOWN/LEFT/RIGHT arrows and press SURE to set the Label to the selected channel.</li> <li>Use the UP/DOWN/LEFT/RIGHT arrows and press SURE to set the Label to the selected channel.</li> <li>Use the UP/DOWN/LEFT/RIGHT arrows and press SURE to set the Label to the selected channel.</li> <li>The LEFT/RIGHT arrows to select a wailt ade.</li> <li>Use the UP/DOWN/LEFT/RIGHT arrows and press SURE to set the Label to the selected channel.</li> <li>Use the UP/DOWN/LEFT/RIGHT arrows and press SURE to set the Label to the selected channel.</li> <li>Use the UP/DOWN/LEFT/RIGHT arrows and press SURE to set let Label to the selected channel.</li> <li>Use the UP/DOWN/LEFT/RIGHT arrows and press SURE to set let Label to the selected channel.</li> <li>Use the UP/DOWN/LEFT/RIGHT arrows and press SURE to set let Label to the selected channel.</li> <li>Use the UP/DOWN/LEFT/RIGHT arrows are availtable.</li> <li>Use the UP/DOWN/LEFT/RIGHT arrows are availtable.</li> <li>Use the UP/DOWN/LEFT/RIGHT arrows are availtable.</li> <li>Use t</li></ul>		
<ul> <li>Prex</li> <li>Control the use the UP/DOWN arrow button to select the Setup menu.</li> <li>Press ENTER or the RIGHT arrow button to access the Setup menu.</li> <li>Use the UP/DOWN arrows to select the Ch. Label menu.</li> <li>Use the UP/DOWN arrows to select the Ch. Label menu.</li> <li>Press ENTER or the RIGHT arrow to access the Ch. Label menu.</li> <li>You will now see a menu filled with Labels and a previous screen. Use channel to achannel to a comparison of the selected channel.</li> <li>Use the UP/DOWN at LEFT/RIGHT arrows and press SURF to set the Label to the selected channel.</li> <li>Use the UP/DOWN/LEFT/RIGHT arrows and press SURF to set the Label to the selected channel.</li> <li>Use the UP/DOWN/LEFT/RIGHT arrows and press SURF to set the Label to the selected channel.</li> <li>Use the UP/DOWN/LEFT/RIGHT arrows and press SURF to set the Label to the selected channel.</li> <li>Use the UP/DOWN/LEFT/RIGHT arrows and press SURF to set the Label to the selected channel.</li> <li>Use the UP/DOWN/LEFT/RIGHT arrows and press SURF to set the Label to the selected channel.</li> <li>Use the LEFT/RIGHT arrows and press SURF to set the Label to the selected channel.</li> <li>We the LEFT/RIGHT arrows and press SURF to set the Label to the select a channel sections are available.</li> <li>Use the LEFT/RIGHT arrows and press SURF to set the Label to the select down arrows to select a waile achanel sections are available.</li> <li>We the LEFT/RIGHT arrows and press SURF to set the Label to the select down arrows to select a waile achanel sections are available.</li> <li>We the LEFT/RIGHT arrows and press SURF to set the Label to the select down arrows to select a waile achanel sections are available.</li> <li>We the LEFT/RIGHT arrows are of the select arrow to arrow to arrow to ar</li></ul>	SPECIAL	
<ul> <li>Press the MENU button on the remote control, then use the UP/DOWN arrow button to select the Setup menu.</li> <li>Press ENTER or the RIGHT arrow button to access the Setup menu.</li> <li>Use the UP/DOWN arrows to select the Ch. Label menu to select a channel tiled with Labels and a preview screen. Use channel up/DOWN button on your remote to select a channel to Label.</li> <li>Use the UP/DOWN and LEFT/RIGHT arrows and press INTER to set the Label to the selected channel.</li> <li>Use the UP/DOWN/LEFT/RIGHT arrows and press INTER to set the Label to the select a channel and press INTER to set the Label to the select a channel name. Eight blank channel name. Eight blank channel name. Eight blank channel name. Eight blank channel names to shane to the UP/DOWN arrows to select a word position and use the UP/DOWN arrows to select a word position and use the UP/DOWN arrows to select a propriate label for the selected channel.</li> <li>Beneat 5 and 6 sters until all channels.</li> </ul>		· · · · · ·
<ul> <li>Press the MENU button on the remote control, then use the UP/DOWN arrow button to select the Setup menu.</li> <li>Press ENTER or the RIGHT arrow button to access the Setup menu.</li> <li>Use the UP/DOWN arrows to select the Ch. Label option.</li> <li>Press ENTER or the RIGHT arrow to access the Ch. Label menu.</li> <li>You will now see a menu filed with Label send a previow screen. Use channel uP/DOWN button on your remote to select a blank label section to use to create a channel name.</li> <li>Use the UP/DOWN/LEFT/RIGHT arrows and press SINTER to set the Label to the selected channel.</li> <li>Use the UP/DOWN/LEFT/RIGHT arrows and press SINTER to set the Label to the selected channel.</li> <li>Use the UP/DOWN/LEFT/RIGHT arrows and press SINTER to set the Label to the selected channel.</li> <li>Use the UP/DOWN/LEFT/RIGHT arrows and press SINTER to set the Label to the selected channel.</li> <li>Eight blank channel sections are available.</li> <li>Use the LIFT/RIGHT arrows to select a word position and use the UP/DOWN arrows to change the letter. Press SURF to save.</li> <li>Repeat 5 and 6 steps until all changes.</li> </ul>		
<ul> <li>Press the ENU button on the remote control, then use the UP/DOWN arrow button to select the Setup menu.</li> <li>Press ENTER or the RIGHT arrow button to access the Setup menu.</li> <li>Use the UP/DOWN arrows to select the Ch. Label option.</li> <li>Press ENTER or the RIGHT arrow to access the Ch. Label menu.</li> <li>You will now see a menu filled with Labels and a preview screen. Use channel uP/DOWN and LEFT/RIGHT arrows to select a blank label section to use to create a channel name.</li> <li>Use the UP/DOWN/LEFT/RIGHT arrows and press ENTER to set the Label to the selected channel.</li> <li>Use the UP/DOWN/LEFT/RIGHT arrows and press ENTER to set the Label to the selected channel.</li> <li>Use the UP/DOWN/LEFT/RIGHT arrows and press ENTER to set the Label to the selected channel.</li> <li>Use the UP/DOWN/LEFT/RIGHT arrows and press ENTER to set the Label to the selected channel.</li> <li>Use the UP/DOWN/LEFT/RIGHT arrows and press ENTER to set the Label to the selected channel.</li> <li>Use the UP/DOWN/LEFT/RIGHT arrows and press SURF to edit channel name. Eight blank channel sections are available.</li> <li>Use the LEF/RIGHT arrows to change the letter. Press SURF to save.</li> <li>Reneat 5 and 6 steps until all channels</li> </ul>		MEND Previous 💿 Add/Delete 🔶 Move CH 🔮 Change CF
<ul> <li>Press the ENU button on the remote control, then use the UP/DOWN arrow button to select the Setup menu.</li> <li>Press ENTER or the RIGHT arrow button to access the Setup menu.</li> <li>Use the UP/DOWN arrows to select the Ch. Label option.</li> <li>Press ENTER or the RIGHT arrow to access the Ch. Label menu.</li> <li>You will now see a menu filled with Labels and a preview screen. Use channel uP/DOWN and LEFT/RIGHT arrows to select a blank label section to use to create a channel name.</li> <li>Use the UP/DOWN/LEFT/RIGHT arrows and press ENTER to set the Label to the selected channel.</li> <li>Use the UP/DOWN/LEFT/RIGHT arrows and press ENTER to set the Label to the selected channel.</li> <li>Use the UP/DOWN/LEFT/RIGHT arrows and press ENTER to set the Label to the selected channel.</li> <li>Use the UP/DOWN/LEFT/RIGHT arrows and press ENTER to set the Label to the selected channel.</li> <li>Use the UP/DOWN/LEFT/RIGHT arrows and press ENTER to set the Label to the selected channel.</li> <li>Use the UP/DOWN/LEFT/RIGHT arrows and press SURF to edit channel name. Eight blank channel sections are available.</li> <li>Use the LEF/RIGHT arrows to change the letter. Press SURF to save.</li> <li>Reneat 5 and 6 steps until all channels</li> </ul>		Choose preset labels for your channels.
<ul> <li>Ch. Label option.</li> <li>Press ENTER or the RIGHT arrow to access the Ch. Label menu.</li> <li>You will now see a menu filled with Labels and a preview screen. Use channel UP/DOWN button on your remote to select a channel to Label.</li> <li>Use the UP/DOWN and LEFT/RIGHT arrows and press ENTER to set the Label to the selected channel.</li> <li>Use the UP/DOWN/LEFT/RIGHT arrows and press SURF to set the Label to the select d channel ame. Eight blank channel sections are available. Use the LEFT/RIGHT arrows to select a word position and use the UP/DOWN arrows to change the letter. Press SURF to save.</li> <li>Prepart 5 and 6 steps until all channels</li> </ul>	<ul> <li>button to select the Setup menu.</li> <li>Press ENTER or the RIGHT arrow button to access the Setup menu.</li> <li>Use the UP/DOWN arrows to select the</li> </ul>	menu to select a channel for labeling, then choose a suitable label for the channel by pressing () to attach
<ul> <li>Labels and a preview screen. Use channel UP/DOWN button on your remote to select a channel to Label.</li> <li>Use the UP/DOWN and LEFT/RIGHT arrows and press ENTER to set the Label to the selected channel.</li> <li>Use the UP/DOWN/LEFT/RIGHT arrows and press SURF to set the Label to the selected channel.</li> <li>Use the UP/DOWN/LEFT/RIGHT arrows and press SURF to edit channel name. Eight blank channel sections are available. Use the LEFT/RIGHT arrows to select a word position and use the UP/DOWN arrows to change the letter. Press SURF to save.</li> <li>Repeat 5 and 6 steps until all channels</li> </ul>	Press ENTER or the RIGHT arrow to	VCR DVD CABLE HDSTB
<ul> <li>Use the UP/DOWN and LEFT/RIGHT arrows to select the appropriate label for the channel or to select a blank label section to use to create a channel name.</li> <li>Use the UP/DOWN/LEFT/RIGHT arrows and press ENTER to set the Label to the selected channel.</li> <li>Use the UP/DOWN/LEFT/RIGHT arrows and press SURF to edit channel name. Eight blank channel sections are available. Use the LEFT/RIGHT arrows to select a word position and use the UP/DOWN arrows to change the letter. Press SURF to save.</li> <li>Beneat 5 and 6 steps until all channels.</li> </ul>	Labels and a preview screen. Use channel UP/DOWN button on your remote to	
<ul> <li>Use the UP/DOWN/LEFT/RIGHT arrows and press ENTER to set the Label to the selected channel.</li> <li>Use the UP/DOWN/ LEFT/RIGHT arrows and press SURF to edit channel name. Eight blank channel sections are available. Use the LEFT/RIGHT arrows to select a word position and use the UP/DOWN arrows to change the letter. Press SURF to save.</li> <li>Repeat 5 and 6 steps until all channels.</li> </ul>	arrows to select the appropriate label for the channel or to select a blank label	2/4/6 MJTE + (+) SURF
<ul> <li>Use the UP/DOWN/ LEFT/RIGHT arrows and press SURF to edit channel name. Eight blank channel sections are available. Use the LEFT/RIGHT arrows to select a word position and use the UP/DOWN arrows to change the letter. Press SURF to save.</li> <li>Repeat 5 and 6 steps until all channels.</li> </ul>		
Repeat 5 and 6 steps until all channels		
	<ul> <li>Use the UP/DOWN/ LEFT/RIGHT arrows and press SURF to edit channel name.</li> <li>Eight blank channel sections are avail- able.</li> <li>Use the LEFT/RIGHT arrows to select a word position and use the UP/DOWN arrows to change the letter. Press SURF</li> </ul>	

### **Main Picture Source Selection**

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





## PIP (Picture-in-Picture)

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.

#### Watching PIP

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

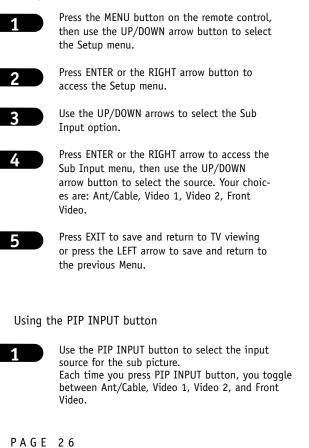
PIP Mode

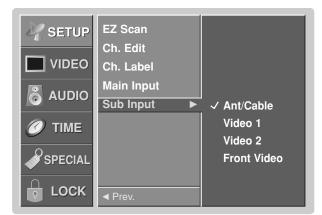


#### **PIP Source Selection**

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

#### Using the menu



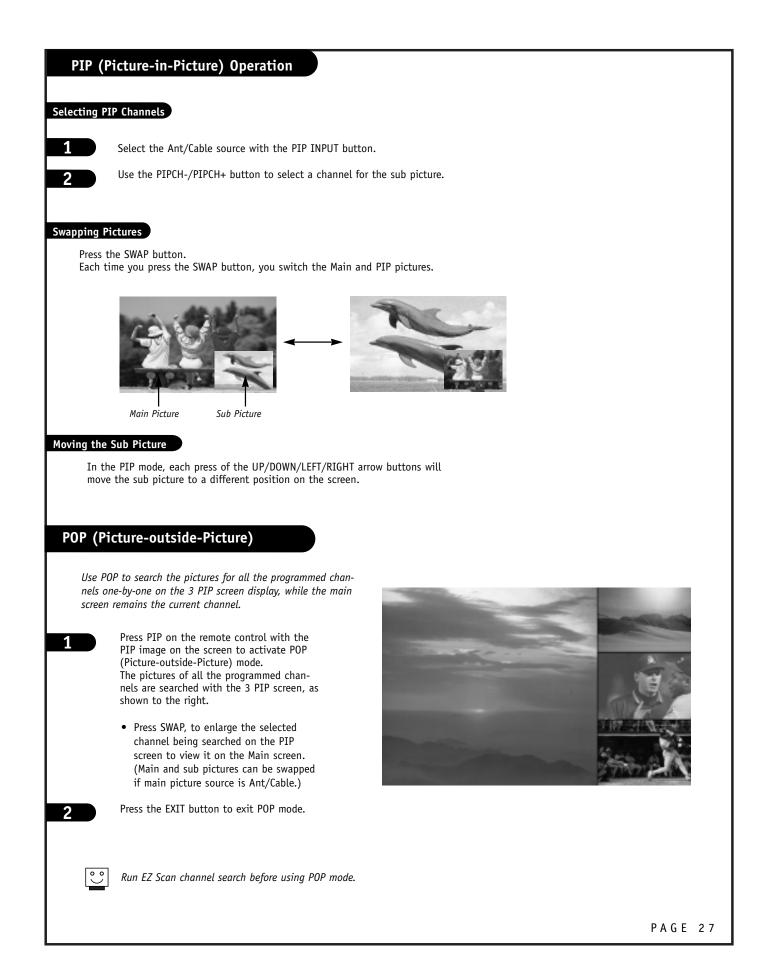


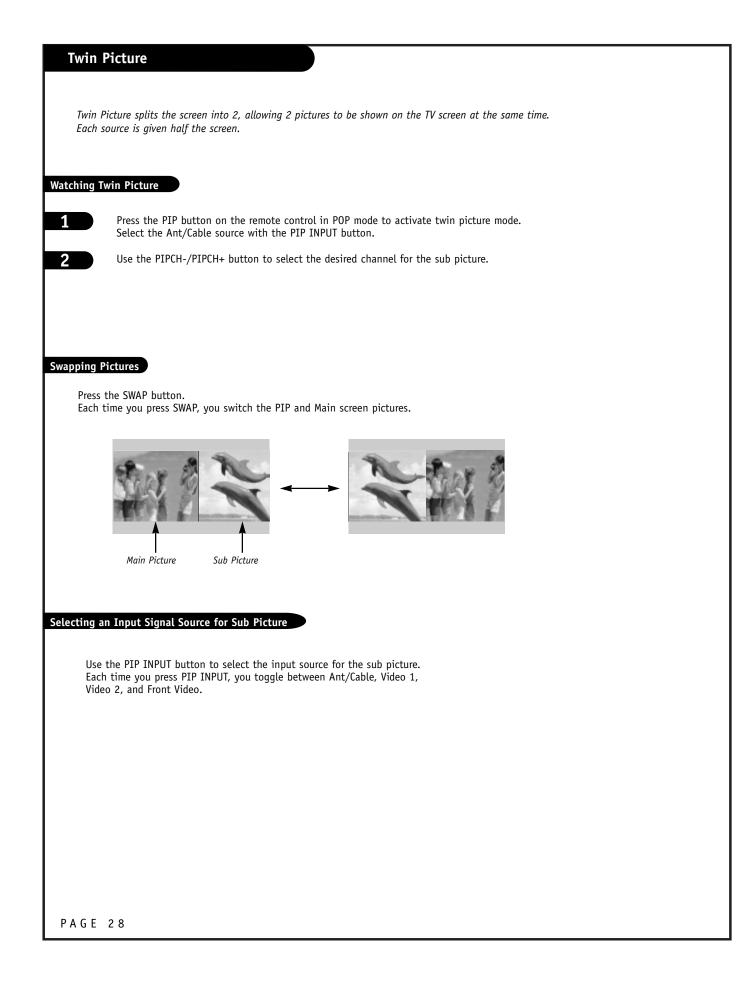


Do not display a fixed image on the screen for long periods of time. Doing so may cause image burn-in.



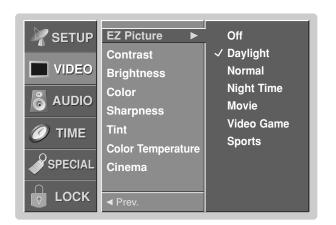
Not all sources are available for PIP.





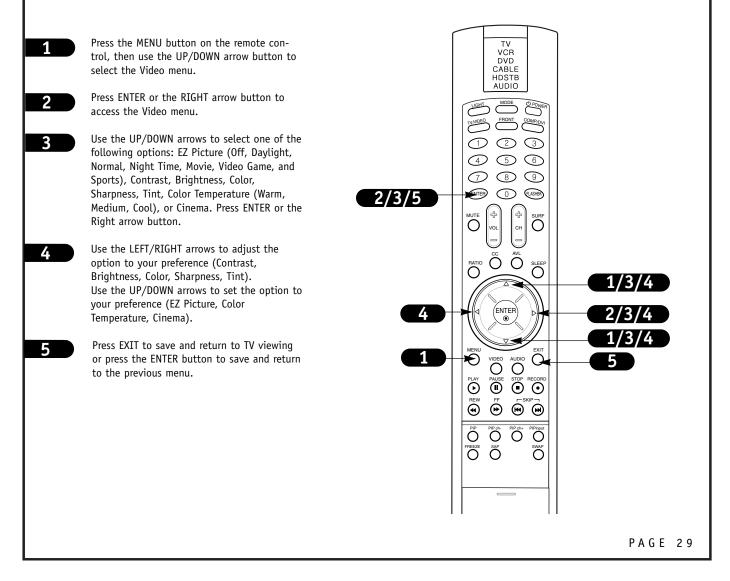
### **Video Menu Options**

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

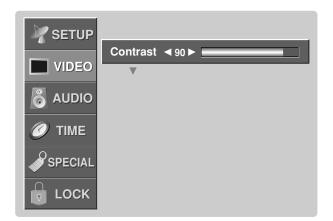


You can manually adjust the levels for the picture quality settings, such as Contrast, Brightness, Color, etc.

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



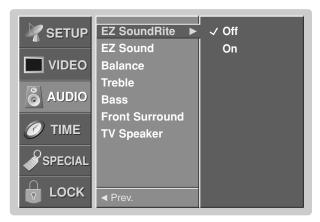
**Video Menu Options** 

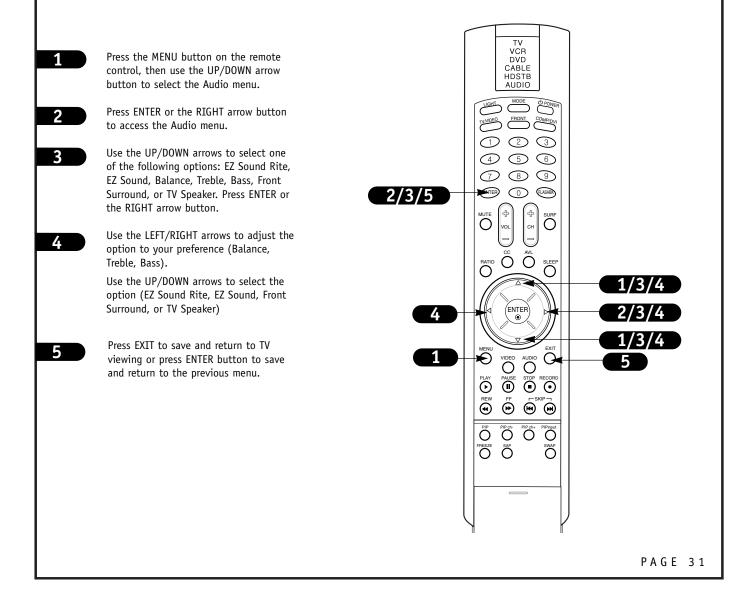


- **Contrast** Adjusts the difference between the light and dark levels of the picture. Press the right arrow button to activate adjusting.
- Brightness Adjusts the white or light level of the overall picture.
- **Color** Adjusts the intensity of all colors.
- **Sharpness** Adjusts the level of crispness 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.
- EZ Picture Offers the following preset options 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. Normal Restores the picture levels back 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.
  Color Temperature Adjusts levels of all colors in the TV picture: Warm, Medium, or cool.
  Cinema Adjust the TV for the best picture for watching movies. To use Cinema, you must choose the Movie option in EZ Picture.

### **Audio Menu Options**

Adjust the sound to suit your taste and room situations.





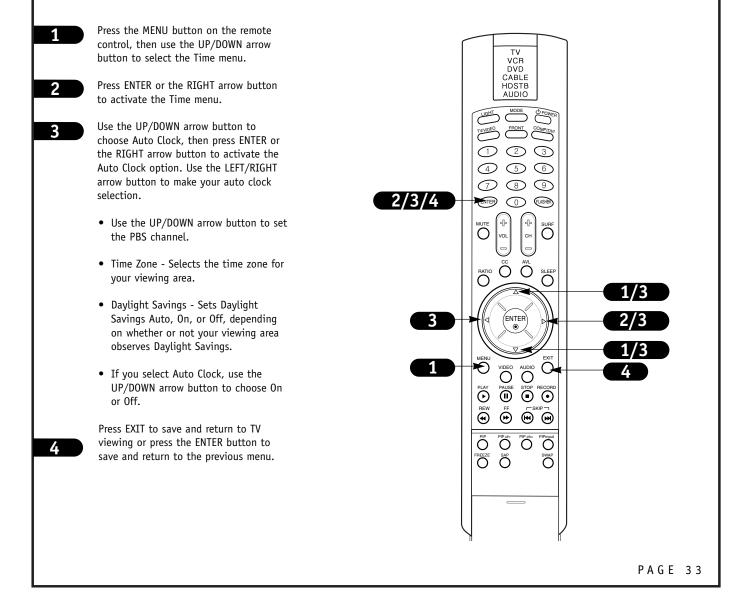
Audio Menu Options (Contd.)
✓ SETUP   ✓ VIDEO   ▲   ▲   ▲   Bass < 50 >     Bass < 50 >     ▲   ▲   ▲   ▲   ■   ▲   ↓   LOCK
<ul> <li>EZ SoundRite Scans for changes in sound level during commercials, then adjusts the sound to match the current aufoi level of the TV program you are watching. You can also use this function with AVL button.</li> <li>EZ Sound Chooses the sound options manually. Off lets you adjust the Audio menu sound options manually. Normal Restores the sound settings to their original levels. Stadium Stresses high frequency sounds and front surround sound to create the sensation you would experience in a stadium. News Increases both high and low frequency sounds to stress the sound set of musical instruments. These Stresses both high and low frequency sounds in a difficient to the front surround sound, to create the sensation you would appendix in addition to the front surround sound, to create the sensation you would experience in a theater.</li> <li>Balance Adjusts the sound more to the left or right for the TV speakers. Increases in treble, for example, make voice or string sounds stand out.</li> <li>Bass Increases of decreases the higher frequency sounds from the TV speakers.</li> <li>Front Surround Increases the front surround sound to create more open and expanded sound.</li> <li>TV Speaker Allows you to toggle the TV internal speakers. However, you may use the internal TV speakers as a center speaker to create a surround effect.</li> </ul>
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## **Auto Clock Setup**

Sets the time automatically from the PBS broadcast signal.

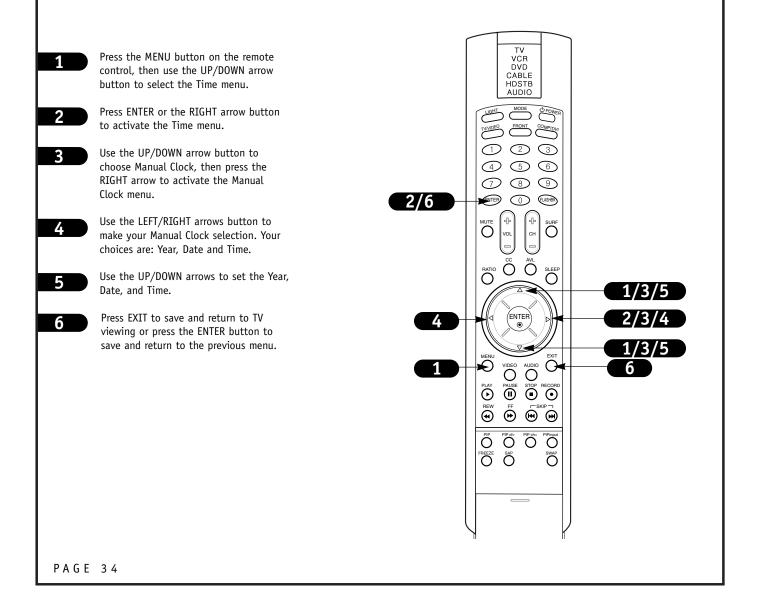
The PBS channel signal includes information for the correct time.





## Manual Clock Setup



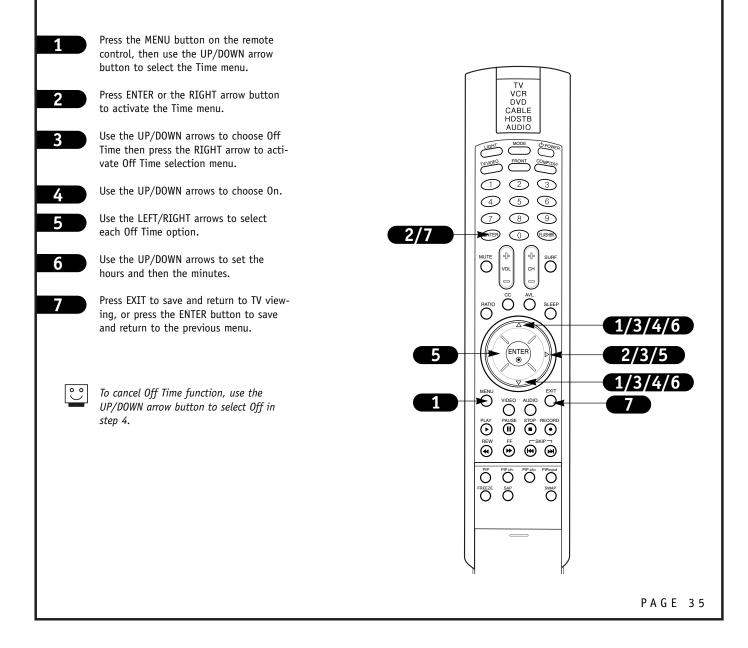


## TV Turn Off Time Setup

Set up a time for your TV to automatically turn itself off each day.

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

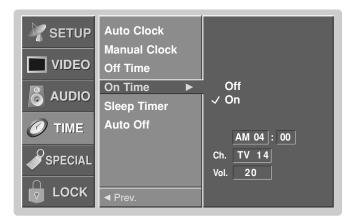


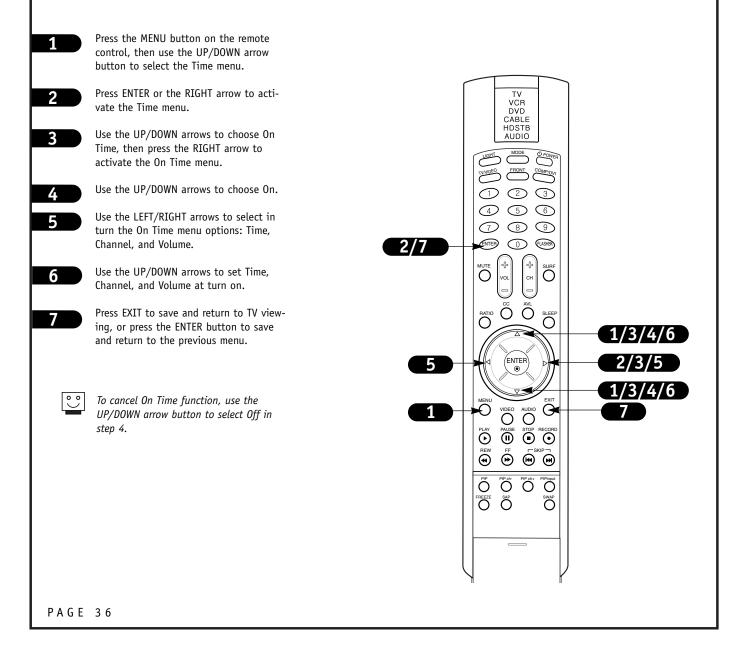


## **TV Turn On Time Setup**

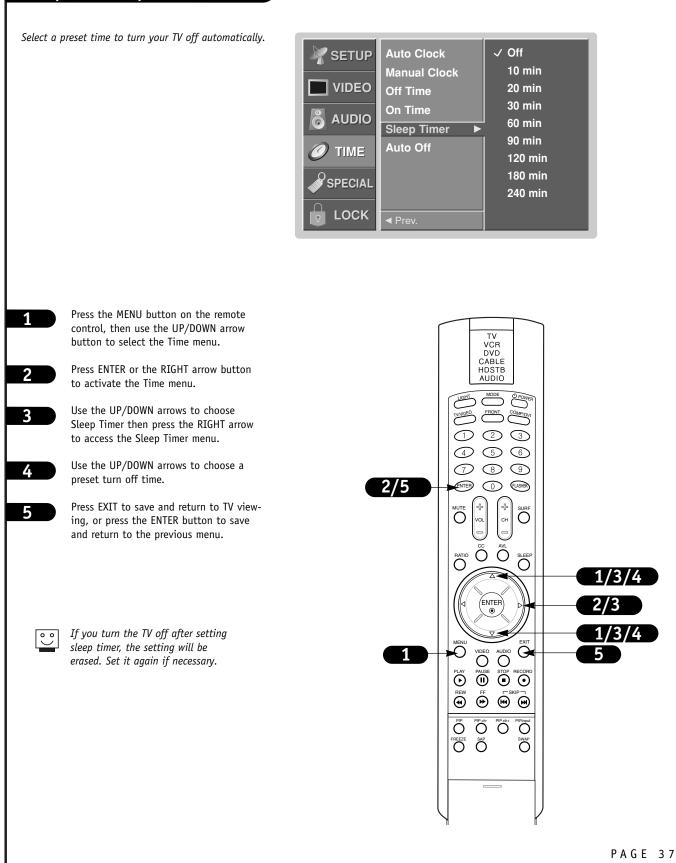
Set up a time for your TV to automatically turn itself on each day.

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



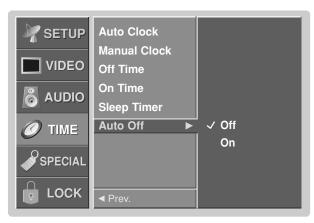


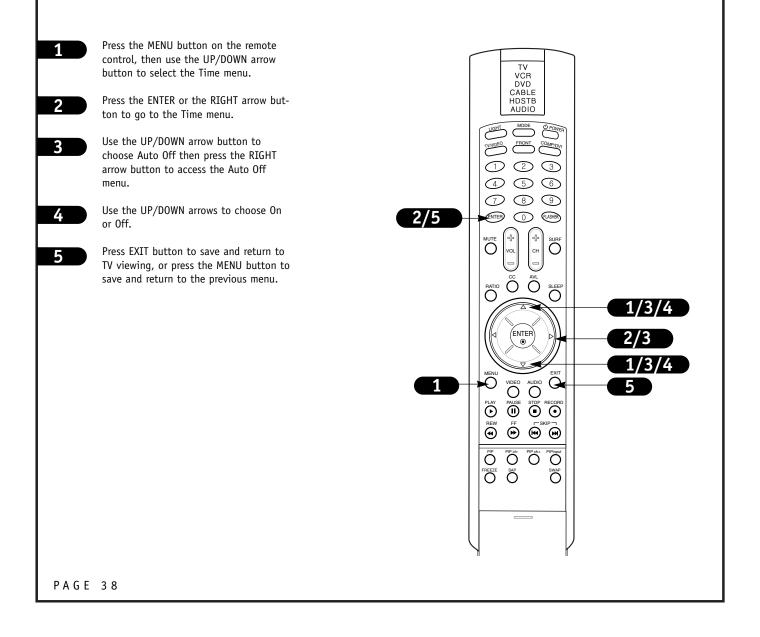
### **Sleep Timer Setup**



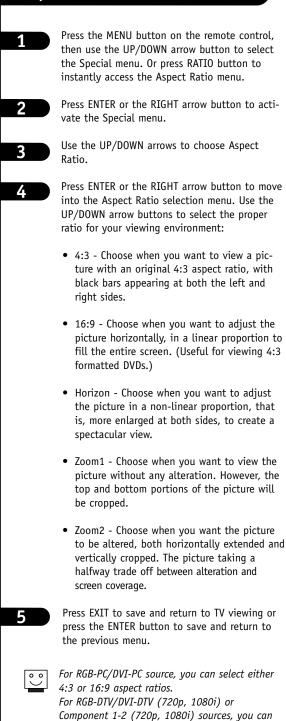
### Auto Off

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



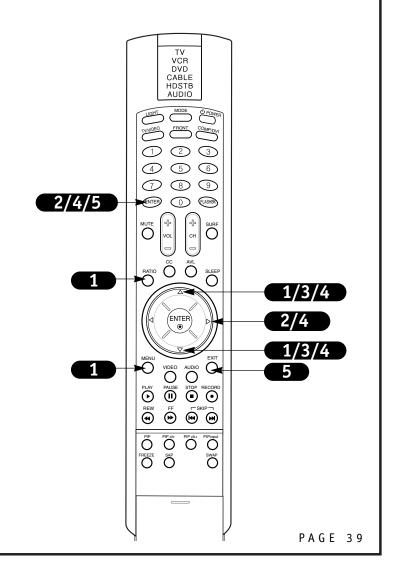


#### Aspect Ratio



Aspect Ratio SETUP √ 4:3 Captions 16:9 VIDEO Caption/Text Horizon Zoom1 Language **AUDIO** Zoom2 EZ Demo TIME SPECIA LOCK

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.



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select either 4:3, 16:9 or Zoom1-2 aspect ratios.

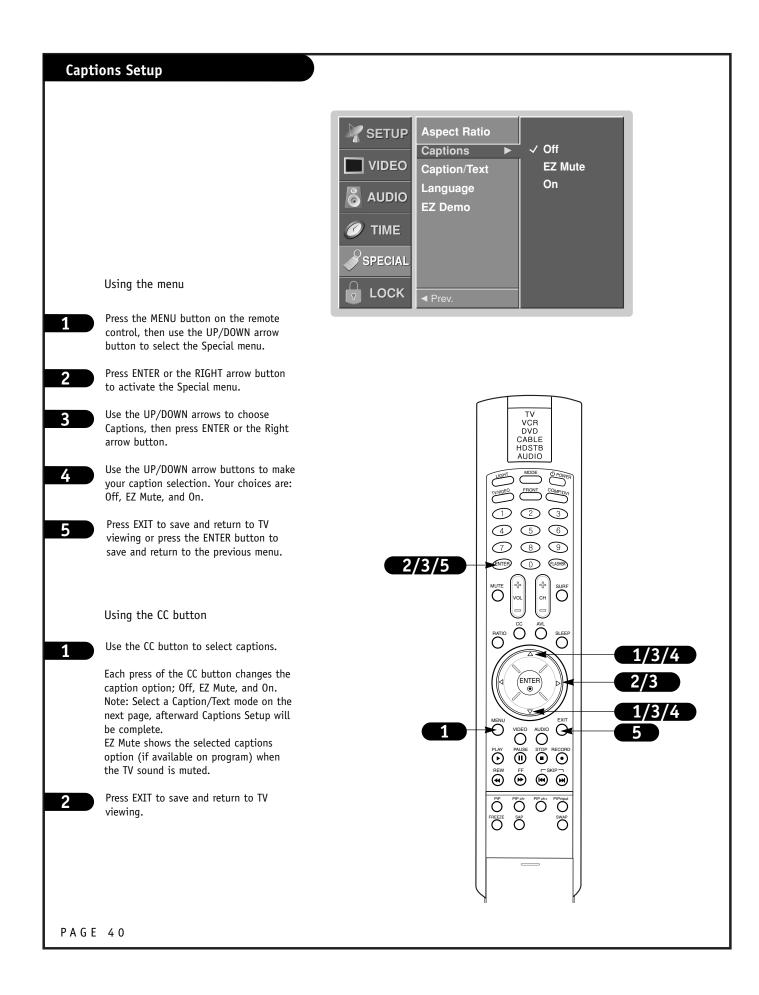
Aspect ratio is changed to 16:9 automatically for

720p or 1080i formats from component input1/2,

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.

RGB, or DVI sources.



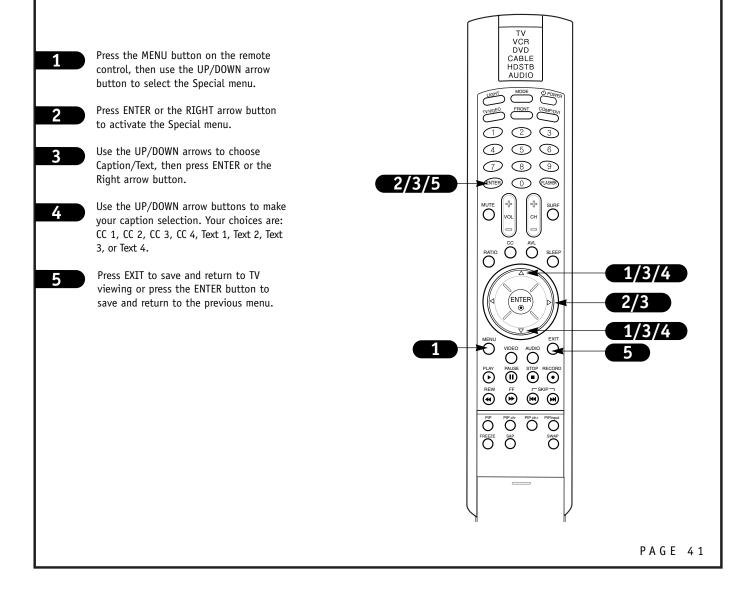
### **Caption/Text Mode Selection**

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

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

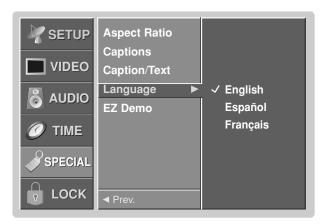
Text displays information, usually at the bottom portion of the screen and is used for a data service, generally not program related.

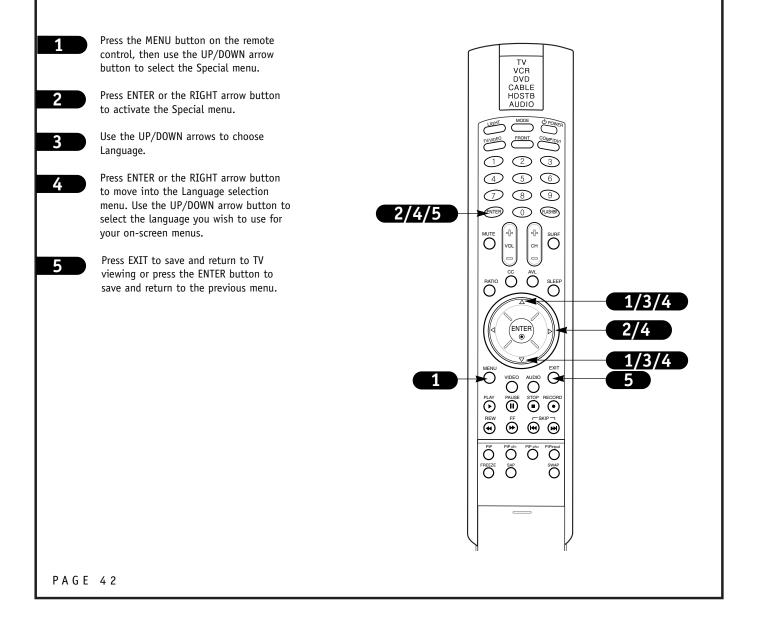
SETUP VIDEO AUDIO TIME	Aspect Ratio Captions Caption/Text ► Language EZ Demo	<ul> <li>✓ CC 1</li> <li>CC 2</li> <li>CC 3</li> <li>CC 4</li> <li>Text 1</li> <li>Text 2</li> <li>Text 3</li> <li>Text 4</li> </ul>
	<ul> <li>✓ Prev.</li> </ul>	



#### **On-Screen Menus Language**

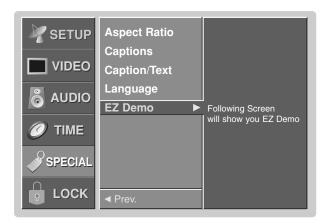
Select your preferred language for the menus: English, Spanish, or French.

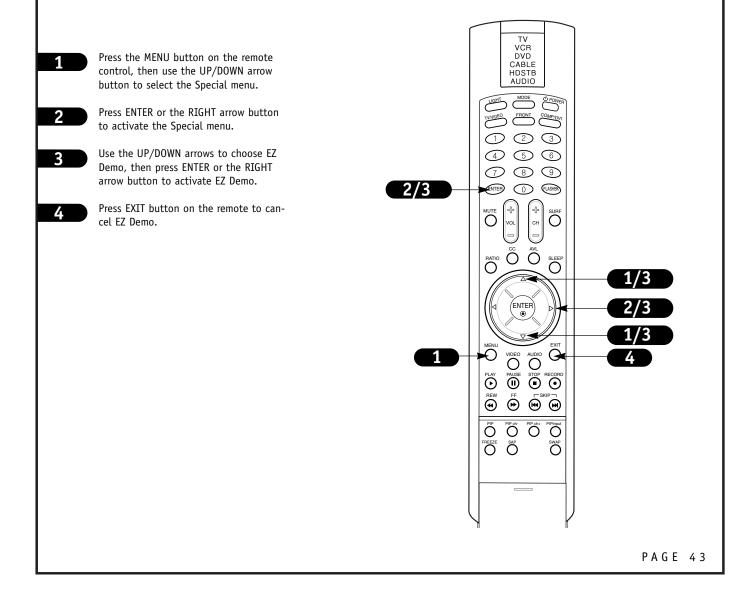




### EZ Demo (Menu Review)

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

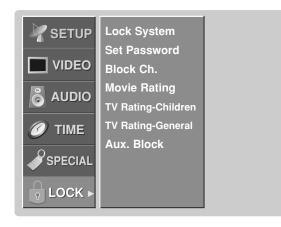


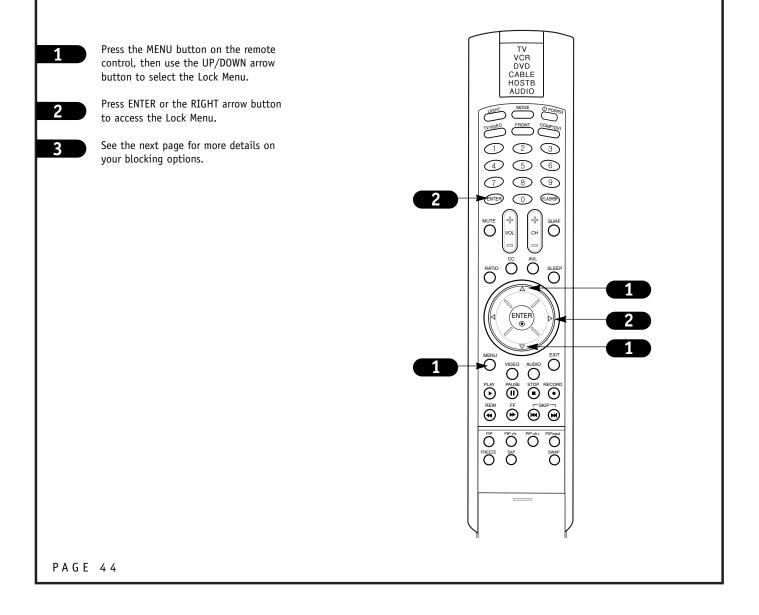


## Parental Lock Setup

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

If the Lock System is active, a password is required to gain access to this menu.





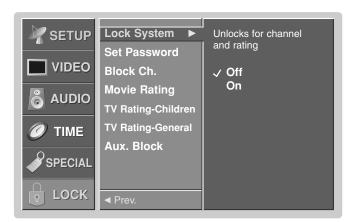
#### Parental Lock Setup (Contd.)

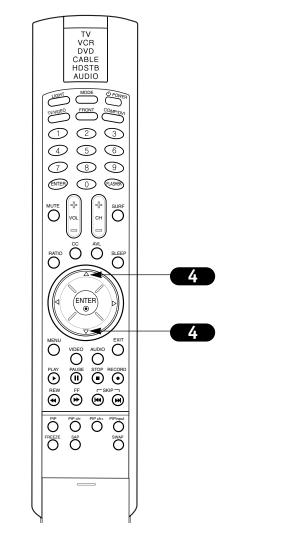
4

Use the UP/DOWN arrows 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.
- Block Ch.: Blocks any channels that you do not want to watch or that you do not want your children to watch.
- 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 the specified level. Keep in mind that the movie ratings limit only applies to movies 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.
- Aux. Block: Enables you to select a source for blocking among the source devices you have hooked up.

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



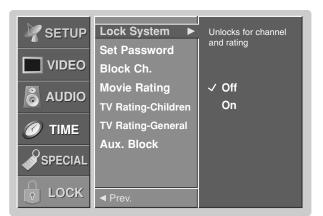


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Parental Lock (Ratings Overview)

#### Parental Lock Rating Descriptions



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

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

**G** (General Audience): Suitable for all ages.

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 accompanying parent or adult guardian.

NC-17: Not suitable for persons 17 and younger.

 $\ensuremath{\text{TV-Y}}$  (All Children): Program is determined to be appropriate for all children.

X: Adult only.

Blocking Off: Permits all programs.

#### Programming the Remote

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The remote control 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.

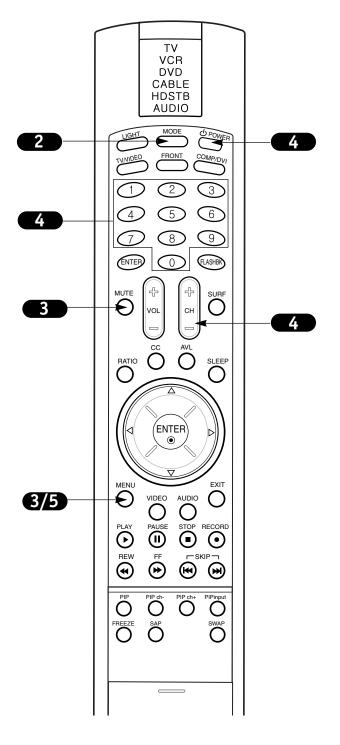
- 2 Turn on the device to be programmed. Then press the corresponding MODE button on the remote control.
- **3** Press the MENU button and the MUTE button simultaneously. Now the remote control is ready to program the code for the corresponding device.
  - There are two ways to find the right code for 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 when you press the POWER button.

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



# Programming Code

### VCRs

Brand	Code	es			Brand	Cod	es			Brand	Cod	es			Brand	Cod	es		
AIWA	034				KENWOOD	014	034	039	043	PORTLAND	108				TATUNG	039	043		
AKAI	016	043	046	124		047	048			PULSAR	072				TEAC	034	039	043	
	125	146			LG (GOLDSTAR)	001	012	013	020	QUARTZ	011	014			TECHNICS	031	033	070	
AMPRO	072				. ,	101	106	114	123	QUASAR	033	066	075	145	TEKNIKA	019	031	033	034
ANAM	031	033	103		LLOYD	034				RCA	013	020	033	034		101			
AUDIO DYNAMICS	012	023	039	043	LXI	003	009	013	014		040	041	062	063	THOMAS	034			
BROKSONIC	035	037	129			017	034	101	106		107	109	140	144	ТМК	006			
CANON	028	031	033		MAGIN	040					145	147			TOSHIBA	008	013	042	047
CAPEHART	108				MAGNAVOX	031	033	034	041	REALISTIC	003	008	010	014		059	082	112	131
CRAIG	003	040	135			067	068				031	033	034	040	TOTEVISION	040	101		
CURTIS MATHES	031	033	041		MARANTZ	012	031	033	067		053	054	101		UNITECH	040			
DAEWOO	005	007	010	064		069				RICO	058				VECTOR RESEARCH	012			
	065	108	110	111	MARTA	101				RUNCO	148				VICTOR	048			
	112	116	117	119	MATSUI	027	030			SALORA	014				VIDEO CONCEPTS	012	034	046	
DAYTRON	108				MEI	031	033			SAMSUNG	032	040	102	104	VIDEOSONIC	040			
DBX	012		039	043	MEMOREX	003		014			105			112	WARDS	003			024
DYNATECH	034	053				033		053			113	115	120	122		031			040
ELECTROHOME	059					101		134	139		125					053		131	
EMERSON	006	017	025	027	MGA	045		059		SANSUI	022	043		135	YAMAHA	012	034		043
	029		034		MINOLTA	013	020			SANYO	003	007	010	014	ZENITH	034		056	
	036		046		MITSUBISHI	013		045			102					058	072	080	101
	129		138			049	051	059	061	SCOTT	017	037	112	129					
FISHER	003	008	009	010		151					131								
FUNAI	034				MTC	034	040			SEARS	003	00	009						
GE	031		063		MULTITECH	024	034			010	013			020					
	107		144	147	NEC		023	039	043		031	042	073	081					
GO VIDEO	132	136				048					101								
HARMAN KARDON	012	045			NORDMENDE	043				SHARP	031	054	149						
HITACHI	004		026		OPTONICA	053	054			SHINTOM	024								
	043		137	150	PANASONIC	066		074	083	SONY	003		031						
INSTANTREPLAY	031	033				133	140				056			076					
JCL	031	033			PENTAX	013	020	031	033		077	078	149						
JCPENNY	012		015	033		063				SOUNDESIGN	034								
	040	066	101		PHILCO		034			STS	013								
JENSEN	043				PHILIPS	031		034	054	SYLVANIA		033	034	059					
JVC	012		033			067	071	101			067								
	048		055	060	PILOT	101				SYMPHONIC	034								
	130	150	152		PIONEER	013	021	048		TANDY	010	034							

### CATV

Brand	Codes				Brand	Code	25			Brand	Cod	es			Brand	Cod	es		
ABC	003 C	004	039	042	GOLDEN CHANNEL	030					065	085	090		SL MARX	030			-
	046 0	052	053		HAMLIN	049	050	055		PIONEER	034	051	052	063	SPRUCER	047	078		
AJIN	112				HITACHI	052	055				076				STARCOM	002	004	008	009
ANTRONIK	014				HOSPITALITY	070	077			POST NEWS WEEK	016				STARGATE	008	030		
ARCHER	005 0	007	014	024	JERROLD	002	003	004	008	PRUCER	059				SYLVANIA	067			
CABLE STAR	026					009	010	052	069	PTS	011	048	071	072	TADIRAN	030			
CENTURION	092					074					073	074			TAEKWANG	110			
CENTURY	007				LG (GOLDSTAR)	001	106	101	005	PULSAR	100				TAIHAN	105			
CITIZEN	007				M-NET	037				RCA	047				TANDY	017			
COLOUR VOICE	065 0	090			MACOM	033				REGAL	049	050			TEXSCAN	029	067		
COMBANO	080 0	081			MAGNAVOX	010	012	064	079	REGENCY	057				тосом	039	040	056	
COMTRONICS	019 0	030			MEMOREX	100				REMBRANT	025				TOSHIBA	100			
DIAMOND	023				MOVIE TIME	028	032			RK	091				UNIKA	007	014	024	
EAGLE	020 0	030	040		NSC	015	028	038	071	SAMSUNG	102	107	030	068	UNITED CABLE	004	053		
EASTERN	057 C	062	066			073				SCIENTIFIC ATLANTA	003	011	041	042	UNIVERSAL	005	007	014	024
ELECTRICORD	032				OAK	016	031	037	053		043	045	046			026	027	032	035
GE	072				PANASONIC	044	047			SHERITECH	022				VIEWSTAR	012	015	018	086
GEMINI	008 0	022	025	054	PARAGON	100				SIGNAL	030					087	088	089	
GI	052 0	074			PHILIPS	006	012	013	020	SIGNATURE	052				ZENITH	100	114	060	093

## Programming Codes

### HDSTB

Brand	Codes	5			Brand	Code	es			Brand	Code	es			Brand	Cod	es		
ALPHASTAR DSR	123				EUROPLUS	114				MEMOREX	057				STARCAST	041			
AMPLICA	050				FUJITSU	017	021	022	027	NEXTWAVE	028	124	125		SUPER GUIDE	020	124	125	
BIRDVIEW	051	126	129			133	134			NORSAT	069	070			TEECOM	023	026	075	087
BSR	053				GENERAL INSTRUMENT	003	004	016	029	PACE SKY SATELLITE	143					088	090	107	130
CAPETRONICS	053					031	059	101		PANASONIC	060	142				137			
CHANNEL MASTER	013 (	014	015	018	HITACHI	139	140			PANSAT	121				TOSHIBA	002	127		
	036 (	055			HOUSTON TRACKER	033	037	039	051	PERSONAL CABLE	117				UNIDEN	016	025	042	043
CHAPARRAL	008 (	009	012	077		057	104			PHILIPS	071					044	045	048	049
СІТОН	054				HUGHES	068				PICO	105					078	079	080	086
CURTIS MATHES	050	145			HYTEK	053				PRESIDENT	019	102				101			
DRAKE	005 (	006	007	010	JANIEL	060	147			PRIMESTAR	030	110	111		UNIDEN	135	136		
	011 (	052	112	116	JERROLD	061				PROSAT	072				VIEWSTAR	115			
	141				KATHREIN	108				RCA	066	106			WINEGARD	128	146		
DX ANTENNA	024 (	046	056	076	LEGEND	057				REALISTIC	043	074			ZENITH	081	082	083	084
ECHOSTAR	038 (	040	057	058	LG	001				SAMSUNG	123					091	120		
	093 (	094	095	096	LUTRON	132				SATELLITE SERVICE CO	028	035	047	057					
	097 (	098	099	100	LUXOR	062	144				085								
	122				MACOM	010	059	063	064	SCIENTIFIC ATLANTA	032	138							
ELECTRO HOME	089					065				SONY	103								

### Audio

Brand	Codes				Brand	Cod	es			Brand	Cod	es			Brand	Cod	es		
AIWA	014 0	)28	070	096	JVC	004	013	141		PHILIPS	026	112	143	253		147	218		
	125 1	29	139	229	KEC	185	186	187		PIONEER	039	042	043	063	TOSHIBA	137			
	230				KENWOOD	038	050	067	089		065	091	093	094	THE	061			
AKAI	163					170	171	197	206		115	123	127	250	VICTOR	088	131		
ANAM	003 0	)14	017	023		215	222			QUASAR	113				WARDS	089			
	059 1	06	189	216	KOHEL	030				RCA	080				YAMAHA	054	055	066	092
	217 2	235	236		NAD	045	046			RCX	092					199			
BURMECTER	252				LOTTE	014	016	036	098	REALISTIC	103	106							
CARVER	086					100	172	173	174	SAMSUNG	124	145	146	182					
CLARION	199					175	176	177	178		193	194	195	203					
DAEWOO	027 0	)53	060	084		179	180	181	183		204	244	245	246					
	102 1	48	198	221		201	202	208	213	SANSUI	011	135	138	144					
DENON	015 0	)75	130	143		214	219	223	232	SANYO	019	083	234						
FANTASIA	071					238	240			SCOTT	106	186							
FINEARTS	022				LXI	103				SHARP	031	032	051	052					
FISHER	089 C	99			MAGNAVOX	111					072	082	117	119					
LG(GOLDSTAR)	001 0	)21	024	029	MARANTZ	002	018	020	025		156	184	199	200					
	087 1	07	108	110		034	041	081	090		206	209							
	190 1	91	192	210		097	112			SHERWOOD	005	006	158						
	211 2	212	239		MCINTOSH	049				SONY	044	045	109	114					
HAITAI	034 0	)35	188	222	MCS	104					118	126	248	249					
HARMAN/KARDON	068				MEMOREX	107				TAEKWANG	012	020	073	074					
INKEL	037 C	)58	062	069	NAD	046					076	077	105	161					
	078 C	)79	095	121	ONKYO	013	040	041	047		162	163	164	165					
	122 1	49	150	151		048	056	057	132		166	167	168	169					
	152 1	53	154	155		133	140				205	231	233	242					
	157 1	58	159	160	OPTIMUS	158					254								
	189 2	207	222	224	PANASONIC	007	033	064	113	TEAC	010	085	106	136					
	225 2	26	227	243		142	220	241	251		185	187	237						
	247				PENNEY	104				TECHNICS	101	113	128	134					

### DVD

	Brand	Codes	Brand	Codes	Brand	Codes	Brand	Codes
	APEX DIGITAL	022	MAGNAVOX	013	PHILIPS	013	SONY	007
[1	DENON	020 014	MARANTZ	024	PIONEER	004 026	THOMPSON	005 006
	GE	005 006	MITSUBISHI	002	PROCEED	021	TOSHIBA	019 008
- þ	HARMAN KARDON	027	NAD	023	PROSCAN	005 006	YAMAHA	009 018
	JVC	012	ONKY0	008 017	RCA	005 006	ZENITH	010 016 025
[1	_G	001 010 016 025	PANASONIC	003 009	SAMSUNG	011 015		

#### Maintenance

Early malfunctions can be prevented. Please read pages 2, 3, and 4 in the front of the manual and follow the recommendations provided. Careful and regular cleaning can enhance the appearance of your new TV. Be sure to turn the power off and pull the plug out of the power outlet 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.

Troubleshooting

Some quick and easy tips to fixing problems yourself.

• Check to see if the TV/VCR button on your VCR has the TV selected.
<ul> <li>Check your antenna direction and/or location.</li> <li>Check your cable input.</li> <li>Make sure the cable from your antenna to your TV is connected properly.</li> </ul>
<ul> <li>The following may cause image problems or distortion:</li> <li>Electrical appliances, powerful lights, cars, trucks; computers or portable phones; medical equipment</li> <li>If possible increase the distance between your TV and the offending appliance or shut one of them off.</li> </ul>
<ul> <li>Check sound level.</li> <li>Make sure the TV sound is not muted.</li> <li>Try another channel. The problem may be with the broadcast, not your TV.</li> <li>Are the Audio cables connected properly?</li> <li>Are the wires for external speakers (if you have external speakers) connected properly?</li> <li>Make sure your speakers are turned on inthe Audio menu.</li> <li>If your audio mode is set to SAP, that channel may not have an SAP program.</li> </ul>
<ul> <li>Are you in TV or cable tuning mode, and should be in the other?</li> <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>
<ul> <li>Is the AC power cord plugged in?</li> <li>Check that your AC power outlet works. (Test it by plugging in something else or try another outlet.)</li> <li>Make sure your brightness and audio controls are set properly.</li> <li>Try another channel. The problem may be with the broadcast.</li> </ul>
<ul><li>Check the color settings in the Video menu.</li><li>Try another channel. The problem may be with the broadcast.</li></ul>
• The Caption option may be in Text mode. Select Caption 1, or OFF in the Captions/Text menu.
• 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 direct representation of film as you see it in the movies, you are actually seeing MORE of the program when you see those bars.
• If you forget the secret code, press the remote control Button '7', '7', '7' and '7' when the display asks you to enter the secret code.

Troubleshooting (Contd.)

is selected.       source equipment.         Weak or no Stereo Sound when using a stereo VCR.       • Check to see if all the connections are secure.         • Look in the Audio mode menu to see if all the settings are correct.       • You are using channel 3 or 4 to view your VCR. No stereo sound is present under that decision.         The PIP inset is black or lacks contrast.       • Check to be sure that the PIP source is turned on.         • You might want to adjust the PIP picture settings under the PIP menu.         • Check to see if your input source for PIP is set correctly.         • Check to see if the TV/VCR button on your VCR has the TV selected or change the PIP to another source.		
<ul> <li>when any non-cable source</li> <li>Make sure that the connections are secure on the back of your TV and on the source equipment.</li> <li>Weak or no Stereo Sound</li> <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> <li>The PIP inset is black or lacks contrast.</li> <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 to see if your input source for PIP is set correctly.</li> <li>Look to see if the TV/VCR button on your VCR has the TV selected or change the PIP to another source.</li> </ul>		
<ul> <li>when using a stereo VCR.</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> <li>The PIP inset is black or lacks contrast.</li> <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. <ul> <li>Look to see if the TV/VCR button on your VCR has the TV selected or change the PIP to another source.</li> </ul>	when any non-cable source	• Make sure that the connections are secure on the back of your TV and on the
lacks contrast.       • You might want to adjust the PIP picture settings under the PIP menu.         • You might want to adjust the PIP picture settings under the PIP menu.         • Check that all the wires are connected properly.         • Check to see if your input source for PIP is set correctly.         • Look to see if the TV/VCR button on your VCR has the TV selected or change the PIP to another source.		<ul> <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</li> </ul>
the source is Antenna. the PIP to another source.		<ul> <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> </ul>
• Reset clock manually.		• 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.

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 (Pr Pb Y)	Series of input jacks provided for extremely accurate picture reproduction yielding a higher quality pic- ture 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 (1s and 0s). This method allows for the signal to be manipulated to eliminate redundancy and 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. Port for DVI connector.
DTV	Digital television source, (set-top box).
DTV FORMATS 4801 480p 720p/1080i	Standard DTV format. Enhanced DTV format. (HDTV) High definition video formats.
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# Glossary (Contd.)

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, HDSTB) that the remote is controlling; remot operating mode.
MONO SOUND	Mono (monaural) sound is one channel of sound. On more than one speaker all the speakers play the same audio.
DUTPUT	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, DV 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.
	A high-resolution computer data format compatible with these TVs.

## **Product Specifications**

Models	RU-48SZ40					
	Horizontal Size (Inches) Height (Inches) Depth (Inches) Weight (lbs.)	45.5 32.9 15.3 68.3				
Power Requirement	AC 120V, 60Hz					
Television System	American TV Standard, NTS	C, ATSC with STB				
Television Channels	VHF: 2 - 13 UHF: 14 - 69 CATV: 1 - 125					
Power Consumption (W)	250W					
Antenna	75 ohm External Terminal for VHF/UHF					
Audio Output (W)	15W x 2					
Supplied Accessories	Remote control, 2 size AA b	patteries.				
External Input/Output Ports	Audio/Video inputs (3 sets) Audio/Video output (1 set) S-Video inputs (2) Component inputs (2 sets) RGB input (1) DVI input (1) RGB/DVI audio input (1 set Variable audio output (1 set Variable audio output (1 Calibration port (1) External Speaker output (1	:) :) set)				
<u>•</u> Design	and specifications are subject	to change without prior notice.				
GE 56						

#### (Warranty Contd.)

**CONCERNING PIXEL FUNCTIONALITY:** Your LCD Rear Projection Television contains about 921600 individual pixels. LCD Projection displays typically contain a small number of pixels that do not function normally. Your display has been inspected and is in compliance with manufacturer's specifications, indicating that any pixel defects do not effect the operation or use of your display.

READ YOUR OPERATING GUIDE CAREFULLY SO THAT YOU UNDERSTAND THE OPERATION OF YOUR LCD REAR PROJECTION DISPLAY AND HOW TO ADJUST THE CONSUMER CONTROLS.

IMPORTANT: Please fill out and mail in your Product Registration Card or go to www.lgservice.com to register your product online. This information allows us to reach you promptly should we discover a safety or reliability problem that could affect you.

#### CUSTOMER ASSISTANCE NUMBERS

To obtain customer assistance, product information, or Dealer or Service locations	Call 1-201-816-2000 24 hours a day, 365 days per year
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#### FOR SERVICE:

For warranty service information, please contact the LG®Brand Customer Support telephone number listed below.

When calling for service, please have your product model number, serial number and the date of purchase or the date of original installation available.

If a replacement unit is required, under some circumstances you may be asked to provide a reserve deposit to the LG®Brand Service Center against a credit card number as surety for advanced shipment. Your credit card will not be charged if you return the defective unit within 10 working days.

If a replacement unit is received, please use the carton and packaging from that unit in returning the defective unit to the LG®Brand Service Center.

Parts and service in accordance with the LG®Brand warranty is our responsibility and will be provided without charge. Other service requirements will be at the owner's expense. If you have problems in obtaining satisfactory warranty service, write or call the LG®Brand Customer Interactive Service.

To assure proper credit and avoid unnecessary charges, you must obtain a Return Authorization before returning any product to the Factory Service Center. Contact the number below or your authorized LG®Brand repair facility for details.

Before you call for warranty service, check your operating guide - you may avoid a service call.

LG Customer Interactive Center P. O. Box 240007 201 James Record Road Huntsville, Alabama 35824 ATTN: CIC

Telephone number: 1-201-816-2000 This number is a toll-free number Follow menu prompts when the call is answered

Web address: www.lgservice.com

Telephone Center Hours of Operation: 24 hours a day, 365 days per year

Service for your LG®Brand Rear Projection Television is provided through LG Electronics Alabama, Inc., the authorized LG®Brand Service Center for the United States.

LG®Brand LCD Rear Projection Televisions are marketed and distributed in the United States by LG Electronics Corporation, 201 James Record Road Huntsville, Alabama 35824.



#### LG<sup>®</sup> Brand LCD Rear Projection Television U.S. Limited Warranty

Your LG® brand LCD Rear Projection Television will be repaired or replaced as set forth below, if it proves to be defective in material or workmanship 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: In-Home Service is available on this Unit, as provided in this Warranty. Please retain dealer's LABOR: One Year from the Date of Purchase. Your unit will be repaired or dated bill of sale or delivery ticket as evidence of replaced with a new, substitute model or factory reconditioned unit, at the the Date of Purchase for proof of warranty, and manufacturer's option. If repair, parts used in the repair may be new or submit a copy of the bill of sale to the service perremanufactured. son at the time warranty service is provided. Parts, except for Halogen Bulb: One Year from the Date of Purchase. Please call Halogen Bulb: 90 Days from the Date of Purchase. 1-201-816-2000 Replacement Units and Repair Parts are warranted for the remaining portion To locate your nearest LG® Brand of the original unit's warranty period.

EFFECTIVE DATE OF WARRANTY: Your warranty period begins on the date of sale to the original consumer / end user. KEEP THE DEALER'S DATED BILL OF SALE OR PROOF OF DELIVERY as evidence of the purchase date. You will be required to submit a legible copy of your bill of sale or proof of delivery when requesting warranty service.

Authorized Service Center and to schedule a service appointment.

For further Instructions, see "For Service" below

THIS WARRANTY IS IN LIEU OF ANY OTHER WARRANTY, EXPRESS OR IMPLIED, INCLUDING WITHOUT LIM-ITATION, 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 EXPRESS WARRANTY PERIOD ABOVE. NEITHER THE MANUFACTURER NOR ITS U.S. DISTRIBUTOR SHALL BE LIABLE FOR ANY INCIDENTAL, CONSEQUENTIAL, INDIRECT, SPECIAL, OR PUNITIVE DAMAGES OF ANY NATURE, INCLUDING WITHOUT LIMITATION, LOST 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 limitations 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 vary from state to state.

### THIS LIMITED WARRANTY DOES NOT APPLY TO:

The cost of repair or replacement under these excluded circumstances shall be borne by the consumer.

P/N: 3828VA0480B

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