



DLP Projection TV OWNER'S MANUAL

**MODELS: RU-44SZ63D
RU-52SZ53D**

Please read this manual carefully before operating your set.
Retain it for future reference.
Record model number and serial number of the set.
See the label attached on the back cover and quote this
information to your dealer when 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.

COMPLIANCE:

The responsible party for this product's 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.



PORTABLE CART WARNING

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)

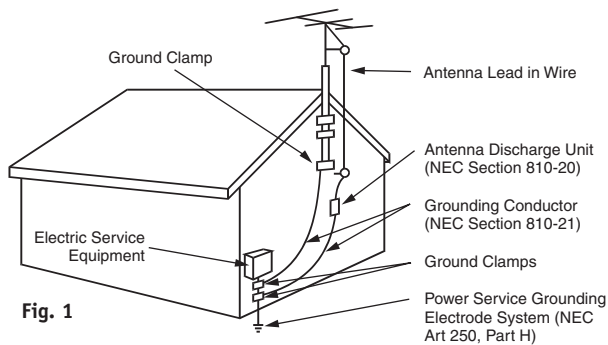
IMPORTANT SAFETY INSTRUCTIONS

(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



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:

- If the power-supply cord or plug is damaged.
- If liquid has been spilled, or objects have fallen into the product.
- If the product has been exposed to rain or water.
- 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.
- If the product has been dropped or the cabinet has been damaged.
- 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.

Table of Contents

| | | | |
|---|-------|--|-------|
| Safety Warnings | 2 | AUDIO Menu Options | 31-32 |
| Important Safety Instructions | 3-4 | TIME Menu Options | |
| Function Status Indicators | 6 | Auto Clock Setup | 33 |
| Step 1. Hook Up TV | | Manual Clock Setup | 34 |
| Rear Connections Panel | 7 | TV Turn Off Timer Setup | 35 |
| Front Connections Panel | 8 | TV Turn On Timer Setup | 36 |
| ANT/Cable Service Hookup | 9 | Sleep Timer Setup | 37 |
| Cable Box Connections | 10 | Auto Off | 38 |
| VCR Connections | 11 | SPECIAL Menu Options | |
| DVD Player | 12 | Aspect Ratio | 39 |
| RGB-DTV/DVI-DTV Input | 13 | On-Screen Menu Languages | 40 |
| RGB-PC/DVI-PC Input | 14 | Captions Setup | 41 |
| External Stereo Connections | 15 | Caption/Text Mode Selection | 42 |
| Home Theater: Speaker Layout | 16 | Key Lock | 43 |
| Monitor Out Setup | 17 | Cinema Mode Setup | 44 |
| Remote Control Functions in TV Mode | 18-19 | Demo (Menu Review) | 45 |
| On-Screen Displays | 20 | LOCK Menu Options | |
| Front Panel Controls | 21 | Parental Lock Setup | 46 |
| Step 2. Customize your TV's Features | | Parental Lock (Ratings Overview) | 47 |
| SETUP Menu Options | | Step 3. Miscellaneous | |
| EZ Scan (Channel Search) | 22 | Programming the Remote | 48 |
| Channel Add/Delete/Surf Setup | 23 | Programming Codes | 49-52 |
| Channel Labels Setup | 24 | Maintenance | 53 |
| Main Picture Source Selection | 25 | Troubleshooting | 54-55 |
| PIP (Picture-in-Picture) / Twin Picture Operation | 26 | Glossary | 56-57 |
| POP (Picture-outside-Picture) | 27 | Product Specifications | 58 |
| Booster | 28 | Warranty | 59-60 |
| VIDEO Menu Options | 29-30 | | |

Setup Checklist

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

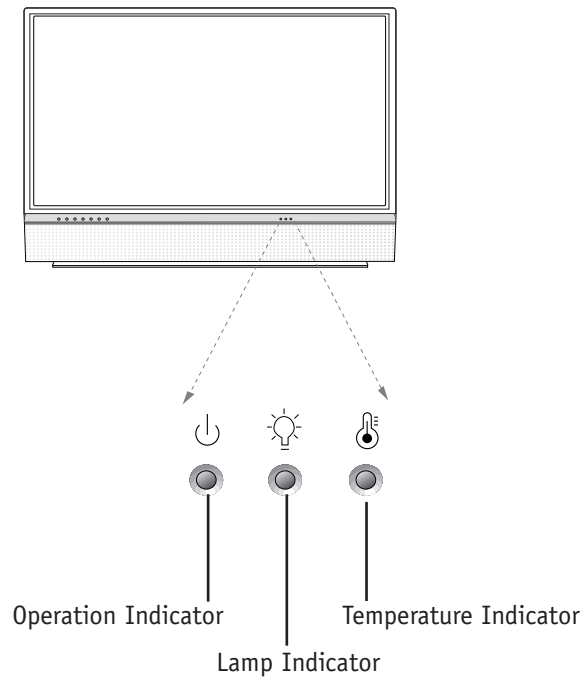
Step 2. Install batteries in remote control and do a channel search.
See page 22.

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

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

Function Status Indicators

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

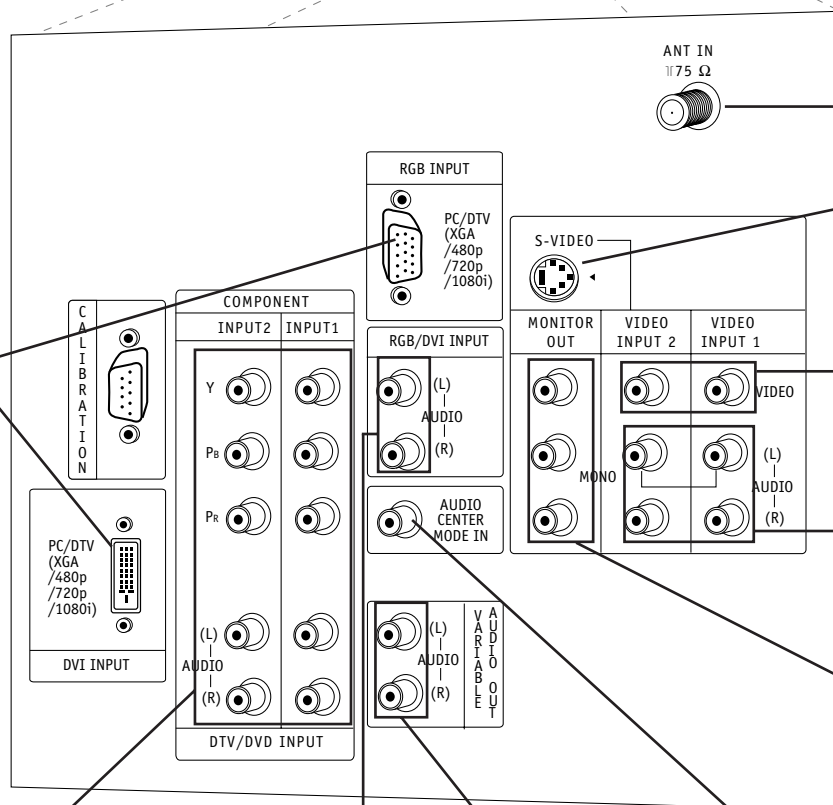
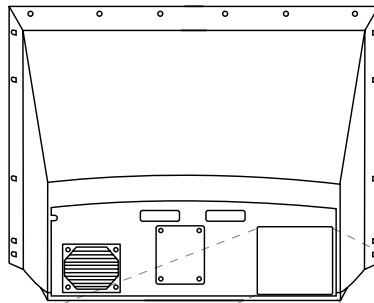


| | | |
|-----------------------|-------------------|---|
| Operation Indicator | ff | Power cord is not connected. |
| | Red | Power Cord is connected, TV is in standby mode. |
| | Green | TV turns on. |
| | Orange (flashing) | Preparing operation in standby mode. |
| Lamp Indicator | Orange | Projection lamp is reaching the end of its life and needs to 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. |
| Temperature Indicator | Orange | The projection TV is overheating. Check the blocked vents of 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. |

Rear Connections Panel

Connecting cables and external equipment to your TV.

This manual explains the features available on the RU-44SZ63D TVs.



RF Connector: Antenna
Used to connect analog cable or antenna signals to the television, either directly or through your cable box.

S-VIDEO In
A connection available with some high-end equipment that provides even better picture quality for Video 2.

Video 1 or 2
Connects the video signals from various types of equipment.

Left/Right Audio
Used for stereo sound from various types of equipment.

Monitor Out
Connects to a second TV or Monitor.

PC and HD-STB Input
Used to connect from a PC source or HD-STB Satellite system.

Y, Pb, Pr DVD Component Video and HD Component Video
Some top-of-the-line DVD players use what is called "component video," for extremely accurate picture reproduction. Refer to your DVD manual for further information.

PC and HD-STB Audio Input
Used for audio connections from a PC source or HD-STB Satellite system.

Variable Audio Out
Used to connect either an external amplifier, or add a sub-woofer to your surround sound system.

Audio Center Mode In
Connect to external Dolby Digital Center "preamp output."

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.

Front 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 front connection panel.

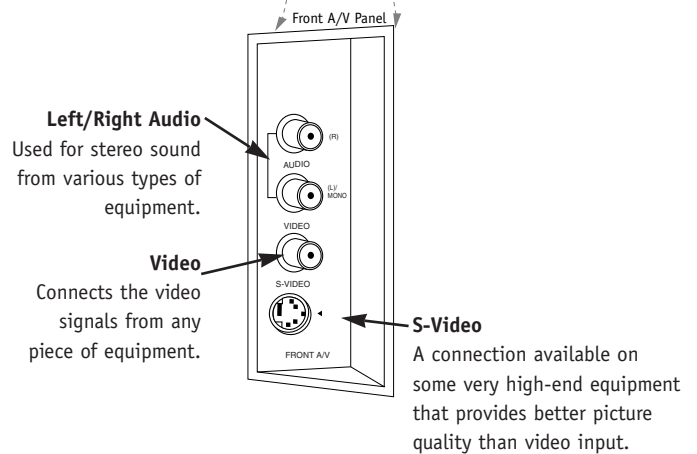
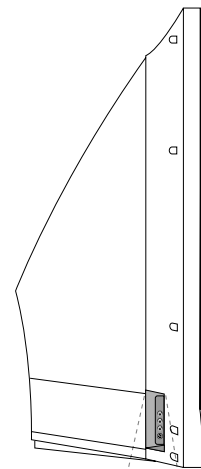
To use the front jacks as the signal source, select them using Main Input menu as described on page 25. They will be named "Front Video" in the Main Input menu.



If you input both Front 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).

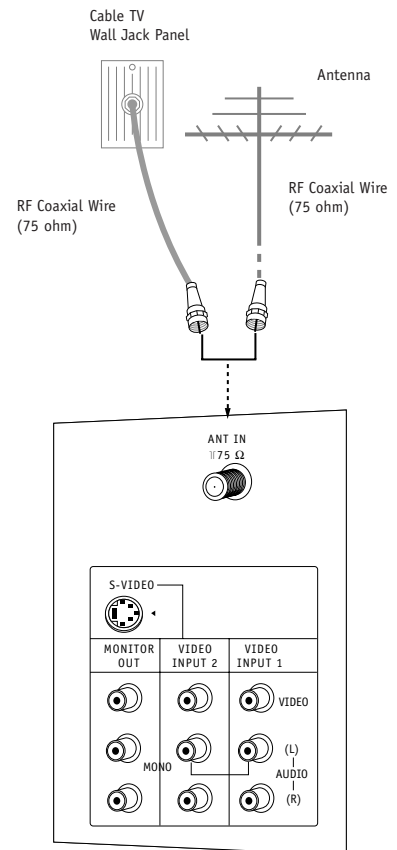
ANT / Cable Service Hookup

1

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

2

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.

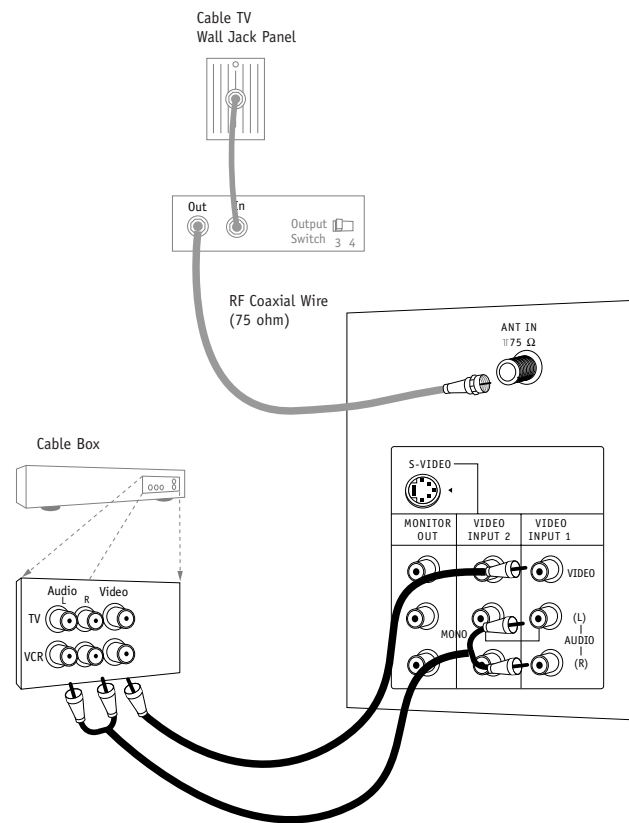
For best signal reception, it is recommended to have your Antenna professionally adjusted.

Cable Box Connections

1

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.

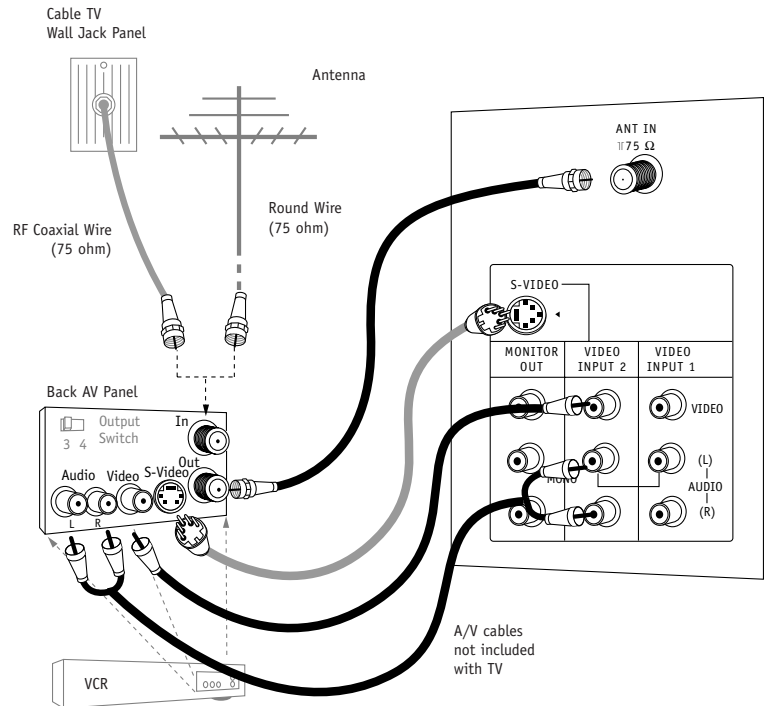
VCR Connections

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.



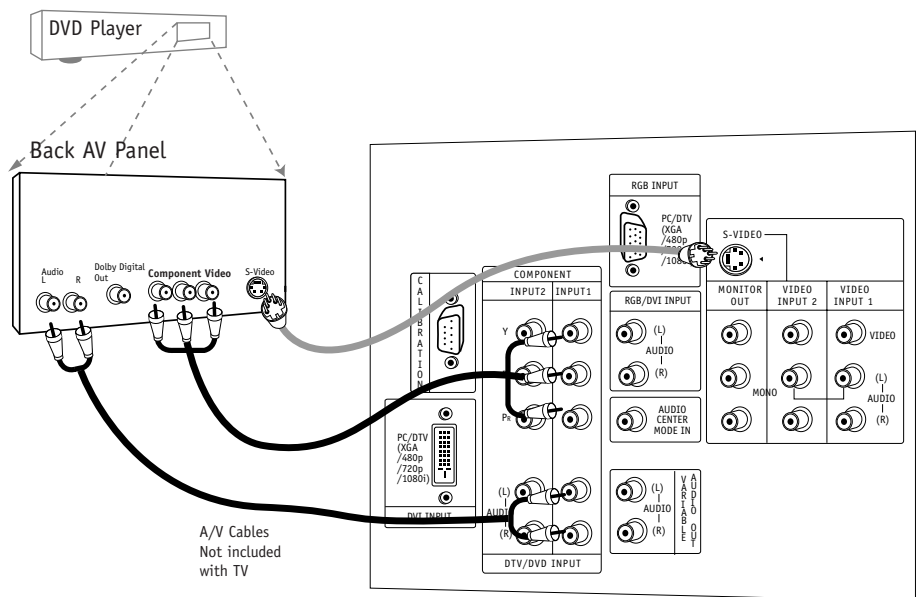
After connecting external equipment to the TV, don't display a still picture for a long time on the screen. Doing so may damage the TV screen.

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 | P _B | P _R |
|------------|----------------|----------------|
| 1920X1080i | | |
| 1280X720p | | |
| 720X480p | | |
| 720X480i | | |

• Component Input ports

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

| | | | |
|--------------------------------------|---|----------------|----------------|
| Component input jacks on the Monitor | Y | P _B | P _R |
| Video output jacks on DVD player | Y | P _b | P _r |
| | Y | B-Y | R-Y |
| | Y | C _b | C _r |
| | Y | P _B | P _R |

Mini glossary

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

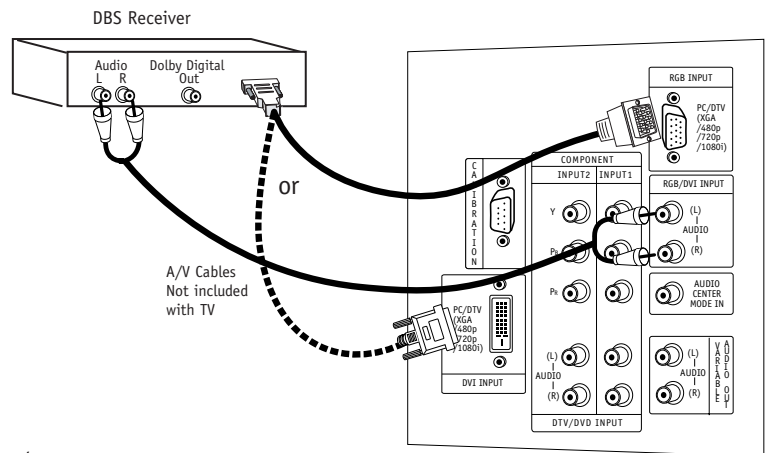
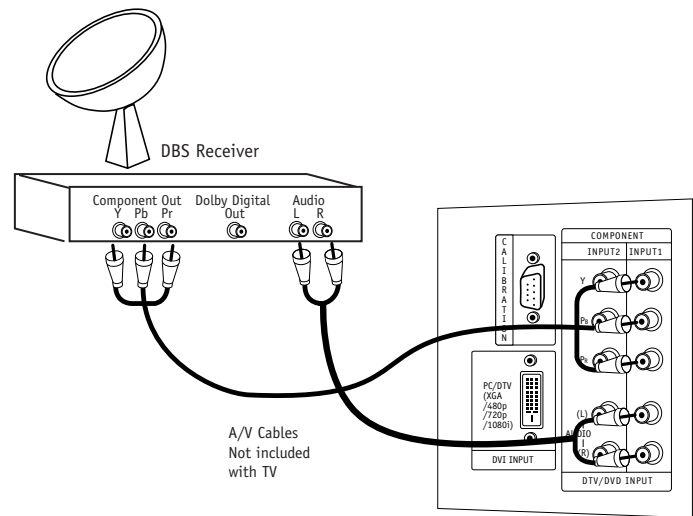
RGB-DTV/DVI-DTV Input

1

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.

2

Connect these cables to your TV as shown.



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

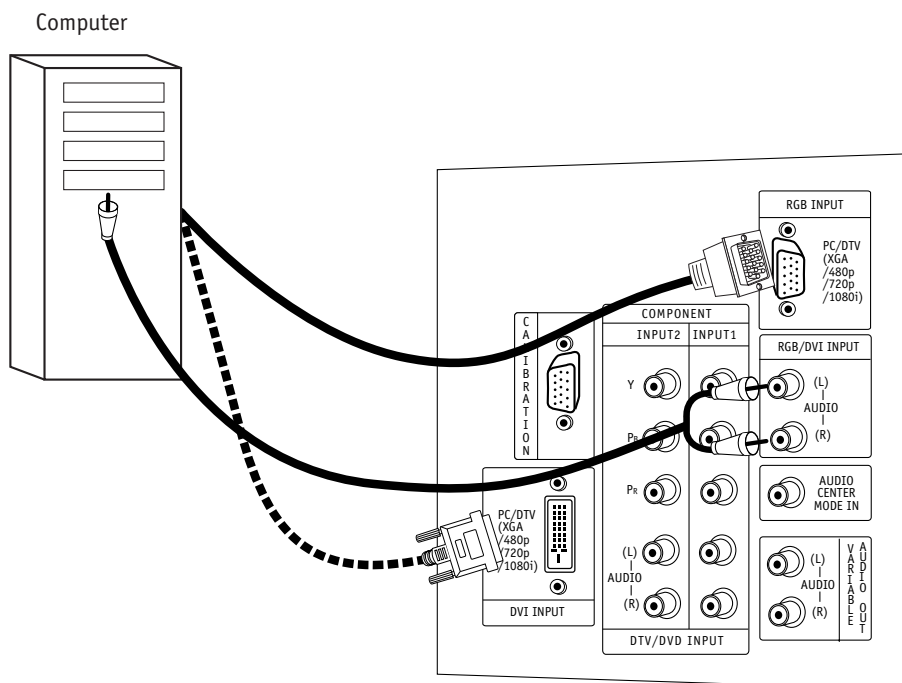
| |
|-------------------|
| HD-SET TOP |
| 1920x1080i |
| 1280x720P |
| 720x480P |

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

RGB-PC/DVI-PC Input

1 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.

2 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 ~ + 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.

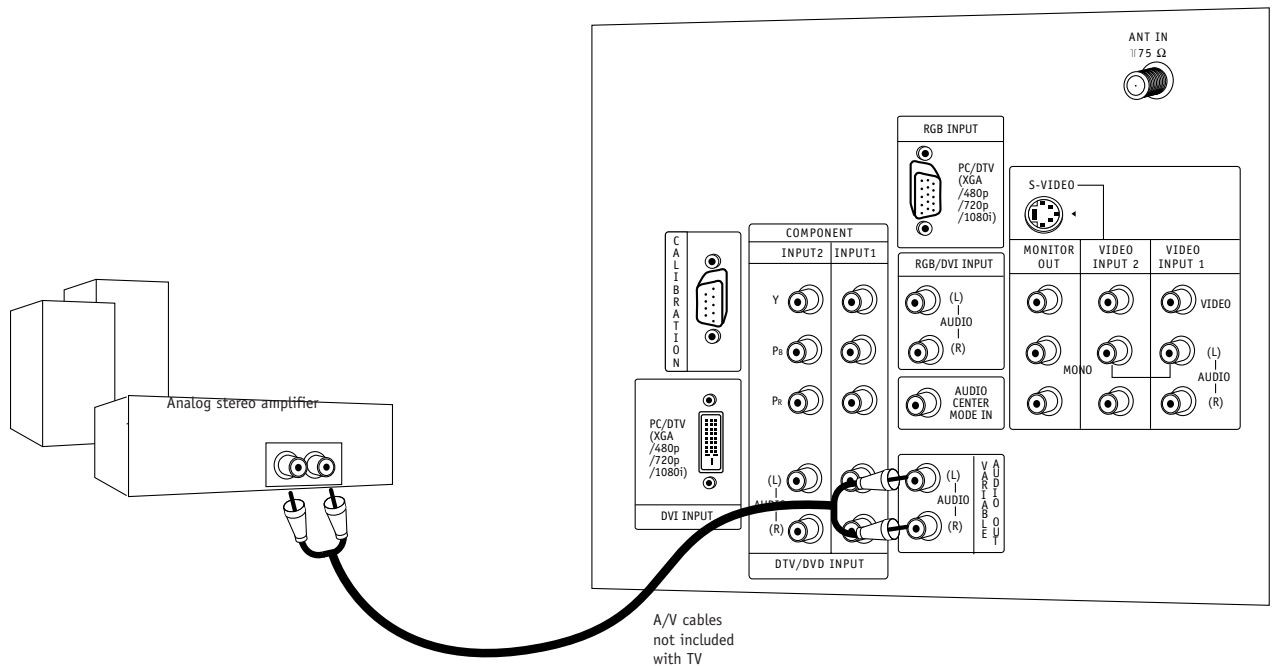
RGB-PC/DVI-PC Input

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

External Stereo Connections

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

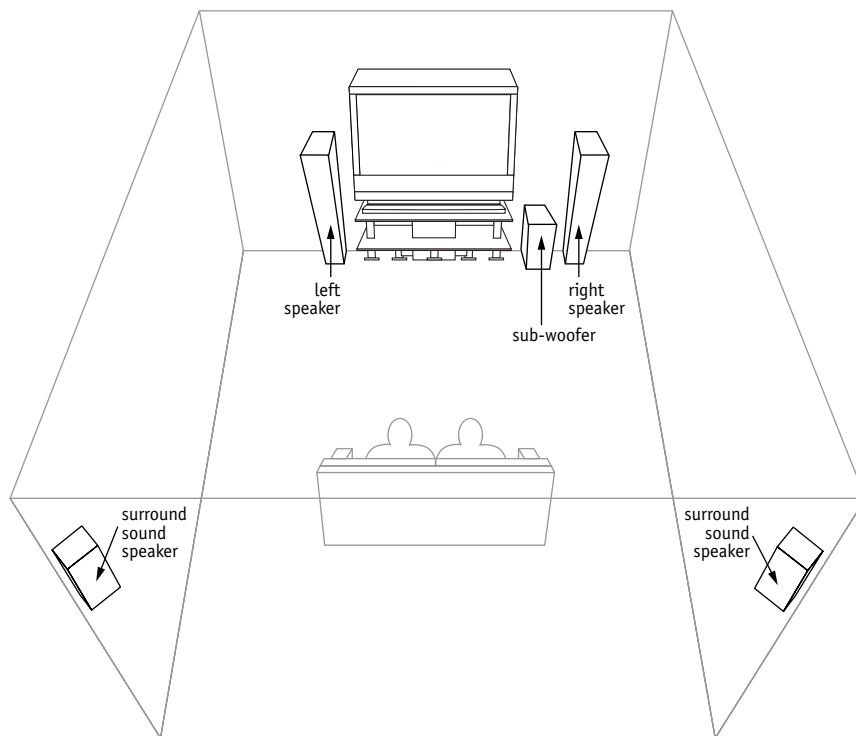
- 1 Locate both Variable Audio Out jacks on the back of your TV and the Left/Right audio input jacks on the back of your stereo's amplifier.
- 2 Connect these jacks, making sure that they are connected correctly. (red=Right, white=Left.)
- 3 Adjust the sound on your stereo, according to directions provided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

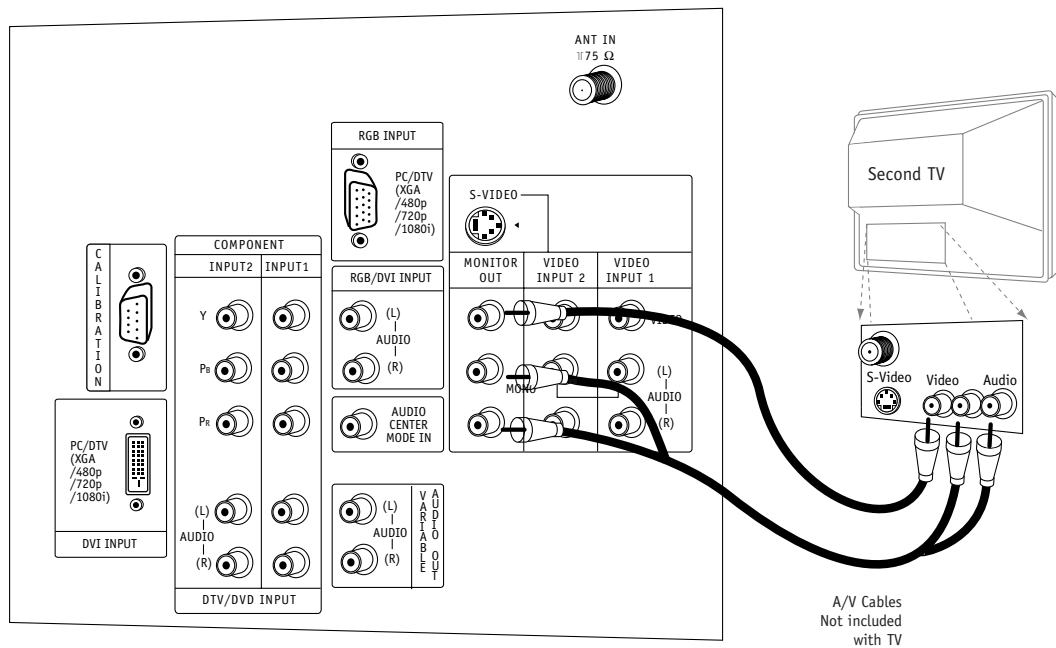
Monitor Out Setup

1

Your TV has a special signal output capability which allows you to hook up a second TV or monitor.

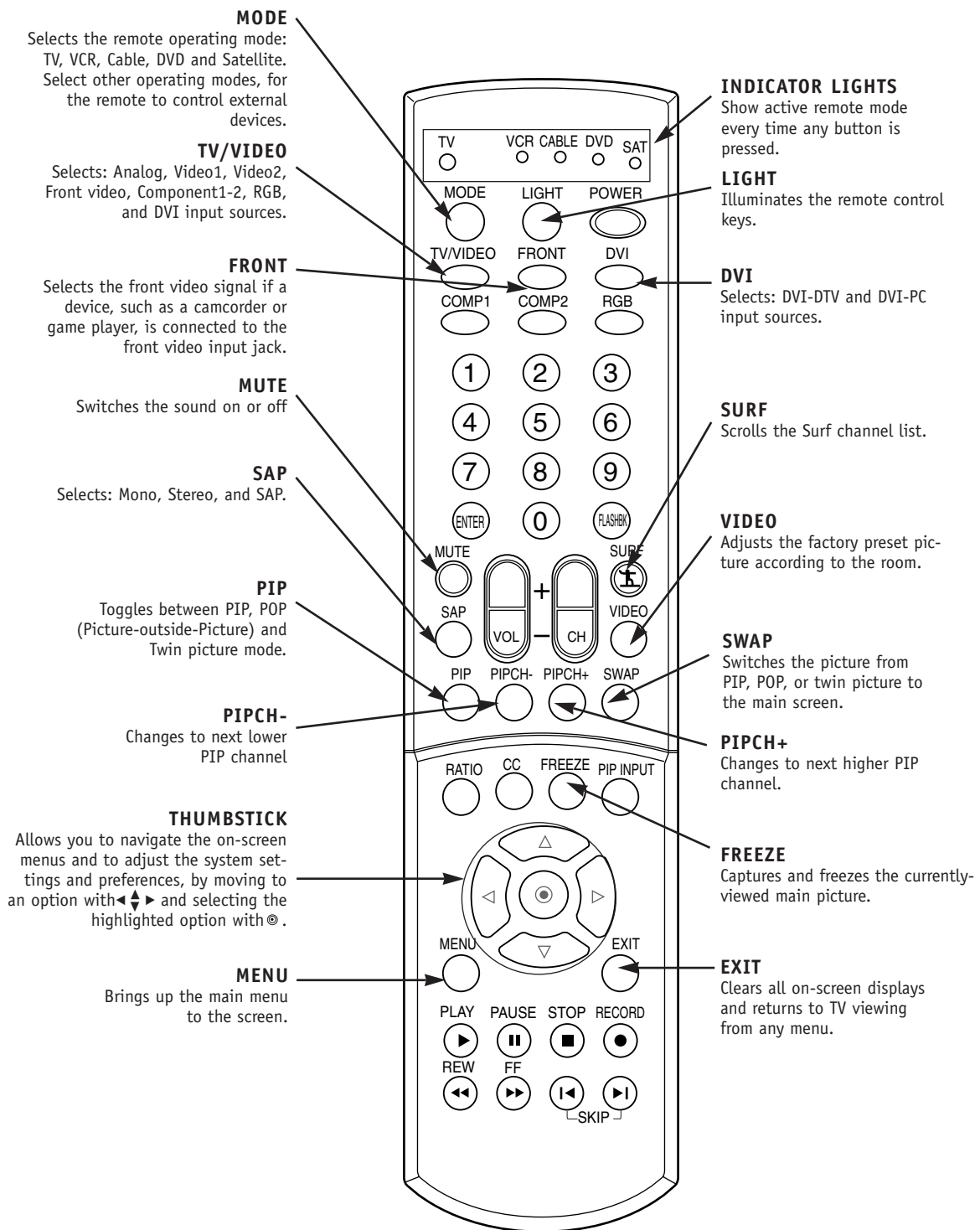
2

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.

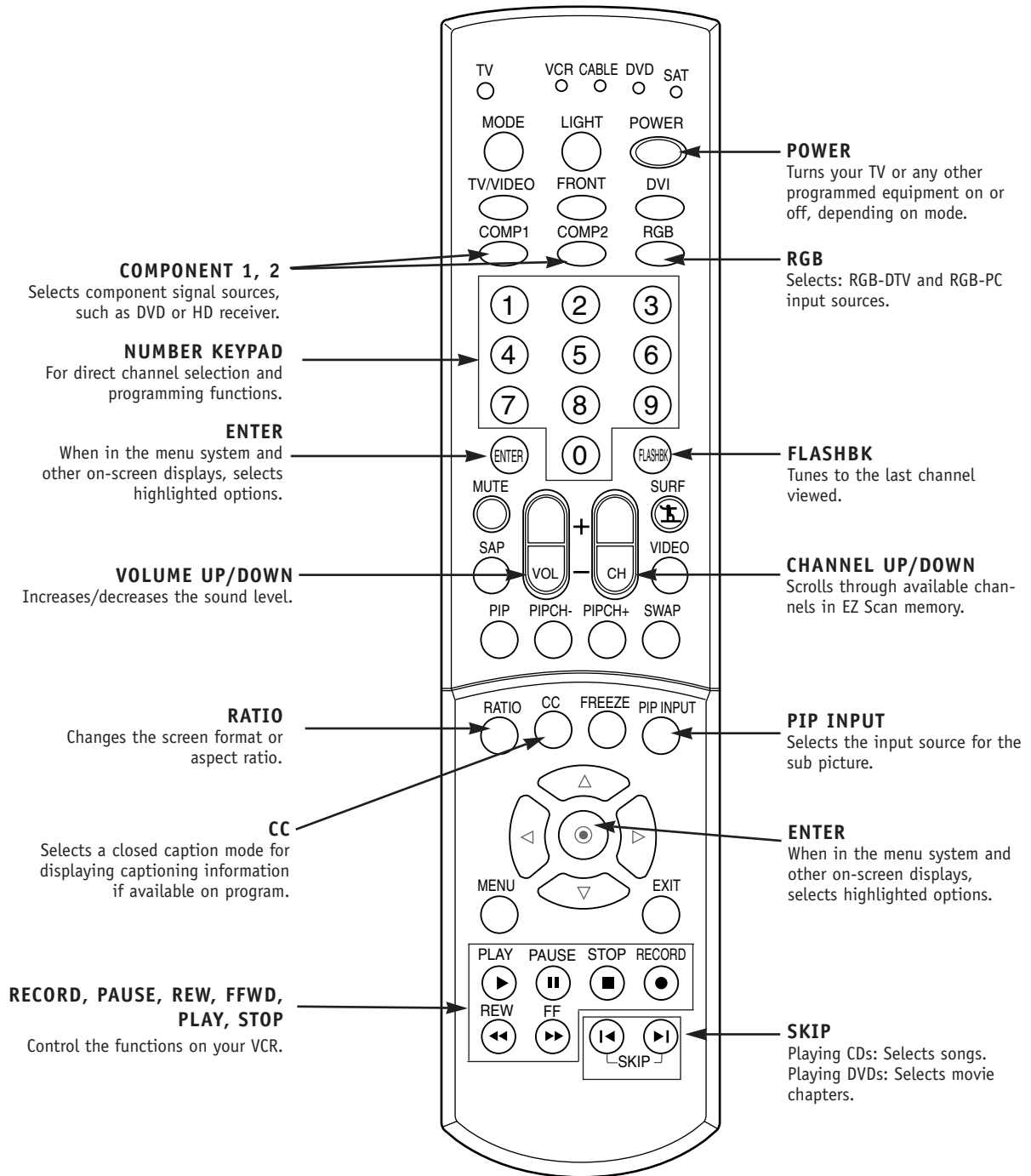


Component 1 - 2, RGB-DTV/PC, and DVI-DTV/PC input sources for main picture cannot be used for Monitor Out.

Remote Control Functions in TV Mode

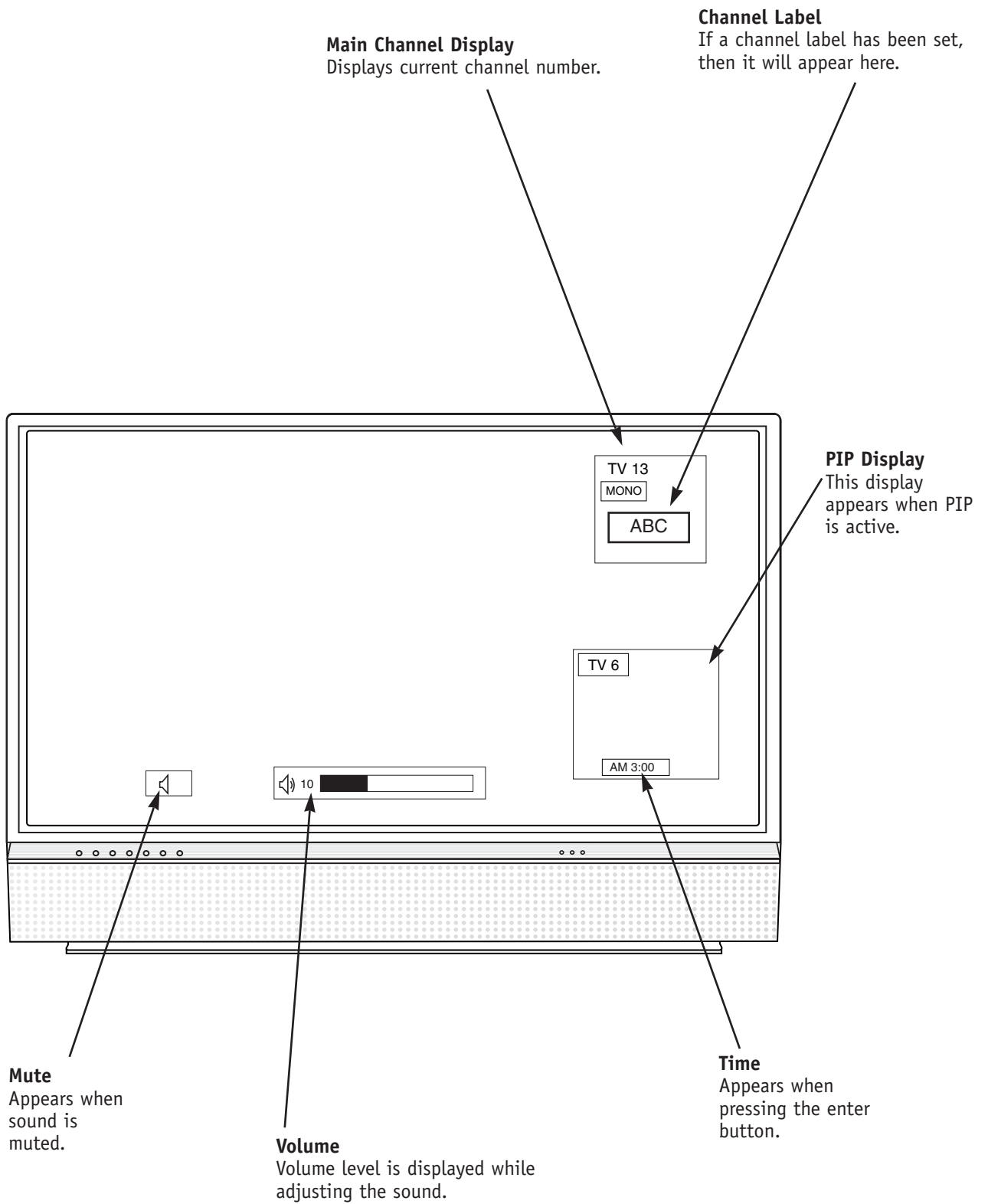


Remote Control Functions in TV Mode

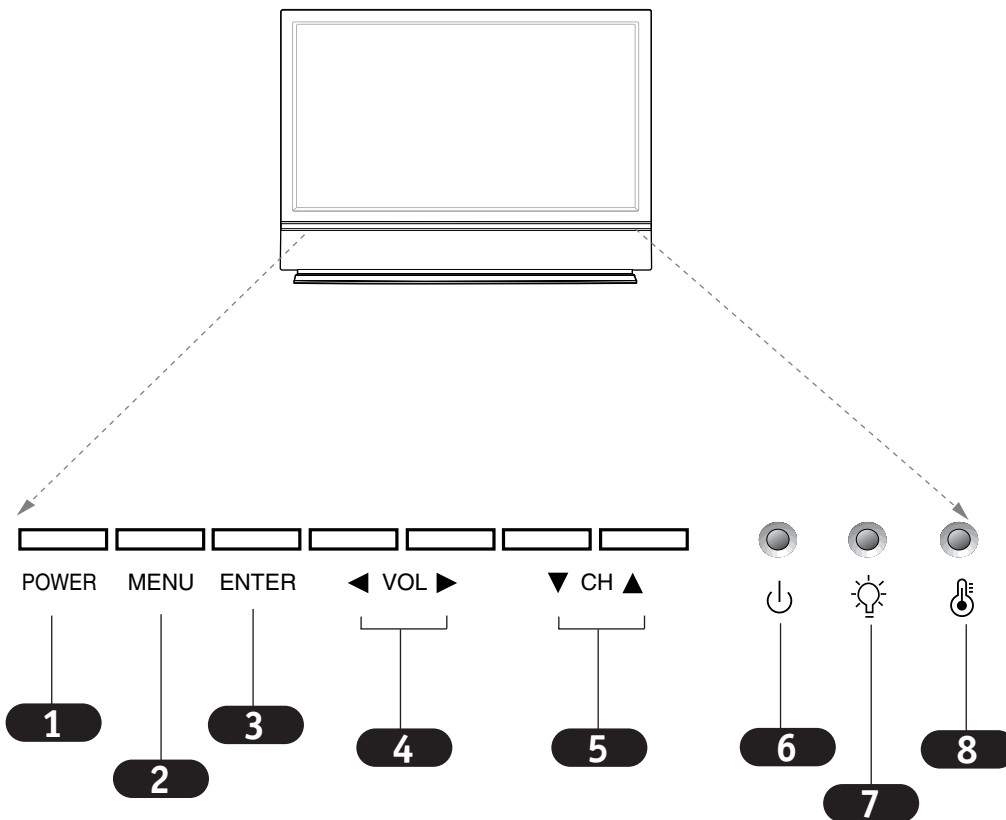


On-Screen Displays

This page describes your on-screen display and information banner options.



Front Panel Controls



- 1** POWER
- 2** MENU
- 3** ENTER (Same as ENTER button on your remote control)
- 4** VOLUME UP / DOWN
- 5** CHANNEL UP / DOWN
- 6** Operation indicator. (See page 6).
- 7** Lamp indicator. (See page 6).
- 8** Temperature indicator. (See page 6).



See menu pages for instructions on using the on-screen menus.



The POWER, CHANNEL, TV/VIDEO, and VOLUME buttons work just as they do on your remote control.

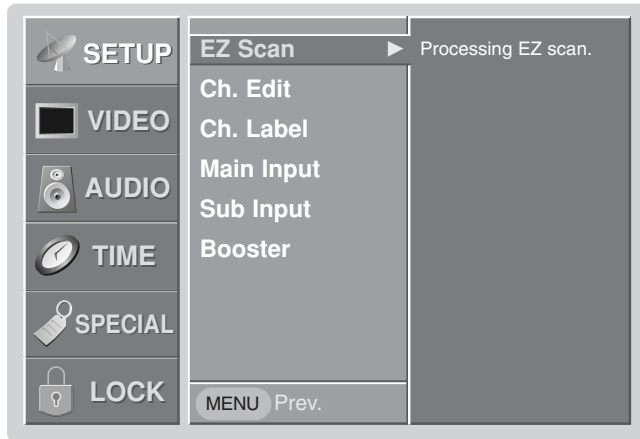


If TV is moved from cold to normal room temperature, humidity may form inside TV, wait 3 hours for TV to adjust to room temperature before turning it on.

- This manual explains the features available on the RU-44SZ63D TVs.

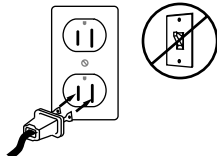
EZ Scan (Channel Search)

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.



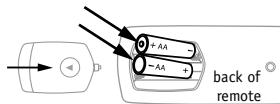
1

Refer to pages 7-17 to connect external equipment to your TV. If you have done so, plug in your TV to a standard (non-switched) 120V 60Hz power outlet.



2

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).



3

With the remote control in hand, press the POWER button to turn your TV on.

4

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

5

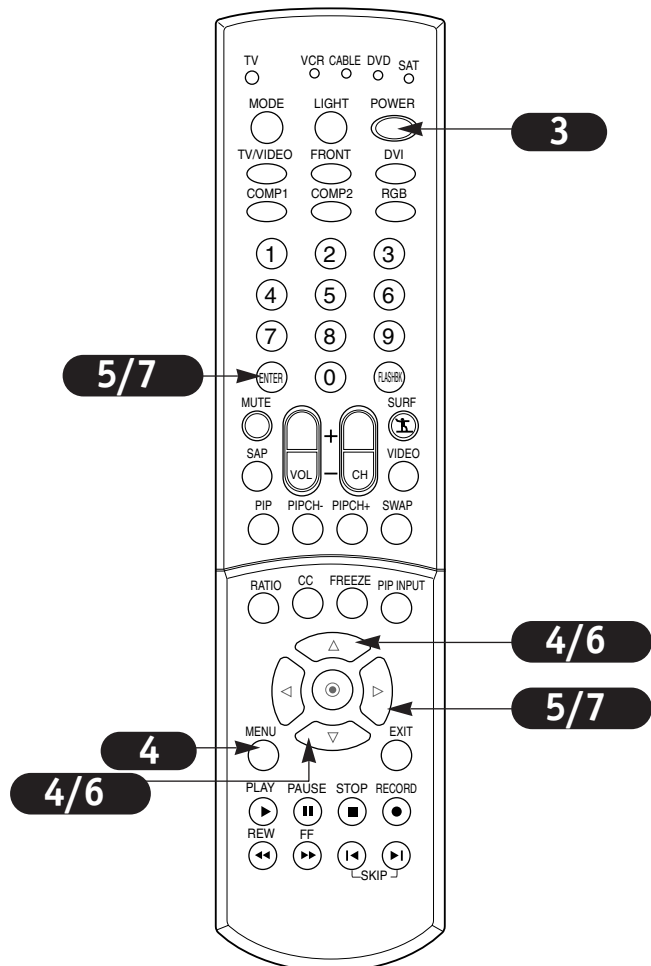
Press ENTER or the RIGHT arrow button to access the Setup menu.

6

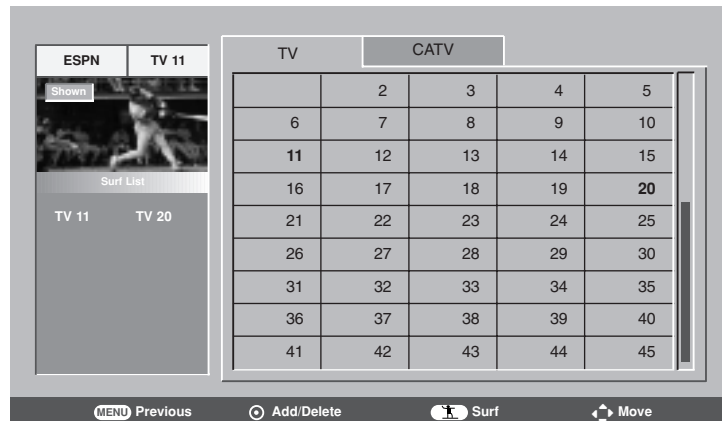
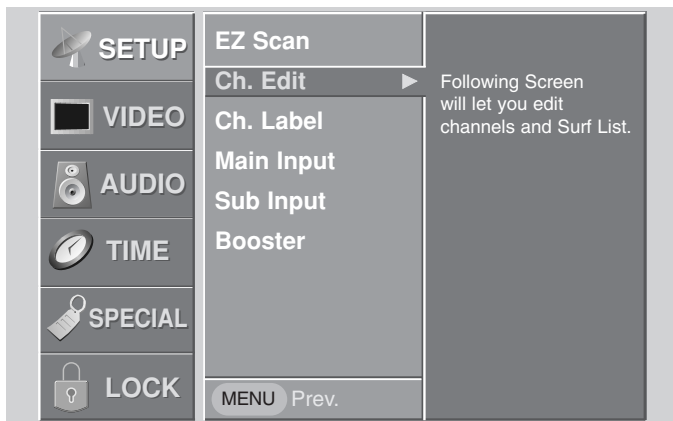
Use the UP/DOWN arrow to select EZ Scan.

7

Press ENTER or the Right arrow button to start the EZ Scan channel search.



Channel Add / Delete / Surf Setup



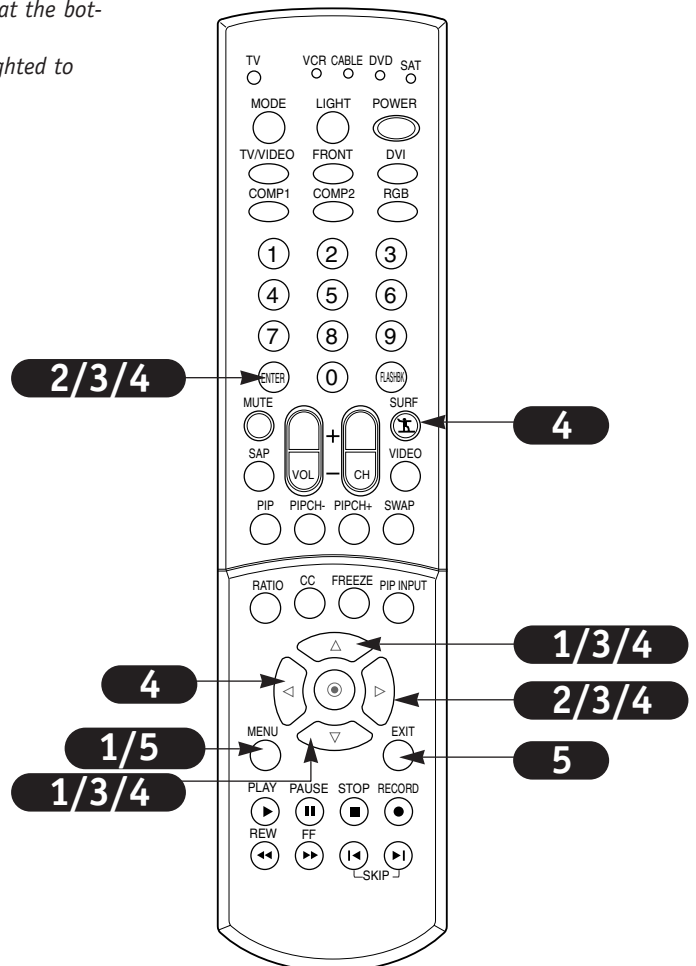
Create two different types of channel lists in memory: "Custom list" and "Surf list".

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

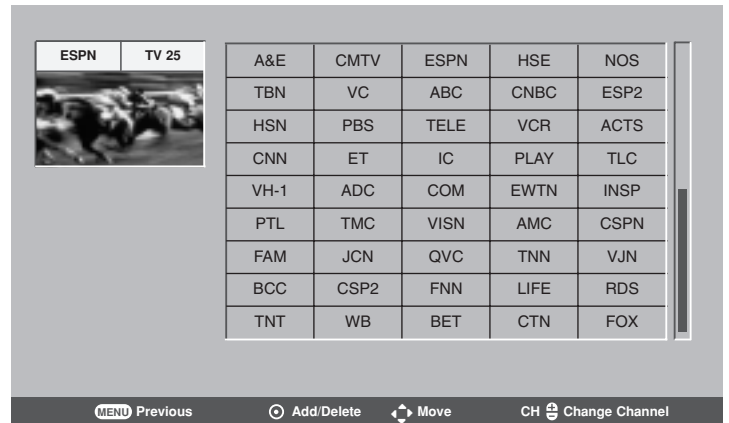
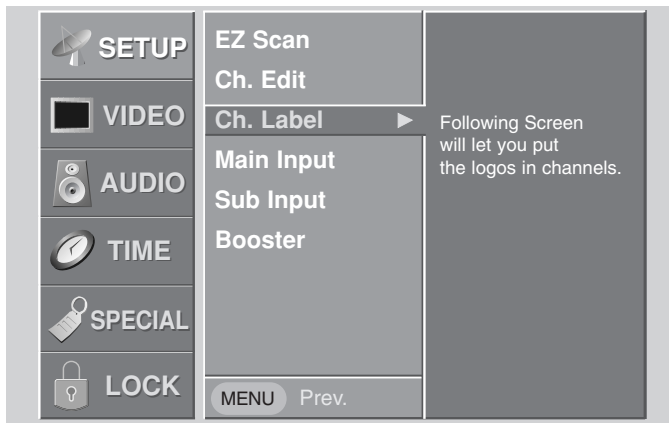
You can create your own Surf list with up to 16 channels. It appears at the bottom-left corner of the screen.

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

- 1** Press the MENU button on the remote control, then use the UP/DOWN arrow button to select the Setup menu.
- 2** Press ENTER or the RIGHT arrow button to access the Setup menu.
- 3** Use the UP/DOWN arrow to select Ch.Edit and then press ENTER or right arrow.
- 4** 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.
- 5** Press EXIT to save and return to TV viewing or press MENU to save and return to the previous menu.



Channel Labels Setup



1

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

2

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

3

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

4

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

5

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.

6

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.

7

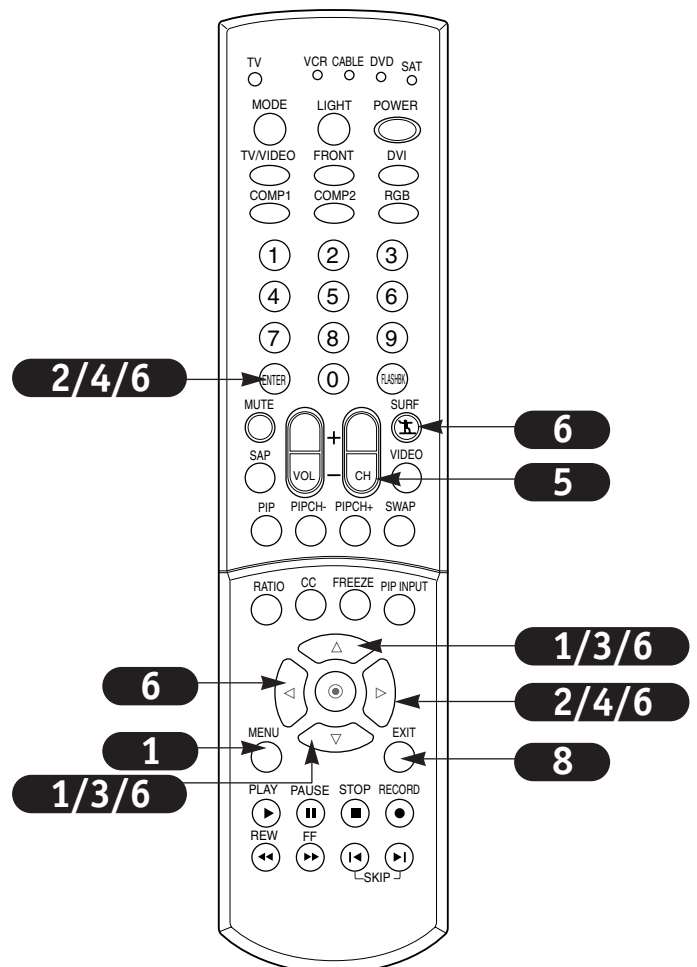
Repeat 5 and 6 steps until all channels are Labeled.

8

Press EXIT to save and return to TV viewing.

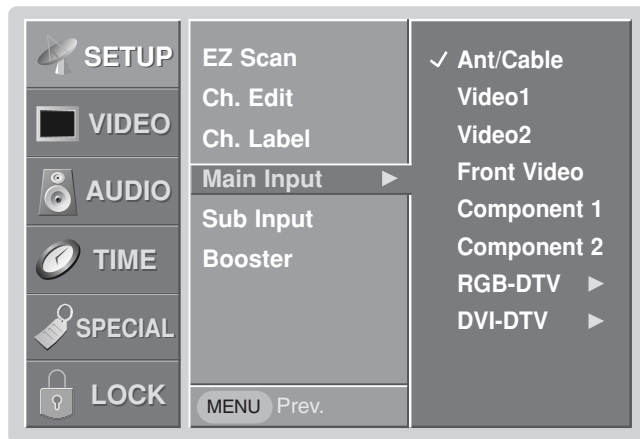
Choose preset labels for your channels.

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.

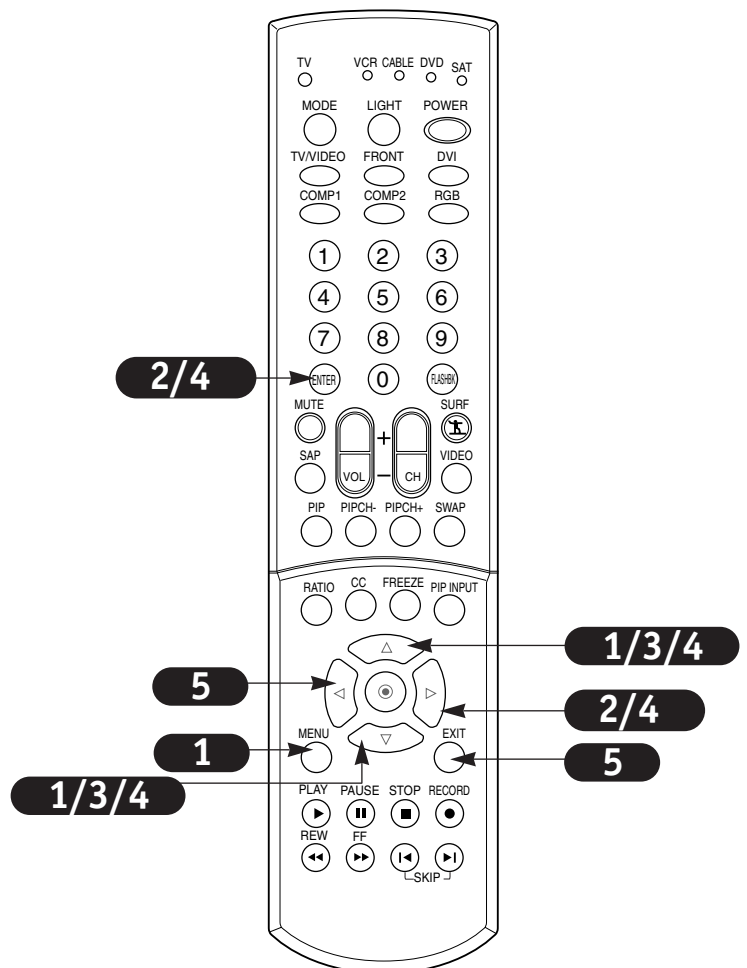


Main Picture Source Selection

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.



- 1** Press the MENU button on the remote control, then use the UP/DOWN arrow button to select the Setup menu.
- 2** Press ENTER or the RIGHT arrow button to access the Setup menu.
- 3** Use the UP/DOWN arrow to select Main Input.
- 4** Press ENTER or the RIGHT arrow to access the Main Input menu, then use the UP/DOWN or RIGHT arrow button to select a source. Your Main picture source options are : Ant/Cable, Video 1, Video 2, Front Video, Component 1, Component 2, RGB-DTV, RGB-PC, DVI-DTV, or DVI-PC.
- 5** 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.

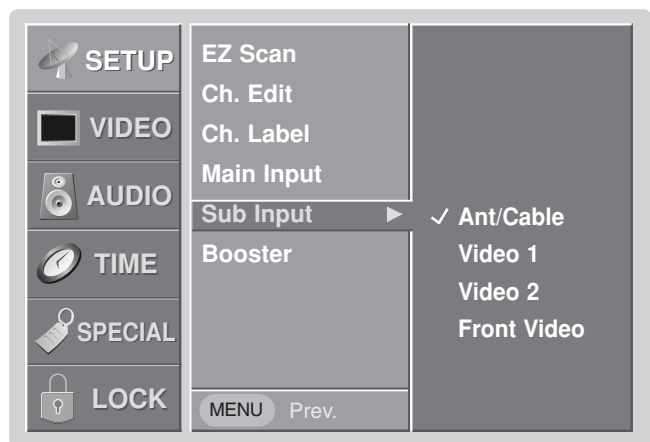


PIP / Twin Picture Source Selection

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

- 1** Press the MENU button on the remote control, then use the UP/DOWN arrow button to select the Setup menu.
- 2** Press ENTER or the RIGHT arrow button to access the Setup menu.
- 3** Use the UP/DOWN arrows to select the Sub Input option.
- 4** 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, Front Video.
- 5** Press EXIT to save and return to TV viewing or press the LEFT arrow to save and return to the previous 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.

Using the PIP INPUT button on the remote control

- 1** 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 Front Video.

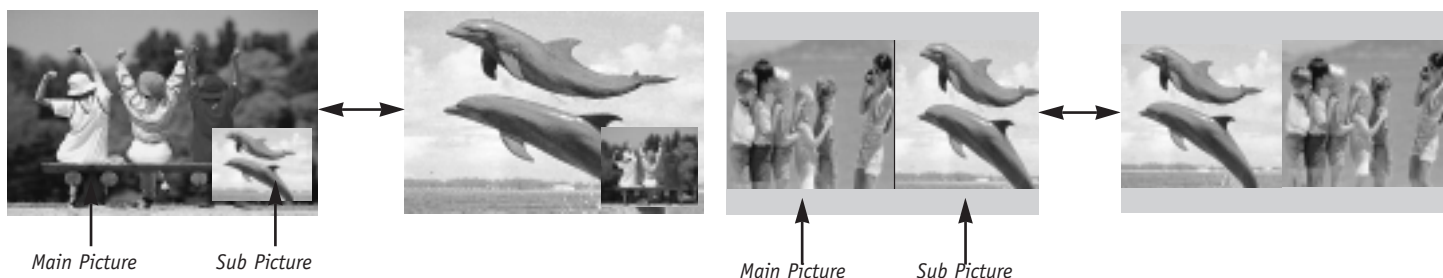
PIP (Picture-in-Picture) / Twin Picture Operation

Selecting PIP / Twin Picture Channels

- 1 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.
- 2 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 front 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.

- 1 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.)



- 2 Press the EXIT button to exit POP mode.

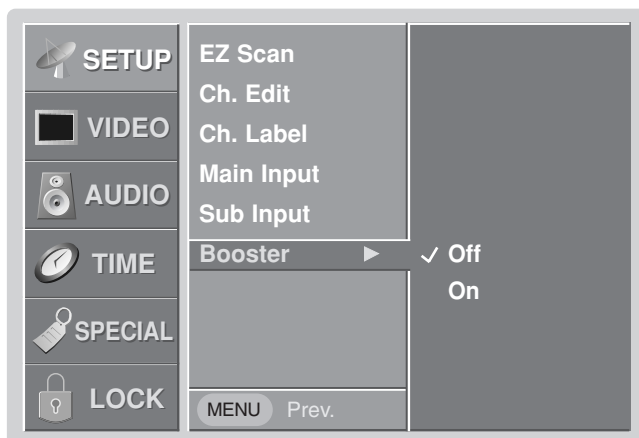


Run EZ Scan channel search before using POP mode.

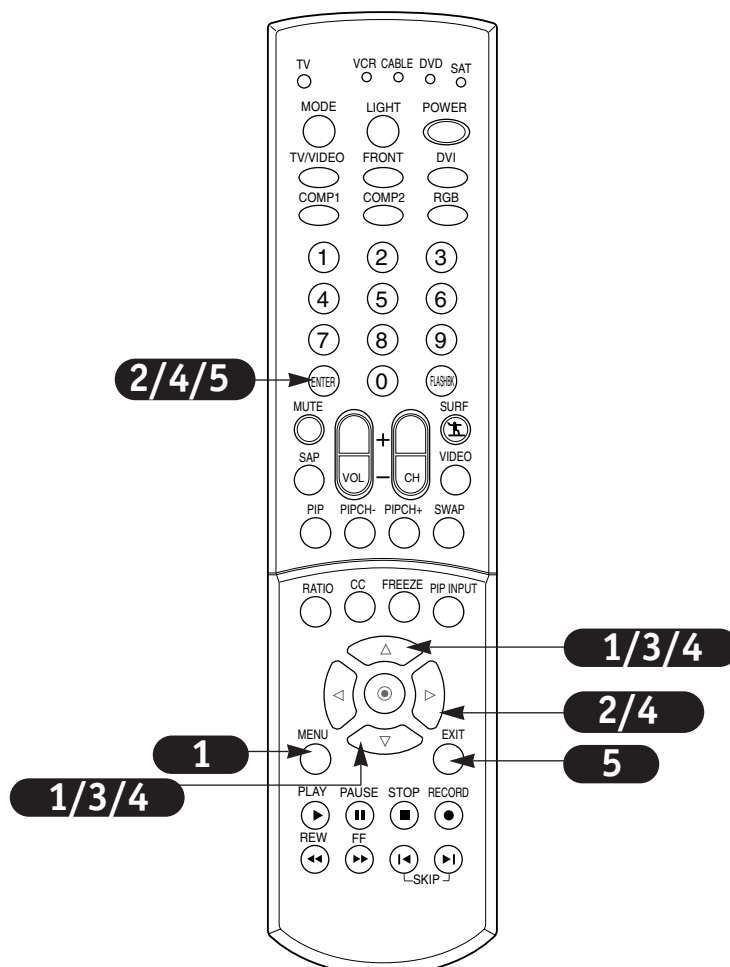
Booster

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.

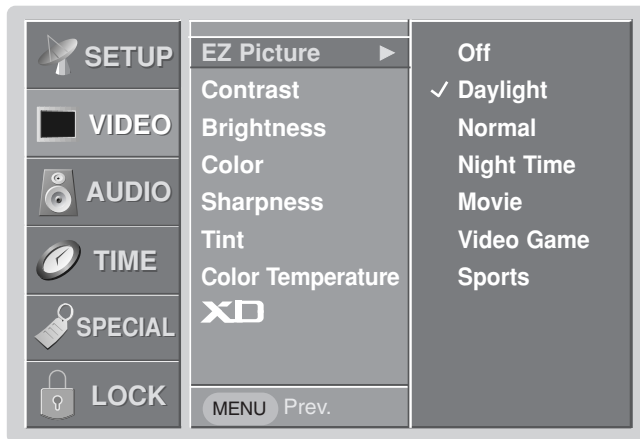


- 1** Press the MENU button on the remote control, then use the UP/DOWN arrow button to select the Setup menu.
- 2** Press ENTER or the RIGHT arrow button to access the Setup menu.
- 3** Use the UP/DOWN arrow to select Booster.
- 4** Press ENTER or the RIGHT arrow to access the Booster menu, then use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



Video Menu Options

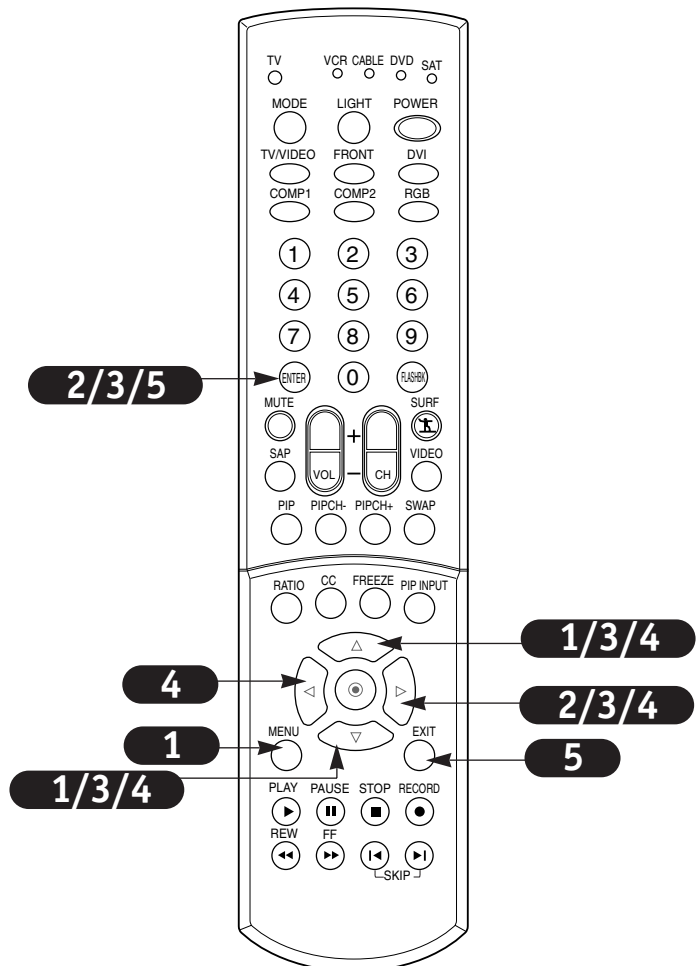
Adjust the picture appearance to suit your preference and viewing situations.



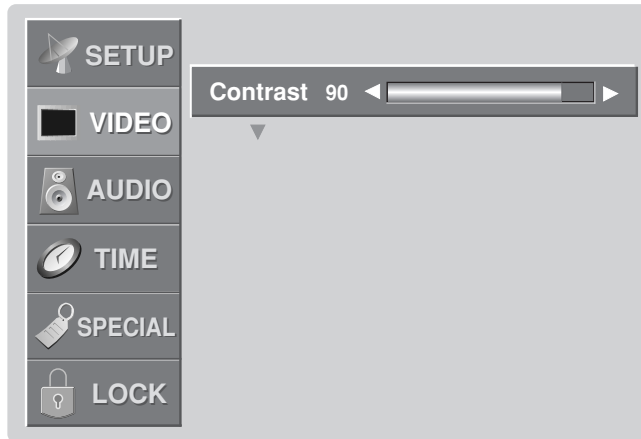
You can manually adjust the levels for the picture quality settings, such as Contrast, Brightness, Color, etc.

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

- 1** Press the MENU button on the remote control, then use the UP/DOWN arrow button to select the Video menu.
- 2** Press ENTER or the RIGHT arrow button to access the Video menu.
- 3** 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 XD. Then press ENTER or the Right arrow button.
- 4** 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, XD).
- 5** Press EXIT to save and return to TV viewing or press the ENTER button to save and return to the previous menu.



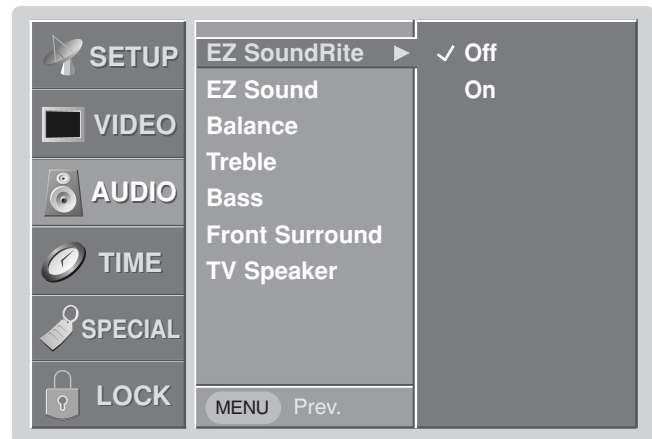
Video Menu Options



- **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.
- **XD** LG electronic's unique picture improving technology to display a real HD source through an advanced digital signal processing algorithm.

Audio Menu Options

Adjust the sound to suit your taste and room situations.



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

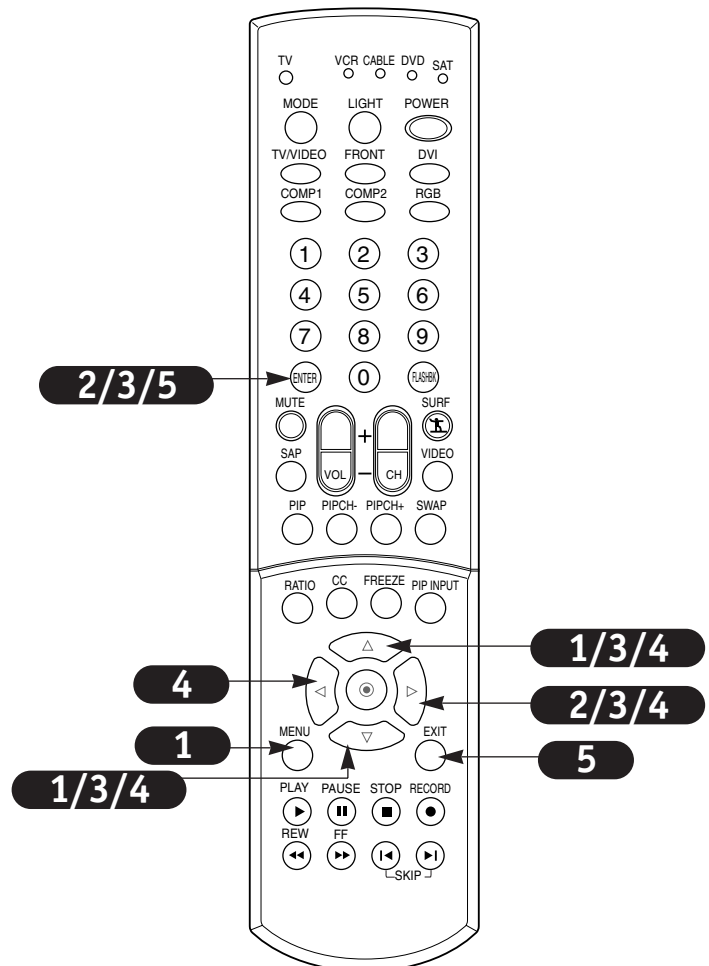
2 Press ENTER or the RIGHT arrow button to access the Audio menu.

3 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.

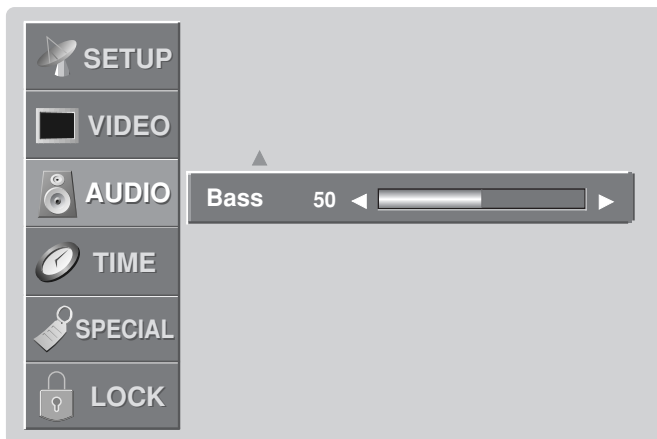
4 Use the LEFT/RIGHT arrows to adjust the option to your preference (Balance, Treble, Bass).

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

5 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

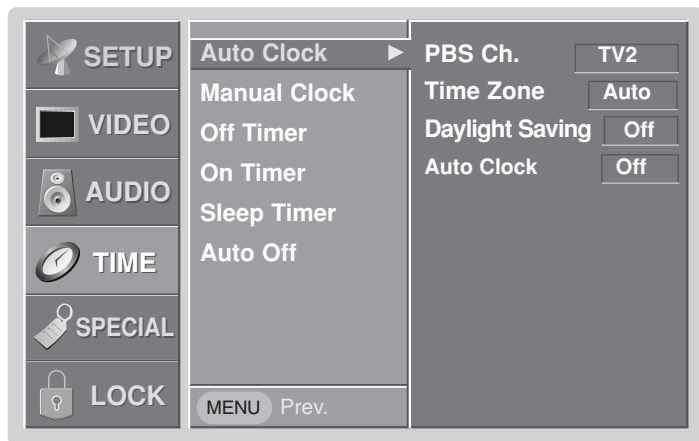


- **EZ SoundRite** Scans for changes in the sound level during commercials, then adjusts the sound to match the current audio level of the TV program you are watching.
- **EZ Sound** Chooses the sound options manually.
 - Off** Lets you adjust the Audio menu sound options manually.
 - Normal** Restores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

Auto Clock Setup

Sets the time automatically from the PBS broadcast signal.

The PBS channel signal includes information for the correct time.



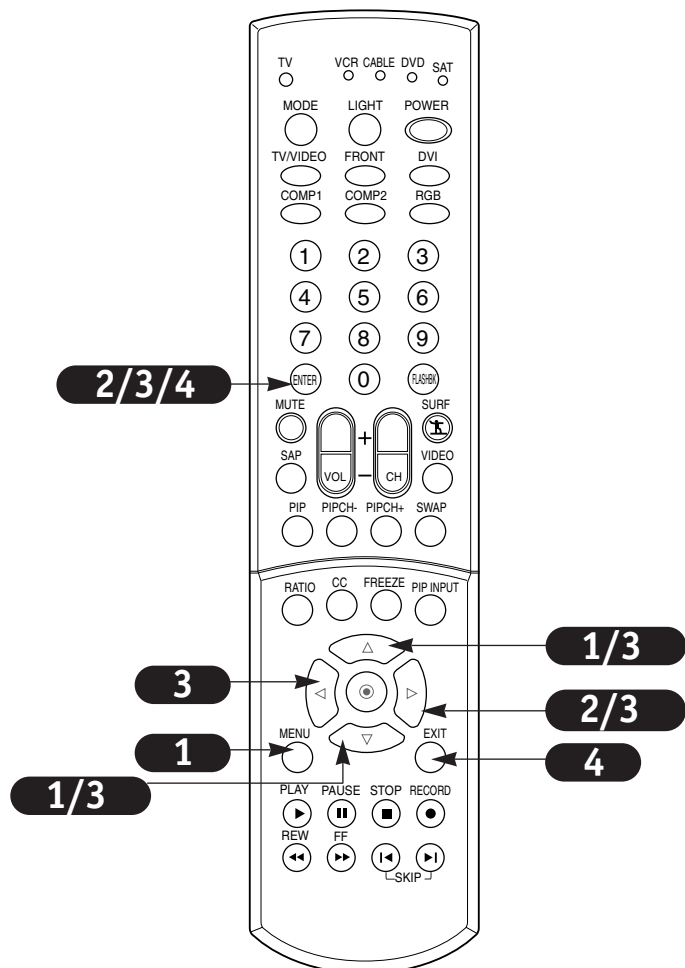
1 Press the MENU button on the remote control, then use the UP/DOWN arrow button to select the Time menu.

2 Press ENTER or the RIGHT arrow button to activate the Time menu.

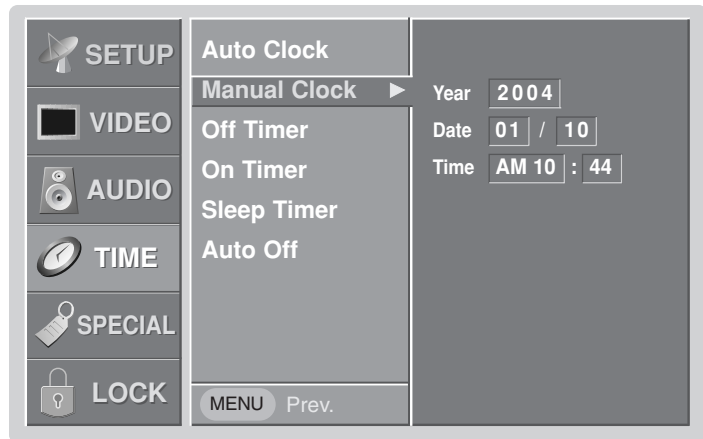
3 Use the UP/DOWN arrow button to choose Auto Clock, then press ENTER or the RIGHT arrow button to activate the Auto Clock option. Use the LEFT/RIGHT arrow button to make your auto clock selection.

- 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.

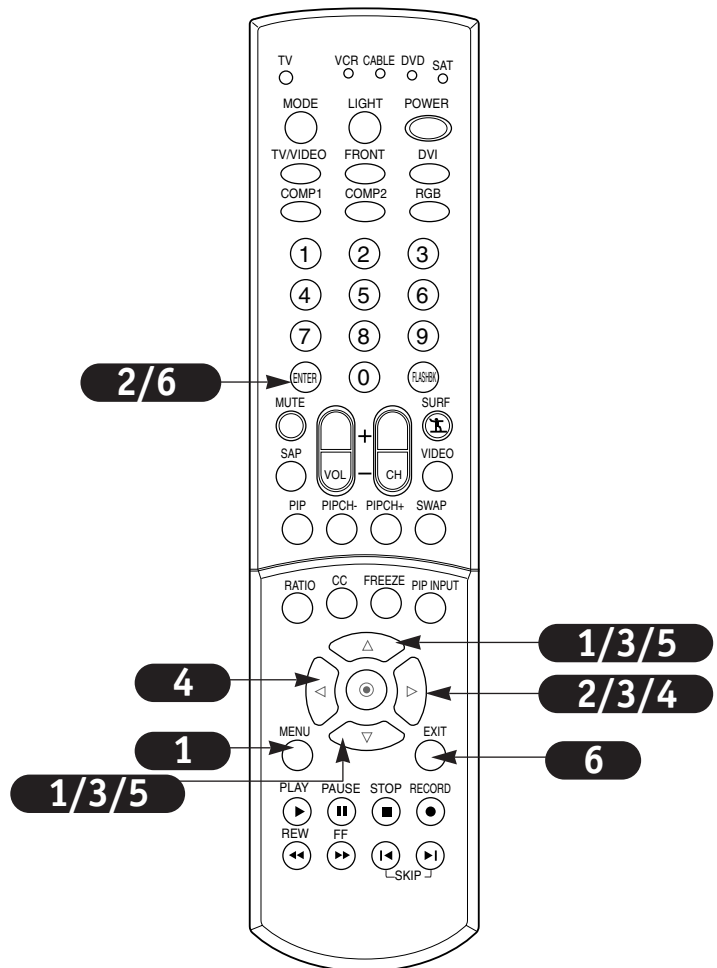
4 Press EXIT to save and return to TV viewing or press the ENTER button to save and return to the previous menu.



Manual Clock Setup



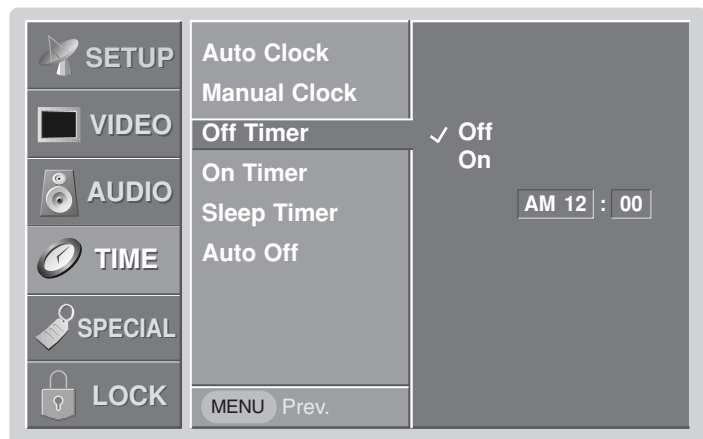
- 1** Press the MENU button on the remote control, then use the UP/DOWN arrow button to select the Time menu.
- 2** Press ENTER or the RIGHT arrow button to activate the Time menu.
- 3** Use the UP/DOWN arrow button to choose Manual Clock, then press the RIGHT arrow to activate the Manual Clock menu.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



TV Turn Off Timer Setup

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

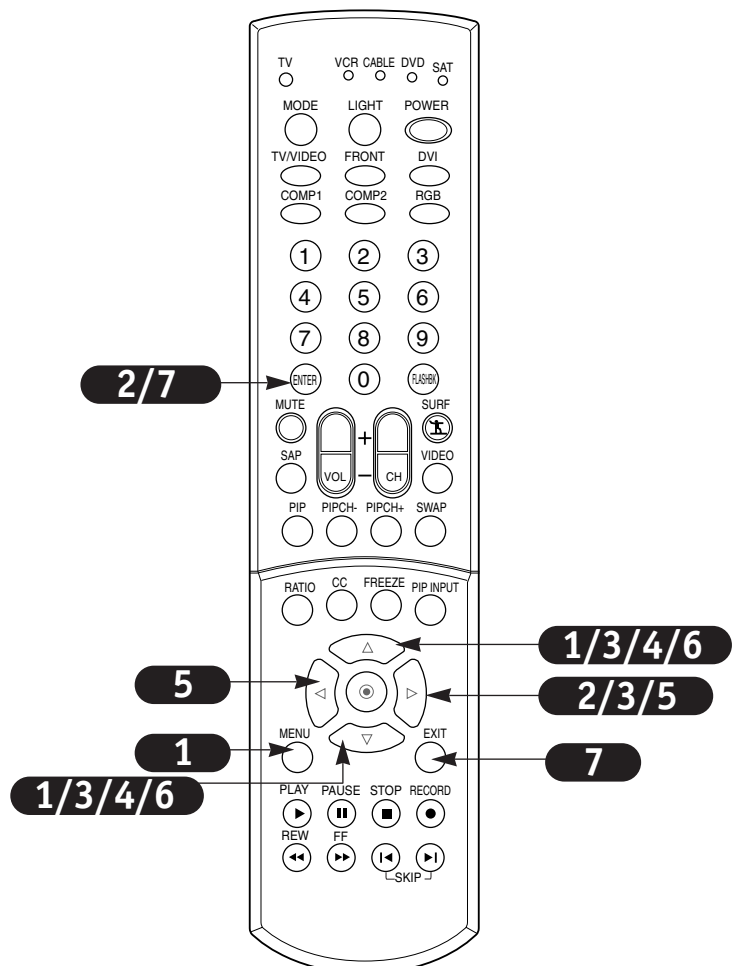
Off Timer function overrides On Timer function if they are both set to the same time.



- 1** Press the MENU button on the remote control, then use the UP/DOWN arrow button to select the Time menu.
- 2** Press ENTER or the RIGHT arrow button to activate the Time menu.
- 3** Use the UP/DOWN arrow to choose Off Time then press the RIGHT arrow to activate Off Timer.
- 4** Use the UP/DOWN arrow to choose On.
- 5** Use the RIGHT arrow to select each Off Timer option.
- 6** Use the UP/DOWN arrow to set the hours and then set the minutes.
- 7** Press EXIT to save and return to TV viewing, or press the ENTER button to save and return to the previous menu.



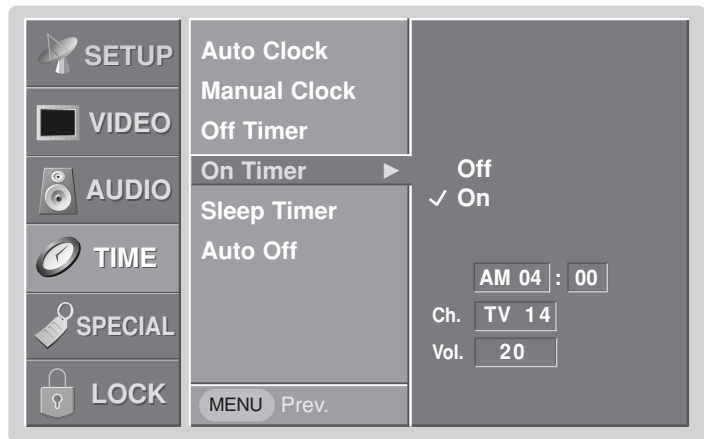
To cancel Off Timer function, use the UP/DOWN arrow button to select Off in step 4.



TV Turn On Time Setup

Time function operates only if current time is set.

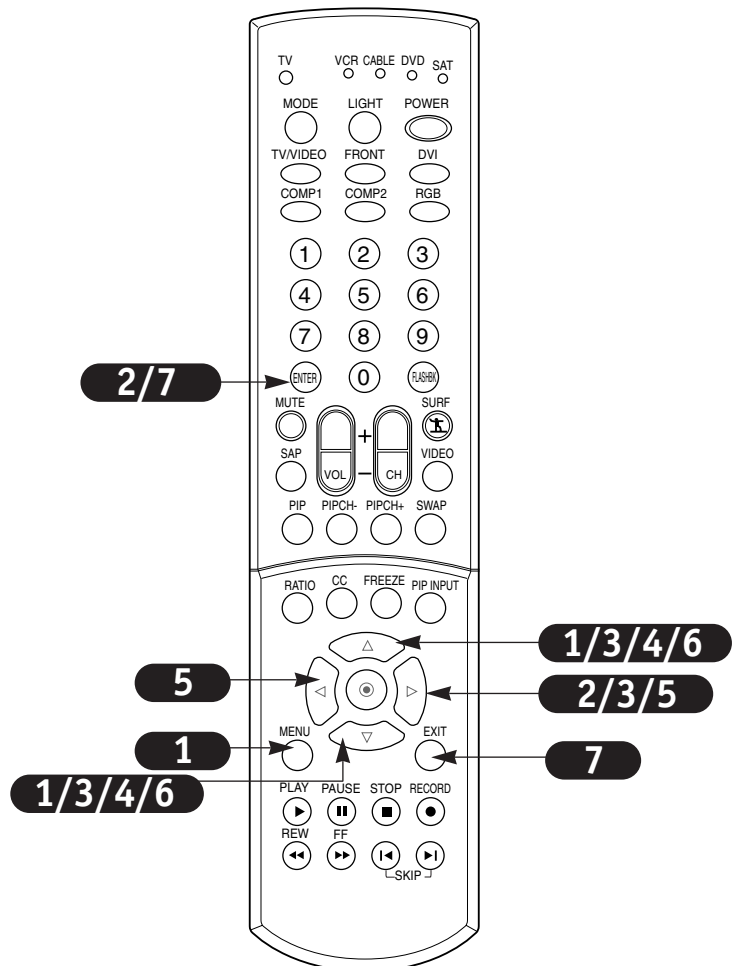
Unless a button is pressed within two hours after the TV is turned on by the On timer function, the TV will automatically turn itself off.



- 1** Press the MENU button on the remote control, then use the UP/DOWN arrow button to select the Time menu.
- 2** Press ENTER or the RIGHT arrow to activate the Time menu.
- 3** Use the UP/DOWN arrow to choose On Time, then press the RIGHT arrow to activate the On Timer menu.
- 4** Use the UP/DOWN arrow to choose On.
- 5** Use the RIGHT arrow to select in turn the On Timer menu options: Time, Channel, and Volume.
- 6** Use the UP/DOWN arrow to set Time, Channel, and Volume at turn on.
- 7** Press EXIT to save and return to TV viewing, or press the ENTER button to save and return to the previous menu.

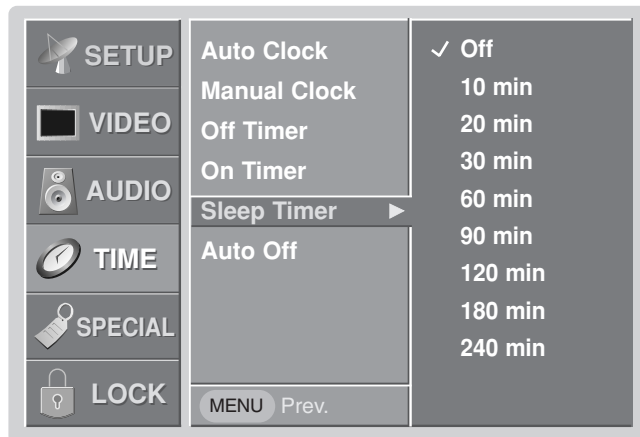


To cancel On Timer function, use the UP/DOWN arrow button to select Off in step 4.



Sleep Timer Setup

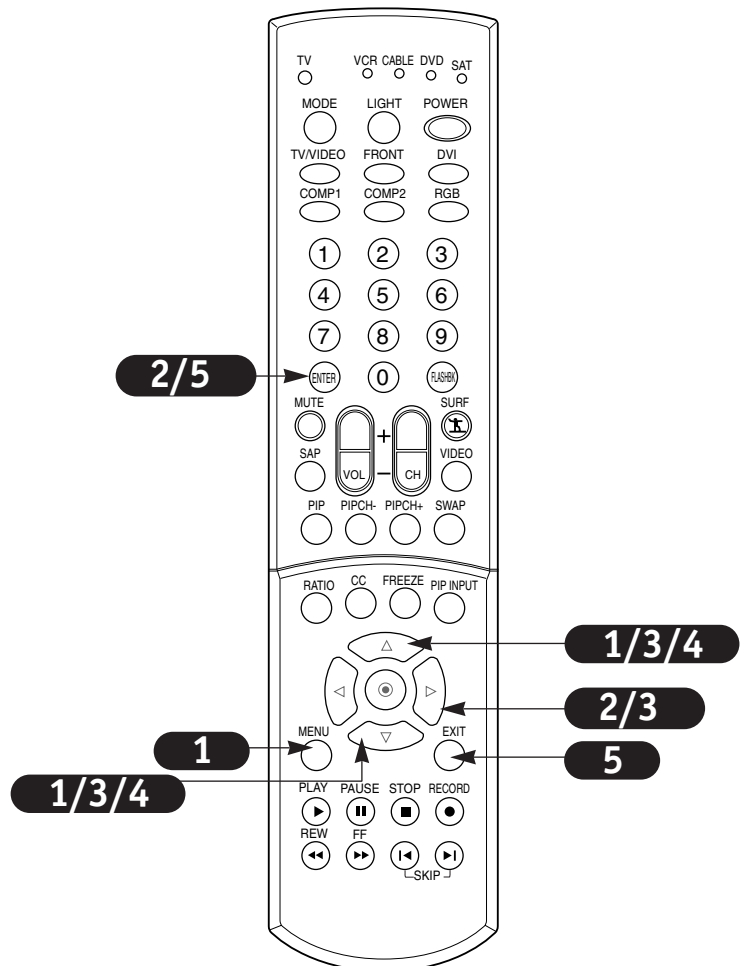
Select a preset time to turn your TV off automatically.



- 1** Press the MENU button on the remote control, then use the UP/DOWN arrow button to select the Time menu.
- 2** Press ENTER or the RIGHT arrow button to activate the Time menu.
- 3** Use the UP/DOWN arrow to choose Sleep Timer then press the RIGHT arrow to access the Sleep Timer menu.
- 4** Use the UP/DOWN arrow to choose a pre-set turn off time.
- 5** Press EXIT to save and return to TV viewing, or press the ENTER button to save and return to the previous menu.

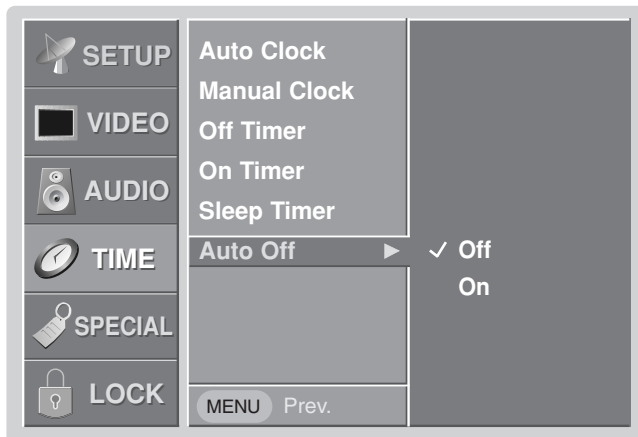


If you turn the TV off after setting sleep timer, the setting will be erased. Set it again if necessary.

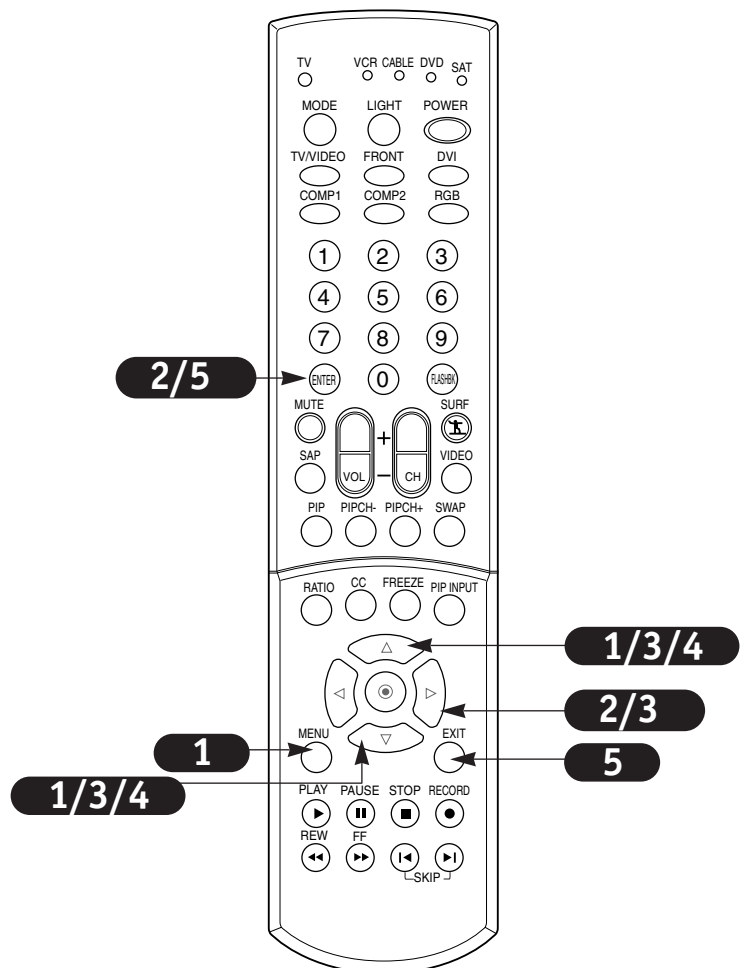


Auto Off

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



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



Aspect Ratio

- 1** 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 .
- 2** Press ENTER or the RIGHT arrow button to activate the Special menu.
- 3** Use the UP/DOWN arrows to choose Aspect Ratio.
- 4** 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.

- 5** 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.

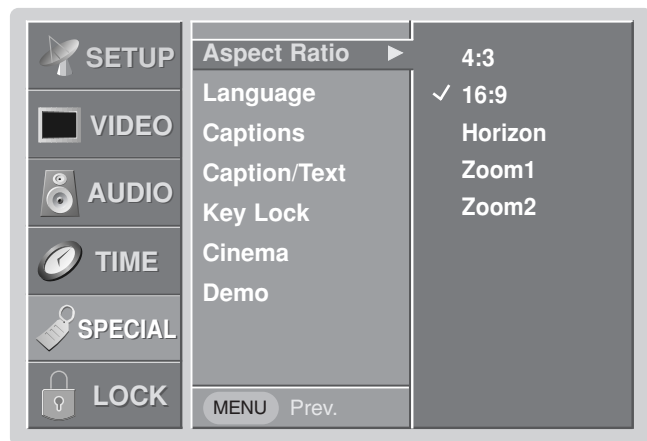
For RGB-DTV (720p, 1080i) or Component 1-2 (720p, 1080i) sources,, you can select either 4:3, 16:9 or Zoom1-2 aspect ratios.



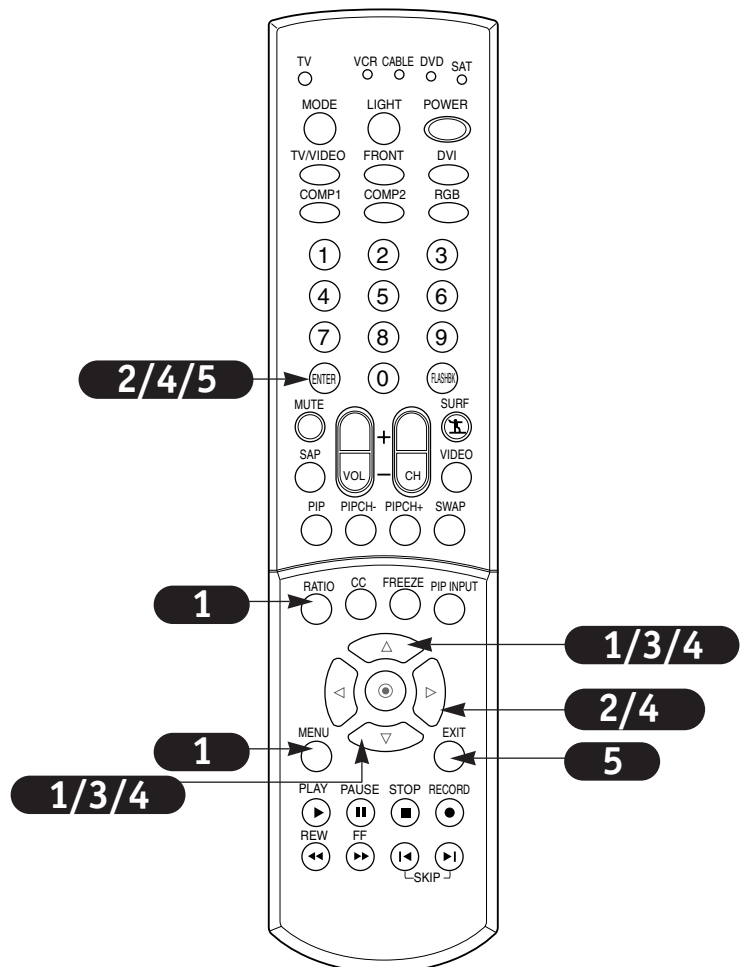
Aspect ratio is changed to 16:9 automatically for 720p or 1080i formats from component input1/2, RGB, or DVI sources.



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.

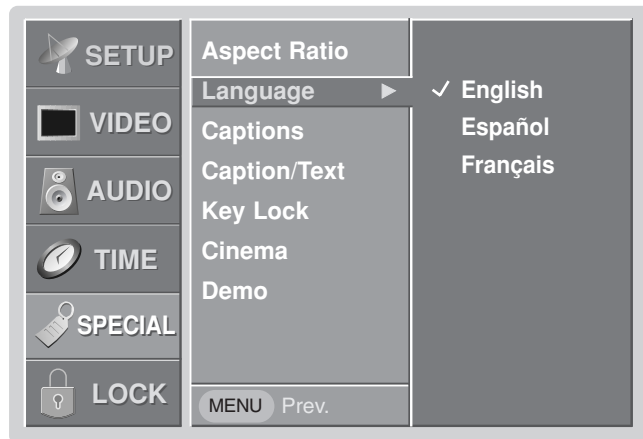


Lets you choose the way that an analog picture with a 4:3 aspect ratio is displayed on your TV 16:9 aspect ratio TV screen. When you receive an analog picture with a 4:3 aspect ratio on your 16:9 TV, you need to specify how the picture is to be displayed according to your preference.

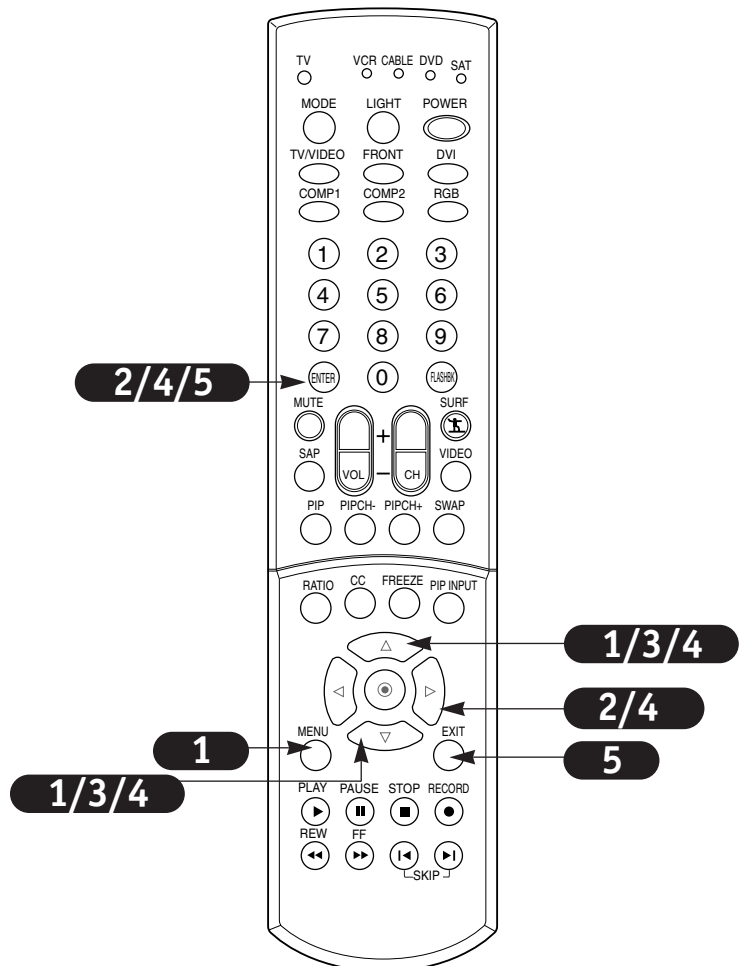


On-Screen Menu Languages

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

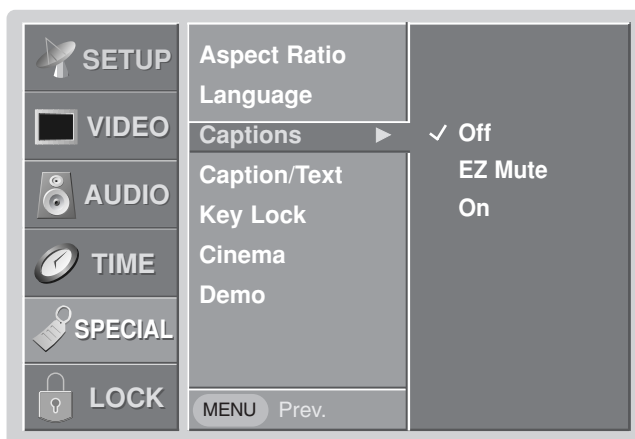


- 1** Press the MENU button on the remote control, then use the UP/DOWN arrow button to select the Special menu.
- 2** Press ENTER or the RIGHT arrow button to activate the Special menu.
- 3** Use the UP/DOWN arrow to choose Language.
- 4** Press ENTER or the RIGHT arrow button to move into the Language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



Captions Setup

Using the menu

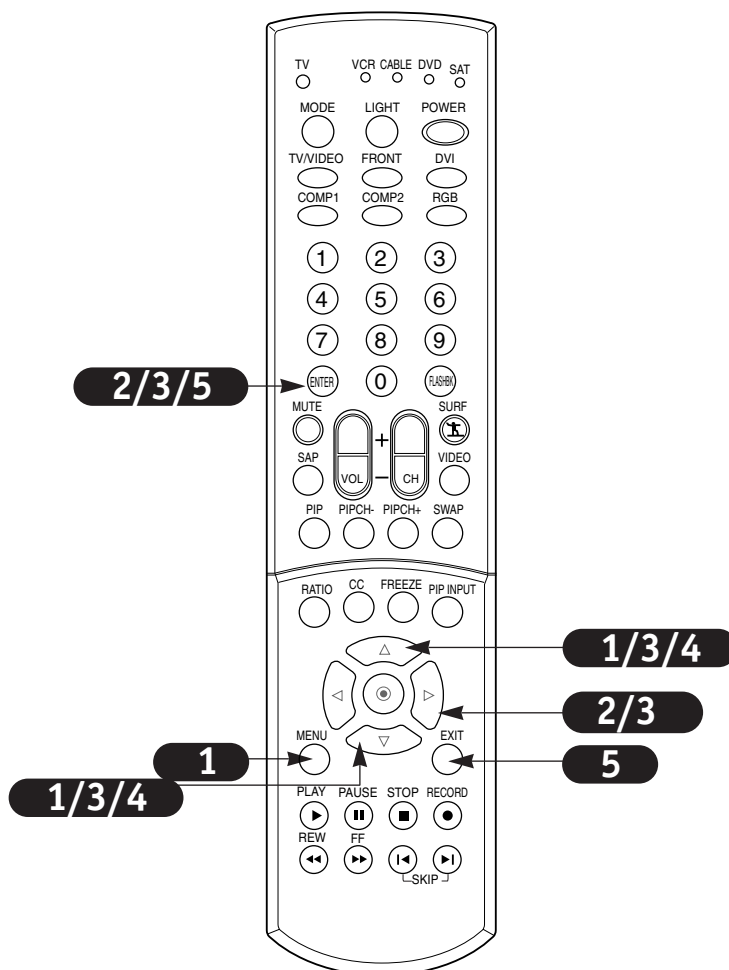


- 1** Press the MENU button on the remote control, then use the UP/DOWN arrow button to select the Special menu.
- 2** Press ENTER or the RIGHT arrow button to activate the Special menu.
- 3** Use the UP/DOWN arrow to choose Captions, then press ENTER or the Right arrow button.
- 4** Use the UP/DOWN arrow to make your caption selection. Your choices are: Off, EZ Mute, and On.
- 5** 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.
- 2** Press EXIT to save and return to TV viewing.

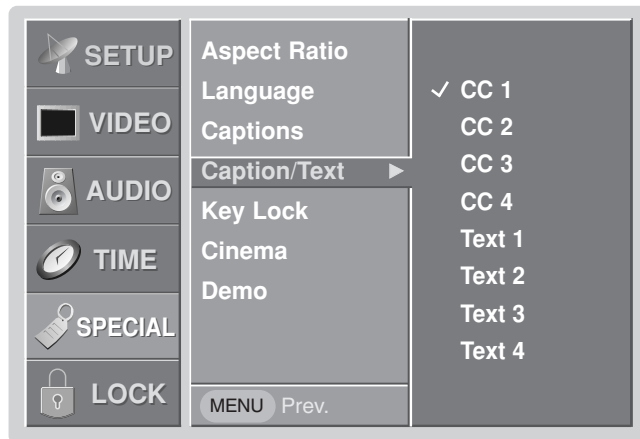


Caption/Text Mode Selection

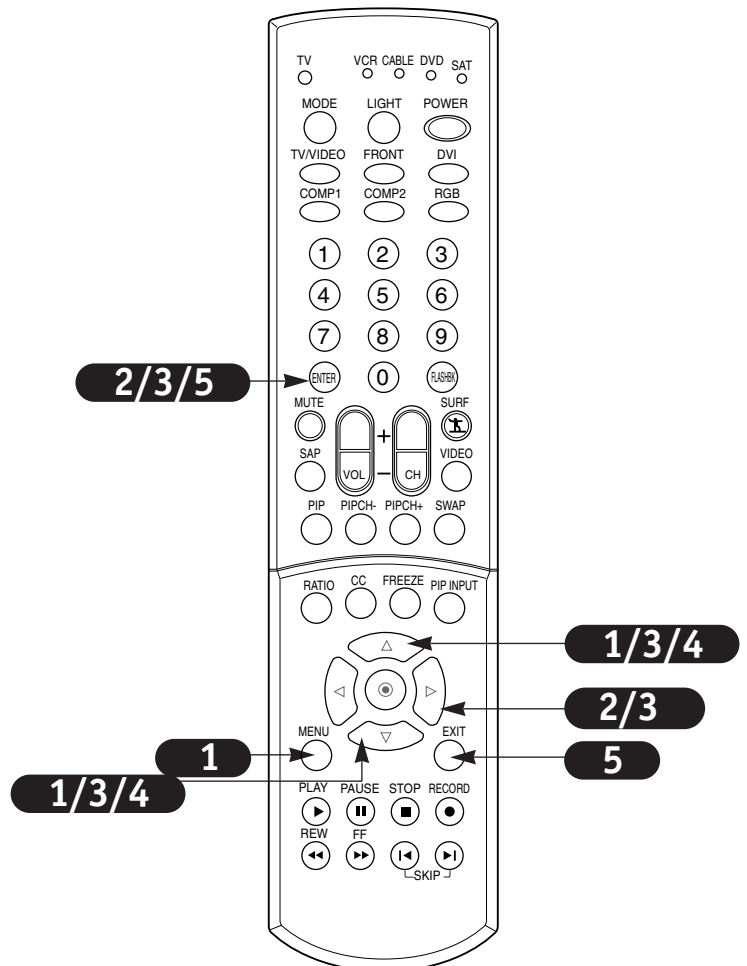
Select a closed caption mode for displaying captioning information when provided on the program.

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.



- 1** Press the MENU button on the remote control, then use the UP/DOWN arrow button to select the Special menu.
- 2** Press ENTER or the RIGHT arrow button to activate the Special menu.
- 3** Use the UP/DOWN arrow to choose Caption/Text, then press ENTER or the Right arrow button.
- 4** 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.
- 5** Press EXIT to save and return to TV viewing or press the ENTER button to save and return to the previous menu.

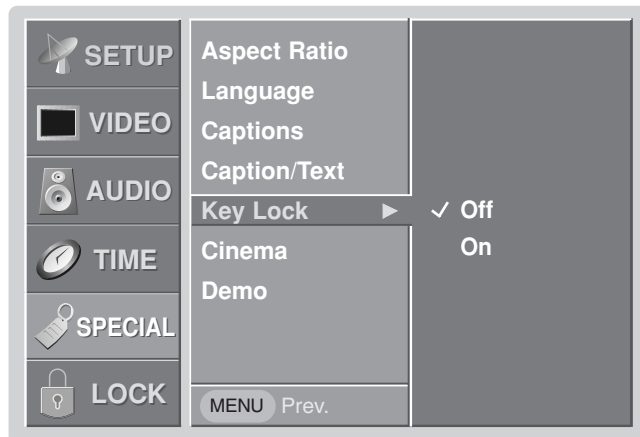


Key Lock

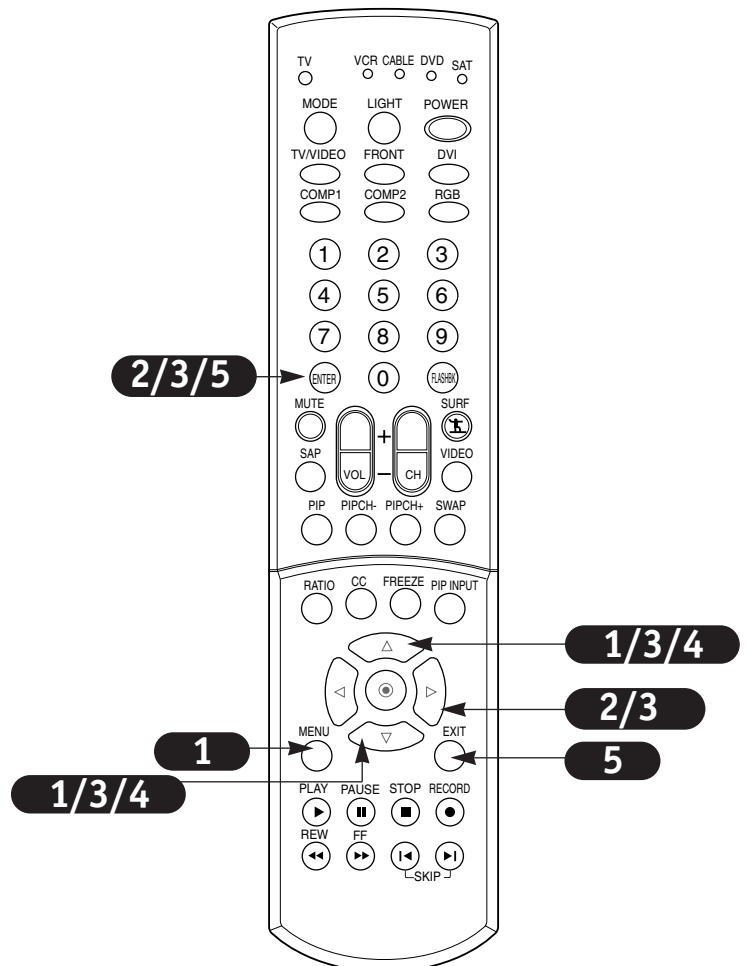
The TV can be set up so that it can only be used with the remote control.

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.



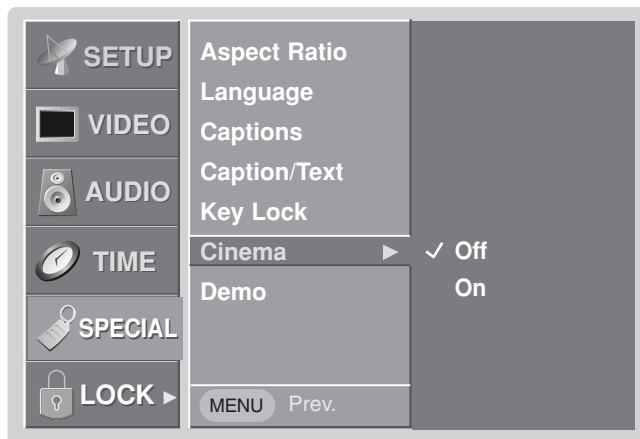
- 1** Press the MENU button on the remote control, then use the UP/DOWN arrow button to select the Special menu.
- 2** Press ENTER or the RIGHT arrow button to activate the Special menu.
- 3** Use the UP/DOWN arrow to choose Key Lock, then press ENTER or the Right arrow button.
- 4** Use the UP/DOWN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



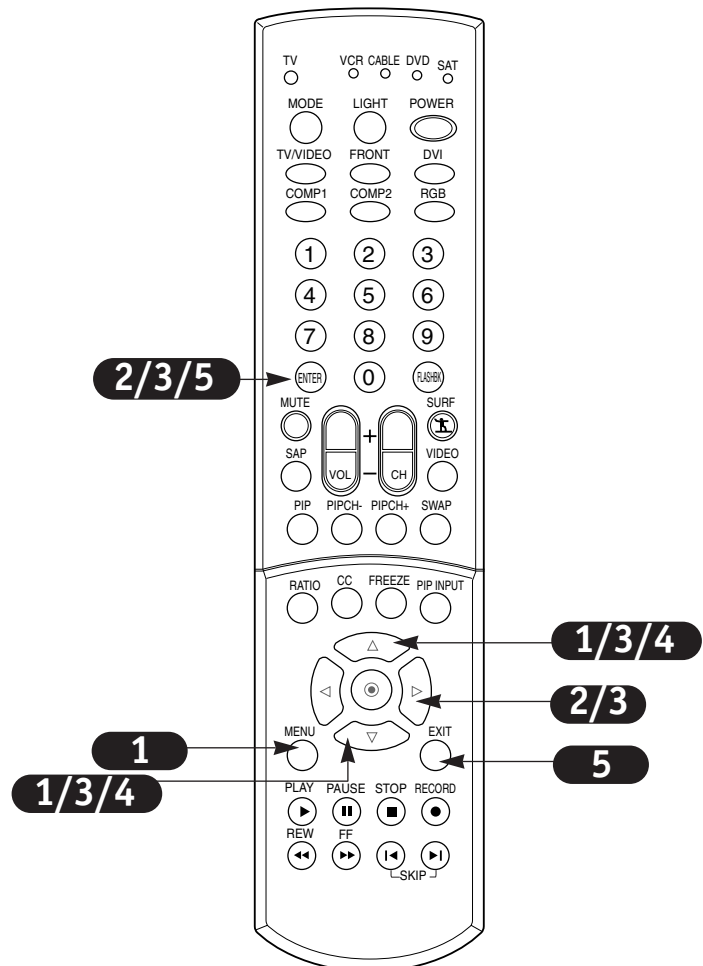
Cinema Mode Setup

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

When you operate Cinema (3:2 Pull-Down Mode or Cinema Correction Mode), the TV will adjust 24 fps video from movies to 30 fps video for display (This function is only available in Component 480i mode.)



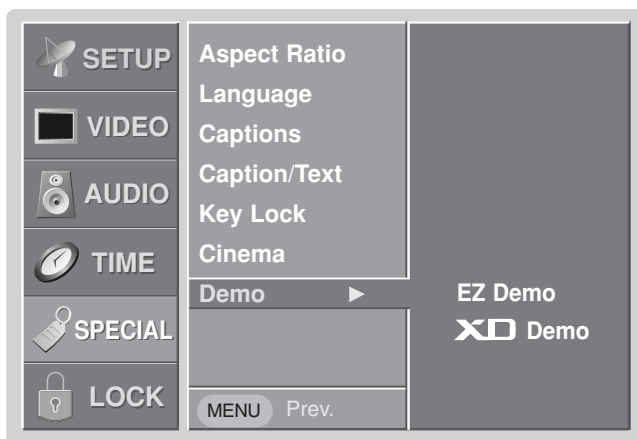
- 1** Press the MENU button on the remote control, then use the UP/DOWN arrow button to select the Special menu.
- 2** Press ENTER or the RIGHT arrow button to activate the Special menu.
- 3** Use the UP/DOWN arrow to choose Cinema, then press ENTER or the Right arrow button.
- 4** Use the UP/DOWN arrow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



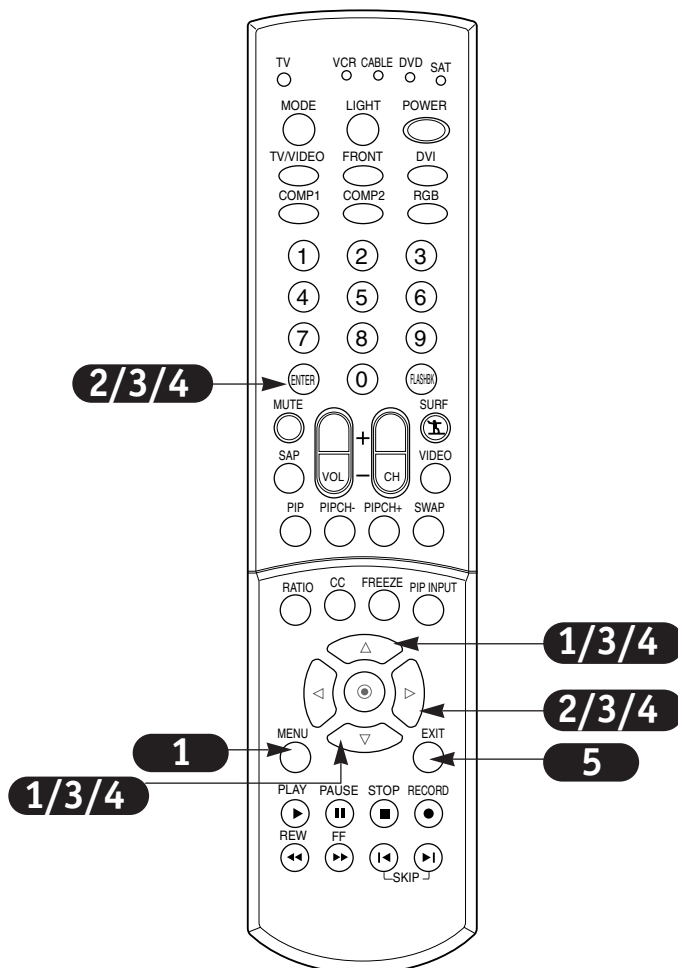
Demo (Menu Review)

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

XD Demo Use to see the difference between XD Demo On and XD Demo Off.



- 1** Press the MENU button on the remote control, then use the UP/DOWN arrow button to select the Special menu.
- 2** Press ENTER or the RIGHT arrow to activate the Special menu.
- 3** Use the UP/DOWN arrow to choose Demo then press ENTER or the RIGHT arrow button to access the Demo menu.
- 4** Use the UP/DOWN arrow to choose EZ Demo or XD Demo, then use the ENTER or the RIGHT button to start EZ Demo or XD Demo.
- 5** Press EXIT button to return to TV viewing.



Parental Lock Setup

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.

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

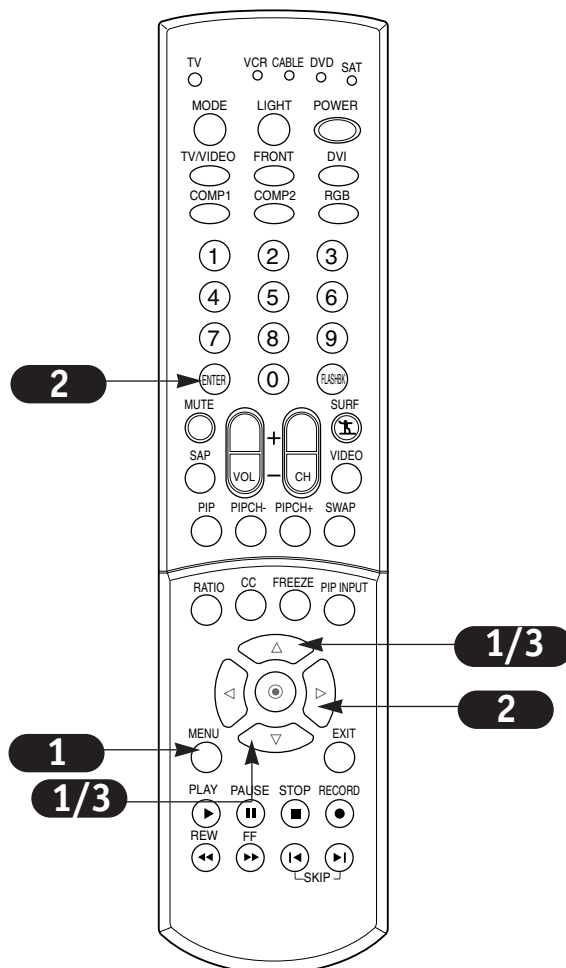
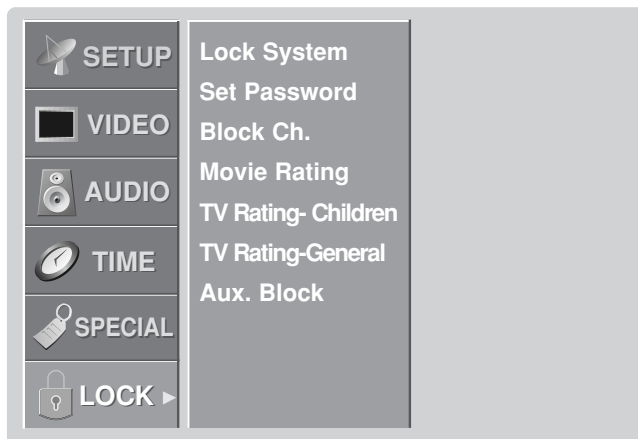
2 Press ENTER or the RIGHT arrow button to access the Lock Menu. The TV is set up with the initial password 0000.

3 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.

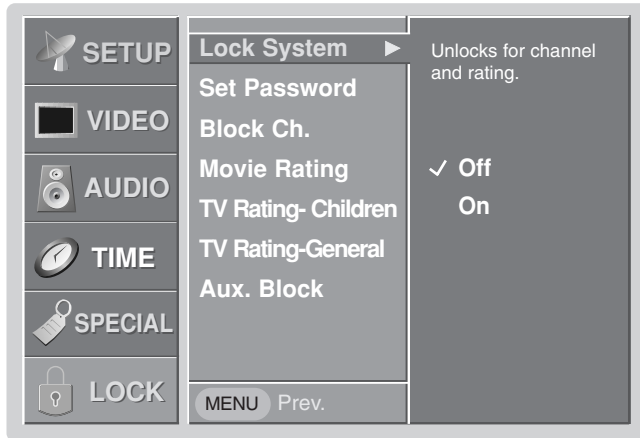


If you forget your password, enter the number, 7777 to release the lock mode.



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.

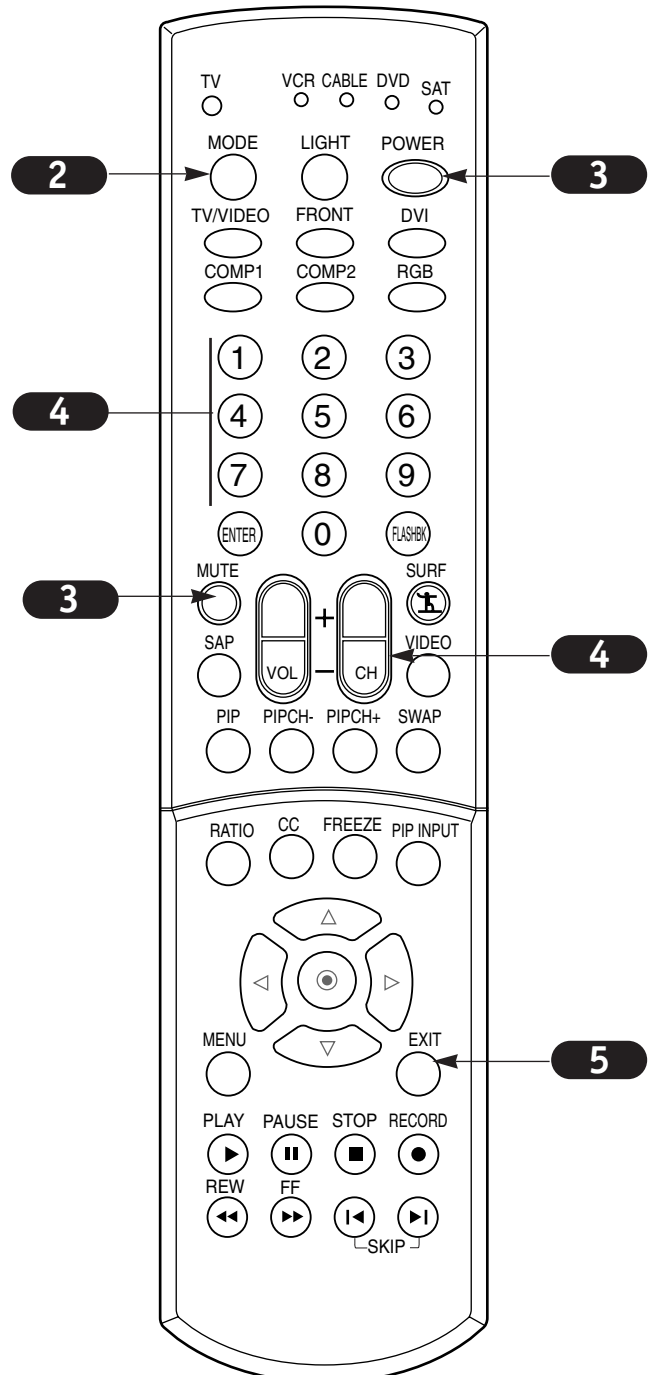
Blocking Off: Permits all programs.

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-control-lable devices of other manufacturers.

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

- 1** 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 **POWER** button and the **MUTE** button simultaneously. Now the remote control is ready to program the code for the corresponding device.
- 4** 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.
- 5** Press the **EXIT** button to store the program.
- 6** Test the remote control functions to see if the device responds properly. If not, repeat from step 2.



Programming Codes: TVs

TVs

| Brand | Codes | Brand | Codes | Brand | Codes | Brand | Codes |
|---------------|-------------|------------|-------------|-------------|-------------|----------------|-------------|
| A MARK | 112 143 | GOLDSTAR | 004 102 106 | | 019 024 040 | Sharp | 004 014 019 |
| ADMIRAL | 072 081 161 | | 110 112 113 | | 056 130 132 | | 022 028 029 |
| AKAI | 006 146 | | 116 119 122 | NIKEI | 134 | | 081 143 170 |
| AMPRO | 073 167 | | 127 137 143 | ONKING | 043 | | 175 |
| AMSTRAD | 052 | HALL MARK | 004 116 | ONWA | 043 | SIEMENS | 088 |
| ANAM | 043 054 056 | HITACHI | 004 006 009 | OPTONICA | 019 081 | SIGNATURE | 072 |
| | 080 104 108 | | 010 011 012 | PANASONIC | 034 056 080 | SONY | 041 070 079 |
| | 112 115 118 | | 023 041 075 | | 092 164 | | 085 126 139 |
| | 121 131 | | 143 158 163 | PHILCO | 003 004 006 | SOUNDESIGN | 147 185 |
| AOC | 004 006 058 | | 166 | | 024 043 056 | | 003 004 028 |
| | 112 | INFINITY | 164 | | 059 060 063 | | 043 116 |
| BLAUPUNKT | 088 | INKEL | 129 | PHILIPS | 003 004 005 | SPECTRICON | 112 |
| CANDLE | 002 003 004 | JBL | 164 | | 006 038 059 | SSS | 004 043 |
| | 006 | JCPENNY | 004 006 008 | | 070 093 143 | SUPRE MACY | 002 |
| CAPEHART | 058 | | 009 024 030 | | 160 164 | SYLVANIA | 003 004 006 |
| CETRONIC | 043 | | 065 101 143 | | 006 018 023 | | 044 059 060 |
| CITIZEN | 002 003 004 | | 156 160 | | 025 027 116 | | 063 064 116 |
| | 006 043 101 | JENSEN | 013 | PIONEER | 135 176 | TANDY | 127 140 160 |
| | 103 143 | JVC | 034 038 070 | | 164 | TATUNG | 164 |
| CLASSIC | 043 | | 083 145 | | 164 | TECHNICS | 081 |
| CONCERTO | 004 | KEC | 043 | | 135 176 | TECHWOOD | 056 062 |
| CONTEC | 039 043 050 | KENWOOD | 006 070 | PORTLAND | 004 143 | TECHWOOD | 034 080 084 |
| | 051 | KLOSS | 002 059 | PROSCAN | 144 160 161 | TEKNIKA | 004 |
| CORONADO | 143 | KMC | 143 | | 165 167 | | 002 003 004 |
| CRAIG | 043 054 | KTV | 006 043 143 | PROTON | 004 058 116 | | 006 024 028 |
| CROWN | 043 143 | | 154 | | 131 143 171 | | 031 043 072 |
| CURTIS MATHES | 004 006 101 | LG | 255 | | 173 | | 077 101 103 |
| | 116 143 | LODGENET | 072 | QUASAR | 034 056 092 | | 143 |
| CXC | 043 | LOGIK | 072 | RADIO SHACK | 019 043 047 | TELEFUNKEN | 037 046 086 |
| DAEWOO | 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 |
| | 136 143 | | 061 063 064 | REALISTIC | 007 019 043 | | 101 138 |
| DAYTRON | 004 116 143 | | 127 143 160 | | 047 | TOTEVISION | 143 |
| DYNASTY | 043 | | 164 | ROCTEC | 186 | UNIVERSAL | 008 009 |
| DYNATECH | 062 | MARANTZ | 006 077 164 | RUNCO | 168 169 | VIDEO CONCEPTS | 146 |
| ELECTROHOME | 024 077 143 | MATSUI | 164 | SAMPO | 004 006 058 | VIDIKRON | 174 |
| EMERSON | 004 005 006 | MEMOREX | 004 007 072 | | 116 | VIDTECH | 004 116 |
| | 028 043 047 | | 116 | SAMSUNG | 004 050 089 | WARDS | 004 008 009 |
| | 048 050 051 | METZ | 088 | | 101 105 113 | | 019 028 060 |
| | 096 116 143 | MGA | 004 006 024 | | 116 127 133 | | 061 063 064 |
| | 151 153 154 | | 028 042 049 | | 137 143 160 | | 072 074 116 |
| | 155 | | 077 116 | SANYO | 007 020 021 | | 143 164 |
| FISHER | 007 057 | MINERVA | 088 | | 033 039 053 | YAMAHA | 004 006 |
| FUNAI | 028 043 | mitsubishi | 004 006 024 | | 057 082 166 | YORK | 004 116 |
| FUTURETECH | 043 | | 028 040 042 | SCOTT | 004 028 043 | YUPITERU | 043 |
| GE | 004 006 008 | | 109 116 124 | | 048 116 143 | 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 | | | | |

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 |
| DAEWOO | 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 | TMK | 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 | | 112 131 | | |

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

| Brand | Codes | Brand | Codes | Brand | Codes | Brand | Codes |
|----------------|-------------|----------------|-------------|--------------------|-------------|----------|-------------|
| ABC | 003 004 039 | | 008 009 010 | REGAL | 049 050 | | 032 035 |
| | 042 046 052 | | 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 | | |

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.

Troubleshooting

Some quick and easy tips to fixing problems yourself.

| SYMPTOMS | POSSIBLE SOLUTIONS |
|---|---|
| Snowy picture and unclear sound. | <ul style="list-style-type: none">• Check your antenna connection or location.• Check your cable input.• Check to see if the TV/VCR button on your VCR has the TV selected. |
| Multiple images or 'ghost shadows.' | <ul style="list-style-type: none">• Check your antenna direction and/or location.• Check your cable input.• Make sure the cable from your antenna to your TV is properly connected. |
| Interference: Sharp lines across the screen and unclear sound. | <p><i>The following may cause image problems or distortion: Electrical appliances, powerful lights, cars, trucks; computers or portable phones; medical equipment</i></p> <ul style="list-style-type: none">• If possible increase the distance between your TV and the offending appliance. Or shut one of them off. |
| Normal picture but no sound. | <ul style="list-style-type: none">• Check sound level.• Make sure the TV sound is not muted.• Try another channel. The problem may be the broadcast, not your TV.• Are the Audio cables properly installed?• 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. | <ul style="list-style-type: none">• Are you in TV or cable tuning mode, and should be in the other?• Make sure output channels on all A/V equipment are on the same channel (3 or 4).• Check that all connections are tight. |
| No picture and no sound. | <ul style="list-style-type: none">• Is the AC power cord plugged in?• 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.• Try another channel. The problem may be with the broadcast. |
| No color, but the sound is O.K. | <ul style="list-style-type: none">• Check the color settings in the Video menu.• Try another channel. The problem may be with the broadcast. |
| Picture has a big black box on it, but the sound is O.K. | <ul style="list-style-type: none">• The Caption option may be in Text mode. Select Caption 1, or OFF in the Captions/Text menu. |
| Picture has two horizontal black bars, one on top and one on bottom. | <ul style="list-style-type: none">• 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. |
| Missing Secret code | <ul style="list-style-type: none">• 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.)

| | |
|---|---|
| Remote control doesn't work. | <ul style="list-style-type: none">• Make sure the batteries are fresh and installed properly. |
| Menu options can't be changed or selected. | <ul style="list-style-type: none">• 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 style="list-style-type: none">• Check to see if the source equipment has been turned on.• Make sure that the connections are secure on the back of your TV and on the source equipment. |
| Weak or no Stereo Sound when using a stereo VCR. | <ul style="list-style-type: none">• 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. | <ul style="list-style-type: none">• 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 that all the wires are connected properly.• Check to see if your input source for PIP is set correctly. |
| The PIP inset is "snow" when the source is Antenna. | <ul style="list-style-type: none">• 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. | <ul style="list-style-type: none">• 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 television). |
| 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 picture 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. |

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 programming. 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

| | | |
|-----------------------------|--|------|
| RU-44SZ63D | Horizontal Size (Inches) | 41.7 |
| | Height (Inches) | 30.1 |
| | Depth (Inches) | 14 |
| | Weight (lbs.) | 69 |
| RU-52SZ53D | Horizontal Size (Inches) | 48.6 |
| | Height (Inches) | 35 |
| | Depth (Inches) | 15.3 |
| | Weight (lbs.) | 85.5 |
| 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) | 240W | |
| Antenna | 75 ohm External Terminal for VHF/UHF | |
| Audio Output (W) | 12W x 2 | |
| 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) Calibration port (1) | |



Design and specifications are subject to change without prior notice.

CONCERNING PIXEL FUNCTIONALITY: Your DLP Rear Projection Television contains about 921600 individual pixels. DLP 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 DLP 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 1-800-243-0000 24 hours a day, 365 days per year |
|---|--|

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

Telephone number: 1-800-243-0000
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 DLP Rear Projection Televisions are marketed and distributed in the United States by LG Electronics Corporation, 2000 Millbrook Drive, Lincolnshire, IL 60069.



LG® Brand
DLP Rear Projection Television
U.S. Limited Warranty

Your LG® brand DLP 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.

| | |
|--|---|
| <p>WARRANTY PERIOD:</p> <p>LABOR: One Year from the Date of Purchase. Your unit will be repaired or replaced with a new, substitute model or factory reconditioned unit, at the manufacturer's option. If repair, parts used in the repair may be new or remanufactured.</p> <p>Parts, except for Halogen Bulb: One Year from the Date of Purchase.</p> <p>Halogen Bulb: 90 Days from the Date of Purchase.</p> <p>Replacement Units and Repair Parts are warranted for the remaining portion of the original unit's warranty period.</p> <p>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.</p> | <p>In-Home Service is available on this Unit, as provided in this Warranty. 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.</p> <p>Please call 1-800-243-0000</p> <p>To locate your nearest LG® Brand Authorized Service Center and to schedule a service appointment.</p> <p>For further Instructions, see "For Service" below</p> |
|--|---|

THIS WARRANTY IS IN LIEU OF ANY OTHER WARRANTY, 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 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:

| | |
|--|--|
| <ul style="list-style-type: none"> ● damage caused in shipping or transit ● service required as a result of improper installation, including incorrect or insufficient AC supply (please consult the owner's manual for power supply requirements). ● installation or repair of antenna systems, cable converters, cable company supplied equipment, or other components in a video system ● set-up or adjustment on consumer controls, or damage caused by improper adjustments ● damage caused by other system components ● any unit that has been modified or incorporated into any other product ● replacement of batteries on the remote control. ● replacement of the Halogen Bulb except within the first 90 days | <ul style="list-style-type: none"> ● damage (including cosmetic damage), failure, loss or personal injury due to misuse, abuse, negligence, improper maintenance or storage, or to acts of nature or other causes beyond our control. (Causes beyond our control include but are not limited to lightning strike, power surges, power outages and water damage.) ● repair or replacement of warranted parts by other than an LG® Brand authorized service centers. ● units purchased or serviced outside of the U.S.A. ● product where the original factory serial numbers have been removed, defaced or changed in any way. ● product sold and labeled as "as is, where is" or similar disclaimer. |
|--|--|

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

P/N : 3828VA0465L (d) (MB042H)

Free Manuals Download Website

<http://myh66.com>

<http://usermanuals.us>

<http://www.somanuals.com>

<http://www.4manuals.cc>

<http://www.manual-lib.com>

<http://www.404manual.com>

<http://www.luxmanual.com>

<http://aubethermostatmanual.com>

Golf course search by state

<http://golfingnear.com>

Email search by domain

<http://emailbydomain.com>

Auto manuals search

<http://auto.somanuals.com>

TV manuals search

<http://tv.somanuals.com>