Installation and Operating Guide

Model Numbers | Z19LCD3, Z22LCD3 | LCD TV



ENERGY STAR is a set of power-saving guidelines issued by the U.S. Environmental Protection Agency(EPA).



As an ENERGY STAR Partner LGE U. S. A.,Inc. has determined that this product meets the ENERGY STAR guidelines for energy efficiency.



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WARNING / CAUTION



WARNING / CAUTION RISK OF ELECTRIC SHOCK DO NOT OPEN



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/CAUTION

TO REDUCE THE RISK OF FIRE AND ELECTRIC SHOCK, DO NOT EXPOSE THIS PRODUCT TO RAIN OR MOISTURE.

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.

WARNING / CAUTION

To prevent fire or shock hazards, do not expose this product to rain or moisture.

FCC NOTICE

Class B digital device

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment to 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. Unauthorized modification could void the user's authority to operate this product

SAFETY INSTRUCTIONS

IMPORTANT SAFETY INSTRUCTIONS

Important safety instructions shall be provided with each apparatus. This information shall be given in a separate booklet or sheet, or be located before any operating instructions in an instruction for installation for use and supplied with the apparatus.

This information shall be given in a language acceptable to the country where the apparatus is intended to be used. The important safety instructions shall be entitled "Important Safety Instructions". The following safety instructions shall be included where applicable, and, when used, shall be verbatim as follows. Additional safety information may be included by adding statements after the end of the following safety instruction list. At the manufacturer's option, a picture or drawing that illustrates the intent of a specific safety instruction may be placed immediately adjacent to that safety instruction:

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Read these instructions.

Keep these instructions. Heed all warnings. Follow all instructions.



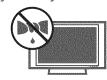
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Do not use this apparatus near water.



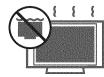


Clean only with dry cloth.





Do not block any ventilation openings. Install in accordance with the manufacturer's instructions

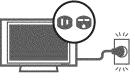




Do not install near any heat sources such as radiators, heat registers, stoves, or other apparatus (including amplifiers)that produce heat.



When mounting a TV it on the wall, make sure not to install TV by hanging power and signal cables on the back of the TV. Do not defeat the safety purpose of the polarized or grounding-type plug. A polarized plug has two blades with one wider than the other. A grounding type plug has two blades and a third grounding prong, The wide blade or the third prong are provided for your safety. If the provided plug does not fit into your outlet, consult an electrician for replacement of the obsolete outlet.



Protect the power cord from being walked on or pinched particularly at plugs, convenience receptacles, and the point where they exit from the apparatus.





Only use attachments/accessories specified by the manufacturer.



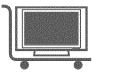


Unplug this apparatus when unused for long periods of time.





Use only with the cart, stand, tripod, bracket, or table specified by the manufacturer, or sold with the apparatus. When a cart is used, use caution when moving the cart/apparatus combination to avoid injury from tip-over.







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Never touch this apparatus or antenna during a thunder or lighting storm.

Do not allow a impact shock or any objects to fall into the product, and do not drop onto the screen with something.

Refer all servicing to qualified service personnel. Servicing is required when the apparatus has been damaged in any way, such as power-supply cord or plug is damaged, liquid has been spilled or objects have fallen into the apparatus, the apparatus has exposed to rain or moisture, does not operate normally, or has been dropped.





CAUTION concerning the Power Cord :

Most appliances recommend they be placed upon a dedicated circuit; that is, a single outlet circuit which powers only that appliance and has no additional outlets or branch circuits. Check the specification page of this owner's manual to be certain.

Do not overload wall outlets. Overloaded wall outlets, loose or damaged wall outlets, extension cords, frayed power cords, or damaged or cracked wire insulation are dangerous. Any of these conditions could result in electric shock or fire. Periodically examine the cord of your appliance, and if its appearance indicates damage or deterioration, unplug it, discontinue use of the appliance, and have the cord replaced with an exact replacement part by an authorized servicer. Protect the power cord from physical or mechanical abuse, such as being twisted, kinked, pinched, closed in a door, or walked upon. Pay particular attention to plugs, wall outlets, and the point where the cord exits the appliance.





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Outdoor use marking :

WARNING - To reduce the risk of fire or electric shock, do not expose this appliance to rain or moisture.



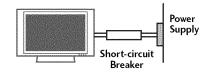
Wet Location Marking : Apparatus shall not be exposed to dripping or splashing and no objects filled with liquids, such as vases, shall be placed on or over apparatus.



GROUNDING

Ensure that you connect the earth ground wire to prevent possible electric shock. If grounding methods are not possible, have a qualified electrician install a separate circuit breaker.

Do not try to ground the unit by connecting it to telephone wires, lightening rods, or gas pipes.



DISCONNECTING DEVICE FROM MAINS

Mains plug is the disconnecting device. The plug must remain readily operable.

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If the TV feels cold to the touch, there may be a small "flicker" when it is turned on. This is normal, there is nothing wrong with TV.

Some minute dot defects may be visible on the screen, appearing as tiny red, green, or blue spots. However, they have no adverse effect on the monitor's performance.

Avoid touching the LCD screen or holding your finger(s) against it for long periods of time. Doing so may produce some temporary distortion effects on the screen.

On Disposal

a. The fluorescent lamp used in this product contains a small amount of mercury.

b. Do not dispose of this product with general household waste.

c. Disposal of this product must be carried out in accordance to the regulations of your local authority.

PREPARATION

ACCESSORIES

Ensure that the following accessories are included with your product. If an accessory is missing, please contact the dealer where you purchased the product.

User must use shielded signal interface cables (D-sub 15 pin cable) with ferrite cores to maintain standard compliance for the product.





Owner's Manual

CD Manual



Remote Control, Batteries



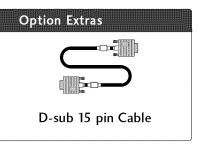


Power Cord

75 ohm Round Cable



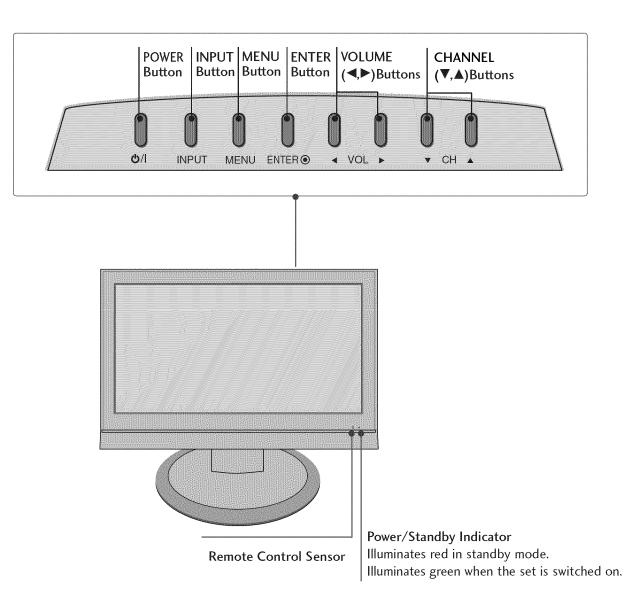
Cable Management



PREPARATION

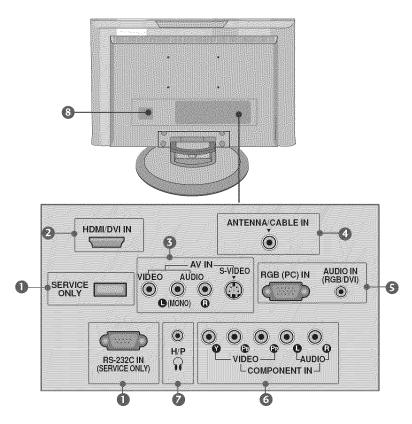
FRONT PANEL INFORMATION

[®] Here shown may be somewhat different from your TV.



BACK PANEL INFORMATION

Here shown may be somewhat different from your TV.



SERVICE ONLY RS-232C IN (SERVICE)

RS-232C IN (SERVICE ONLY) PORT For service.

HDMI/DVI IN

Connect a HDMI signal to this jack. Or DVI (Video) signal to this jack with a HDMI to DVI cable.

S AV IN (Audio/Video)

Connect audio/video output from an external device to these jacks.

S-VIDEO

Connect S-Video out from an S-VIDEO device.

ANTENNA/CABLE IN

Connect over-the air signals to this jack. Connect cable signals to this jack.

S RGB (PC) IN

Connect the output from a PC. AUDIO IN (RGB/DVI) Connect the audio from a PC or DTV.

O COMPONENT IN

Connect a component video/audio device to these jacks.

HEADPHONE INPUT

Plug the headphone into the headphone socket.

Over Cord Socket

For operation with AC power. Caution: Never attempt to operate the TV on DC power.

PREPARATION

STAND INSTALLATION

Here shown may be somewhat different from your TV.

PREPARATION

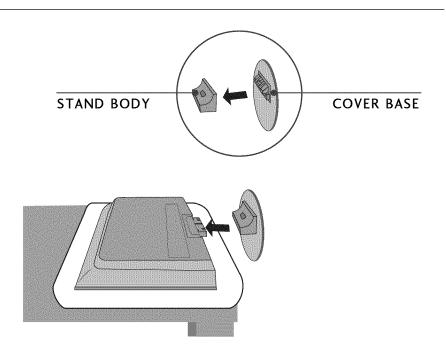
Carefully place the product screen side down on a cushioned surface that will protect product and screen from damage.



Assemble parts of the STAND BODY with COVER BASE of the stand. Insert the STAND BODY into a COVER BASE until clicking sound.



Once assembled take the TV up carefully and face the front side.

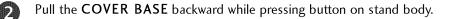


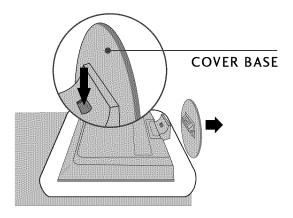
DETACHING STAND

■ Here shown may be somewhat different from your TV.



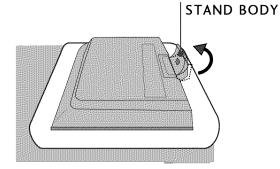
Carefully place the product screen side down on a cushioned surface that will protect product and screen from damage.





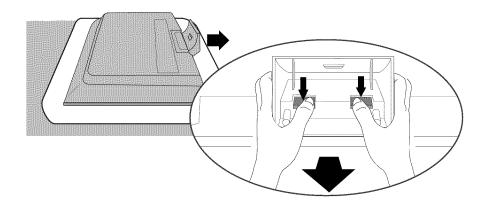


Hold the STAND BODY and bend it upward.





Pull the STAND BODY to separate from set while pressing the 2 latches.



PREPARATION

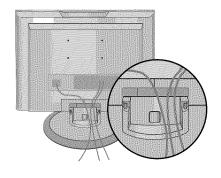
BACK COVER FOR WIRE ARRANGEMENT

Here shown may be somewhat different from your TV.



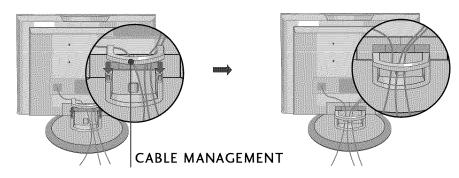
Connect the cables as necessary.

To connect an additional equipment, see the EXTERNAL EQUIPMENT SETUP section.



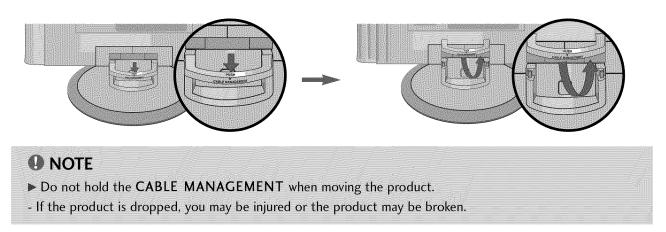


Install the CABLE MANAGEMENT as shown.



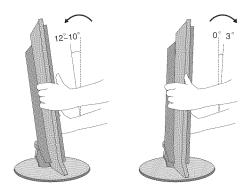
How to remove the CABLE MANAGEMENT

First, press the cable management. Hold the CABLE MANAGEMENT with both hands and pull it upward.



POSITIONING YOUR DISPLAY

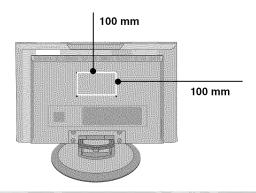
- Here shown may be somewhat different from your TV.
- Adjust the position of the panel in various ways for maximum comfort.
- Tilt range



PREPARATION

VESA WALL MOUNTING

This product accepts a VESA-compliant mounting interface pad. (optional) There 4 threaded holes are available for attaching the bracket.

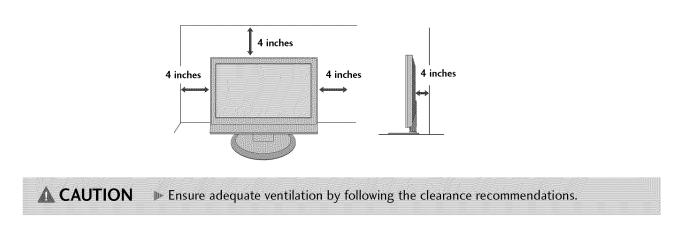


NOTE

Screw length needed depends on the wall mount used. For further information, refer to the VESA Wall Mounting Instruction Guide.

DESKTOP PEDESTAL INSTALLATION

For proper ventilation, allow a clearance of 4inches on all four sides from the wall.



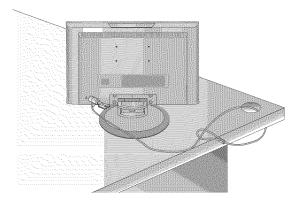
KENSINGTON SECURITY SYSTEM

- The TV is equipped with a Kensington Security System connector on the back panel. Connect the Kensington Security System cable as shown below.
- For the detailed installation and use of the Kensington Security System, refer to the user's guide provided with the Kensington Security System.

For further information, contact http://www.kensington.com, the internet homepage of the Kensington company. Kensington sells security systems for expensive electronic equipment such as note-book PCs and LCD projectors.

NOTE

- The Kensington Security System is an optional accessory.



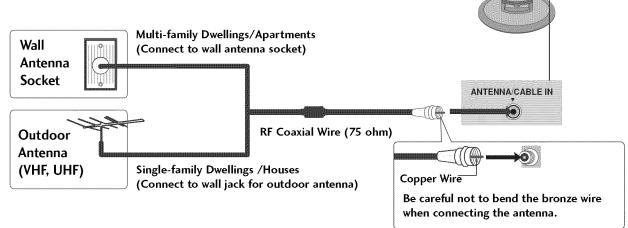
PREPARATION

ANTENNA OR CABLE CONNECTION

1. Antenna (Analog or Digital)

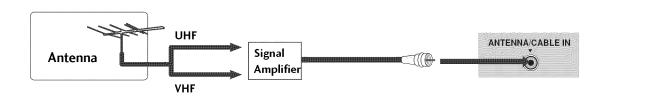
Wall Antenna Socket or Outdoor Antenna without a Cable Box Connections.

For optimum picture quality, adjust antenna direction if needed.



2. Cable





To improve the picture quality in a poor signal area, please purchase a signal amplifier and install properly.

- If the antenna needs to be split for two TV's, install a 2-Way Signal Splitter.
- If the antenna is not installed properly, contact your dealer for assistance.

NOTE The TV will let you know when the analog, cable, and digital channel scans are complete.

EXTERNAL EQUIPMENT SETUP

To prevent the equipment damage, never plug in any power cords until you have finished connecting all equipment.

HD RECEIVER SETUP

This TV can receive Digital Over-the-air/Cable signals without an external digital set-top box. However, if you do receive digital signals from a digital set-top box or other digital external device, refer to the figure as shown below.

When connecting Component cable

1. How to connect

Connect the video outputs (Y, PB, PR) of the digital set top box to the **COMPONENT IN VIDEO** jacks on the set. Match the jack colors

(Y = green, PB = blue, and PR = red).



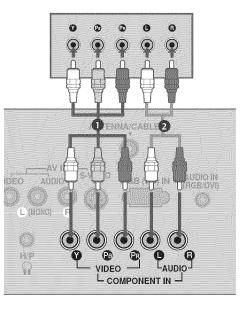
Connect the audio output of the digital set-top box to the **COMPONENT IN AUDIO** jacks on the set.

2. How to use

Turn on the digital set-top box.
 (Refer to the owner's manual for the digital set-top box. operation)

Select Component input source by using the INPUT button on the remote control.

Signal	Component	HDMI
480i	Yes	No
480p	Yes	Yes
720p	Yes	Yes
1080i	Yes	Yes
1080p	Yes	Yes



Y, CB/PB, CR/PR

Resolution	Horizontal Frequency(KHz)	Vertical Frequency(Hz)
720x480i	15.73 15.73	59.94 60.00
720x480p	31.47 31.50	59.94 60.00
1280x720p	44.96 45.00	59.94 60.00
1920x1080i	33.72 33.75	59.94 60.00
1920x1080p	27.00 33.75 67.43 67.50	24.00 30.00 59.94 60.00

EXTERNAL EQUIPMENT SETUP

When connecting HDMI cable

1. How to connect



Connect the digital set-top box to HDMI/DVI IN jack on the set.



EXTERNAL EQUIPMENT SETUP

No separated audio connection is necessary. HDMI supports both audio and video.

2. How to use

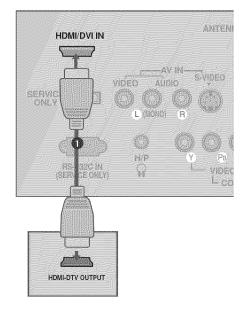
- Turn on the digital set-top box.(Refer to the owner's manual for the digital set-top box.)
- Select HDMI input source by using the INPUT button on the remote control.

NOTE

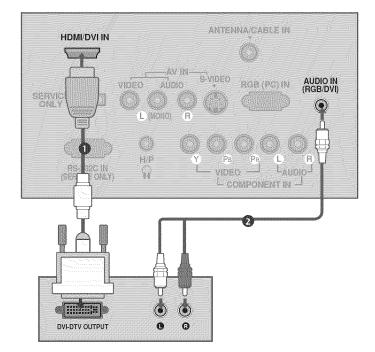
- ▶ When connected, the TV will tell a connected device what resolution it supports and the resolution it prefers. If the device supports this Auto HDMI function, the player output resolution will be automatically set to 720p.
- ▶ If the device does not support Auto HDMI, you need to set the output resolution appropriately.



Resolution	Horizontal Frequency(KHz)	Vertical Frequency(Hz)
720x480p	31.469 31.500	59.94 60.00
1280x720p	44.96 45.00	59.94 60.00
1920x1080i	33.72 33.75	59.94 60.00
1920x1080p	27.00 33.75 67.43 67.50	24.00 30.00 59.94 60.00



When connecting HDMI to DVI cable



1. How to connect

Connect the DVI output of the digital set-top box to the HDMI/DVI IN jack on the set.

Connect the audio output of the digital set-top box to the AUDIO IN (RGB/DVI) jack on the set.

2. How to use

2

- Turn on the digital set-top box. (Refer to the owner's manual for the digital set-top box.)
- Select HDMI input source by using the INPUT button on the remote control.

EXTERNAL EQUIPMENT SETUP

When connecting Component cable

1. How to connect



Connect the video outputs (Y, PB, PR) of the DVD to the **COMPONENT IN VIDEO** jacks on the set. Match the jack colors

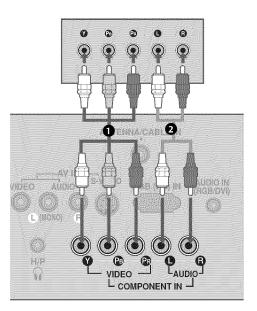
(Y = green, PB = blue, and PR = red).



Connect the audio outputs of the DVD to the **COMPONENT IN AUDIO** jacks on the set.

2. How to use

- Turn on the DVD player, insert a DVD.
- Select Component input source by using the INPUT button on the remote control.
- Refer to the DVD player's manual for operating instructions.



Component Input ports

To get better picture quality, connect a DVD player to the component input ports as shown below.

Component ports on the TV	Y	Рв	P _R
Video output ports on DVD player	Y Y Y Y	P⊪ B-Y Cb Pb	PR R-Y Cr Pr

When connecting with an S-Video cable

1. How to connect



Connect the S-VIDEO output of the DVD to the S-VIDEO input on the set.



Connect the audio outputs of the DVD to the **AUDIO** input jacks on the set.

2. How to use

- Turn on the DVD player, insert a DVD.
- Select AV input source by using the INPUT button on the remote control.
- Refer to the DVD player's manual for operating instructions.

When connecting HDMI cable

1. How to connect



Connect the HDMI output of the DVD to the HDMI/DVI IN jack on the set.

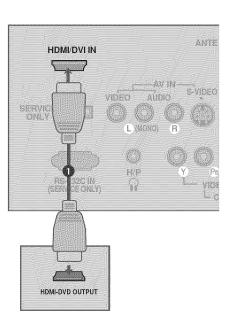
No separated audio connection is necessary. HDMI supports both audio and video.

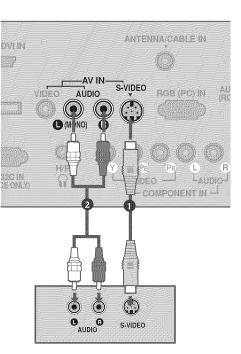
2. How to use

- Select HDMI input source by using the INPUT button on the remote control.
- Refer to the DVD player's manual for operating instructions.

NOTE

- ▶ When connected, the TV will tell a connected device what resolution it supports and the resolution it prefers. If the device supports this Auto HDMI function, the player output resolution will be automatically set to 720p.
- If the device does not support Auto HDMI, you need to set the output resolution appropriately.
 - To get the best picture quality, adjust the output resolution of the DVD to 720p.



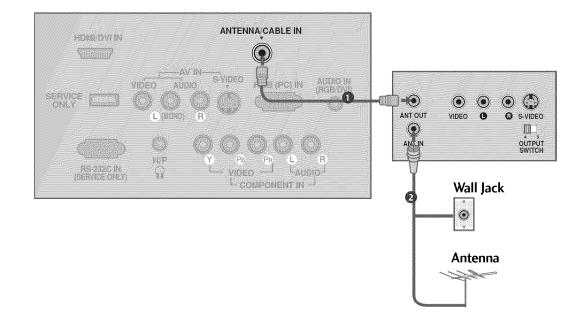


EXTERNAL EQUIPMENT SETUP

VCR SETUP

- To avoid picture noise (interference), leave an adequate distance between the VCR and TV.
- If the 4:3 picture format is used; the fixed images on the sides of the screen may remain visible on the screen. This phenomenon is common to all manufactures and in consequence the manufactures warranty does not cover the product bearing this phenomenon.

When connecting with an antenna



1. How to connect

Connect the RF antenna out socket of the VCR to the ANTENNA/CABLE IN socket on the set.

Connect the antenna cable to the RF antenna in socket of the VCR.

2. How to use

 $\mathbf{2}$

- Set VCR output switch to 3 or 4 and then tune TV to the same channel number.
- Insert a video tape into the VCR and press PLAY on the VCR. (Refer to the VCR owner's manual.)

When connecting with a RCA cable

1. How to connect

Connect the AUDIO/VIDEO jacks between TV and VCR. Match the jack colors (Video = yellow, Audio Left = white, and Audio Right = red)

2. How to use

- Insert a video tape into the VCR and press PLAY on the VCR. (Refer to the VCR owner's manual.)
- Select AV input source by using the INPUT button on the remote control.

NOTE

▶ If you have a mono VCR, connect the audio cable from the VCR to the AUDIO L/MONO jack of the set.

When connecting with an S-Video cable

1. How to connect



Connect the S-VIDEO output of the VCR to the S-VIDEO input on the set.

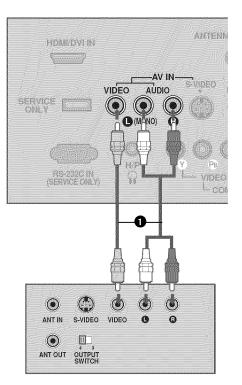
Connect the audio outputs of the VCR to the **AUDIO** input jacks on the set.

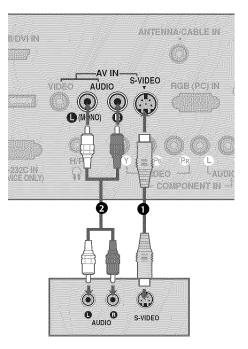
2. How to use

- Insert a video tape into the VCR and press PLAY on the VCR. (Refer to the VCR owner's manual.)
- Select AV input source by using the INPUT button on the remote control.



The picture quality is improved: compared to normal composite (RCA cable) input.





A CAUTION

Do not connect to both Video and S-Video at the same time. In the event that you connect both Video and the S-Video cables, only the S-Video will work.

EXTERNAL EQUIPMENT SETUP

HEADPHONE SETUP

You can listen to the sound through the headphone.

1. How to connect

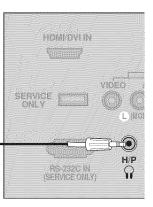


2)

Plug the headphone into the headphone socket.

To adjust the headphone volume, press the VOL + or - button. If you press the MUTE button, the sound from the headphone is switched off.





PC SETUP

This TV provides Plug and Play capability, meaning that the PC adjusts automatically to the TV's settings.

When connecting D-sub 15pin cable

1. How to connect



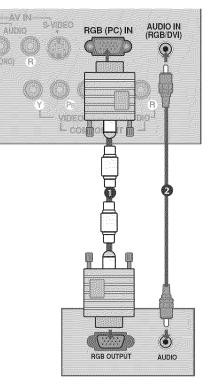
Connect the RGB output of the PC to the **RGB (PC) IN** jack on the set.



Connect the PC audio output to the **AUDIO IN** (**RGB/DVI**) jack on the set.

2. How to use

- Turn on the PC and the TV.
- Select RGB-PC input source by using the INPUT button on the remote control.



When connecting HDMI to DVI cable

1. How to connect



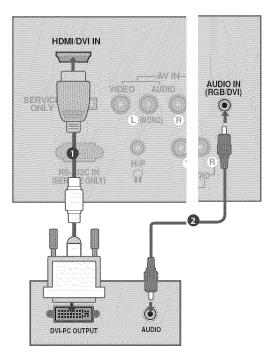
2

Connect the DVI output of the PC to the HDMI/DVI IN jack on the set.

Connect the PC audio output to the AUDIO IN (RGB/DVI) jack on the set.

2. How to use

- Turn on the PC and the TV.
- Select HDMI input source by using the INPUT button on the remote control.



EXTERNAL EQUIPMENT SETUP

- To get the the best picture quality, adjust the PC graphics card to 1680x1050 (22inches)/ 1440x900 (19inches).
- Depending on the graphics card, DOS mode may not work if a HDMI to DVI Cable is in use.
- If the video doesn't fit the screen, try pressing the ADJUST button to adjust the screen position of TV.
- Check the image on your TV. There may be noise associated with the resolution, vertical pattern, contrast or brightness in PC mode. If noise is present, change the PC output to another resolu-

tion, change the refresh rate to another rate or adjust the brightness and contrast on the PIC-TURE menu until the picture is clear. If the refresh rate of the PC graphic card can not be changed, change the PC graphic card or consult the manufacturer of the PC graphic card.

- Avoid keeping a fixed image on the screen for a long period of time. The fixed image may become permanently imprinted on the screen.
- The synchronization input form for Horizontal and Vertical frequencies is separate.

Jupported	Dispidy	specifications	
RGB-PC, HDMI/	DVI-PC mod	de	

Sunnarted Display Specifications

Resolution	Horizontal Frequency(KHz)	Vertical Frequency(Hz)	
640x350	31.469	70.08 •	* RGB-PC mode only
720x400	31.469	70.08 🛯 🗨 🚽	
640x480	31.469	59.94	
800x600	37.879	60.31	
1024x768	48.363	60.00	
1280x768	47.776	59.87	
1360x768 RGB-PC	47.712	60.01	
1360x768 HDMI-PC	47.720	59.799	
1366x768	47.13	59.65	
1440x900	55.50	59.90	
1400x1050 (22 inches only)	64.744	59.948	
1680x1050 (22 inches only)	62.290	59.954	

Screen Setup for PC mode

Overview

When the RGB input of the set is connected to a PC output, select the RGB-PC as the main input mode.

After connecting RGB-PC to PC output and checking the screen quality.

When you change the resolution, select the proper resolution in present input to see the best picture appearance.

Adjustment for screen Resolution, Position, Size, and Phase



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Press the ADJUST button and then use \blacktriangle or \triangledown button to select **Resolution**, **Position**, **Size**, or **Phase**.

- Press the **ENTER** button and then use $\blacktriangle \lor \checkmark \lor$ button to make appropriate adjustments.
- The Phase adjustment range is 0 ~ +63.
- The Size adjustment range is -30 ~ +30.

Press the ENTER button.

Auto Configuration and Initializing (Reset to original factory values)

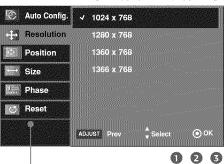
Press the ADJUST button and then use \blacktriangle or \checkmark button to select Auto. Config. or Reset.

Press the ENTER button and then use \blacktriangleleft or \blacktriangleright button to select Yes.



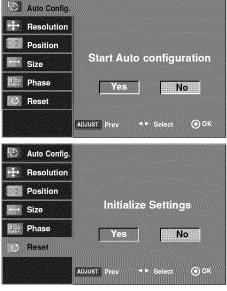
Press the ENTER button.





- Auto Config. This function is to adjust picture position and minimizes image shaking automatically.
 Resolution This function allows you select resolution of XGA/WXGA.

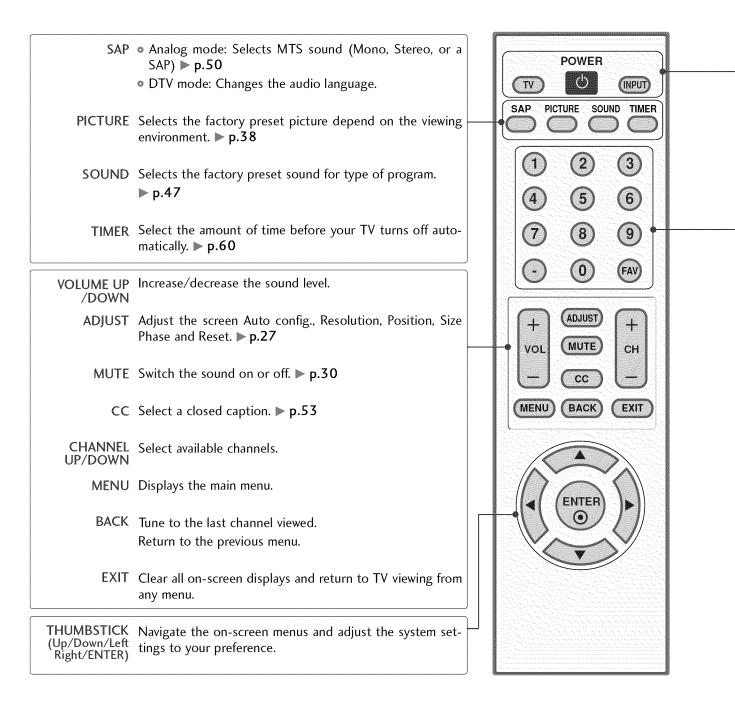
 Position
 This function is to adjust picture to left/right and up/down as you prefer.
- Size This function is to minimize any vertical bars or stripes visible on the screen background. And the horizontal screen size will also change.
- Phase This function allows you to remove any horizontal noise and clear or sharpen the image of characters. Reset This function is to initialize the
- adjusted value.



WATCHING TV / CHANNEL CONTROL

REMOTE CONTROL FUNCTIONS

When using the remote control, aim it at the remote control sensor on the TV.

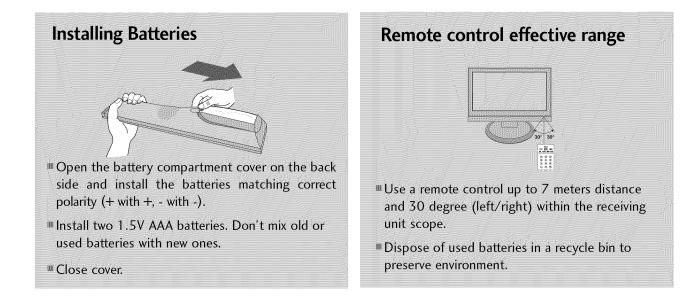


POWER Turns your TV on or off.

- TV In AV, Component, RGB-PC, and HDMI input sources, screen returns to the last TV channel.
- INPUT External input modes rotate in regular sequence: TV, AV, Component, RGB-PC, and HDMI. (AV, Component, RGB-PC, and HDMI input sources are linked automatically, only if a device is connected.)

NUMBER button

- (DASH) Used to enter a program number for multiple program channels such as 2-1, 2-2, etc.
 - FAV Scroll through the programmed Favorite channels. ► p.34



WATCHING TV / CHANNEL CONTROL

TURNING ON TV

First, connect power cord correctly. At this moment, the TV switches to standby mode. In standby mode to turn TV on, press the ७/۱, INPUT, CH (▲ or ▼) button on the TV or press the POWER, INPUT, TV, CH (+ or -), Number (0~9) button on the remote control.
Select the viewing source by using the INPUT button on the remote con- trol.
This TV is programmed to remember which power state it was last set to, even if the power cord is out.

When finished using the TV, press the POWER button on the remote



NOTE

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▶ If you intend to be away on vacation, disconnect the power plug from the wall power outlet.

CHANNEL SELECTION

control. The TV reverts to standby mode.

Press the CH (+ or -) or NUMBER buttons to select a channel number.

VOLUME ADJUSTMENT

Adjust the volume to suit your personal preference.



Press the VOL (+ or -) button to adjust the volume.



If you want to switch the sound off, press the MUTE button.



You can cancel the Mute function by pressing the MUTE or VOL (+ or -) button.



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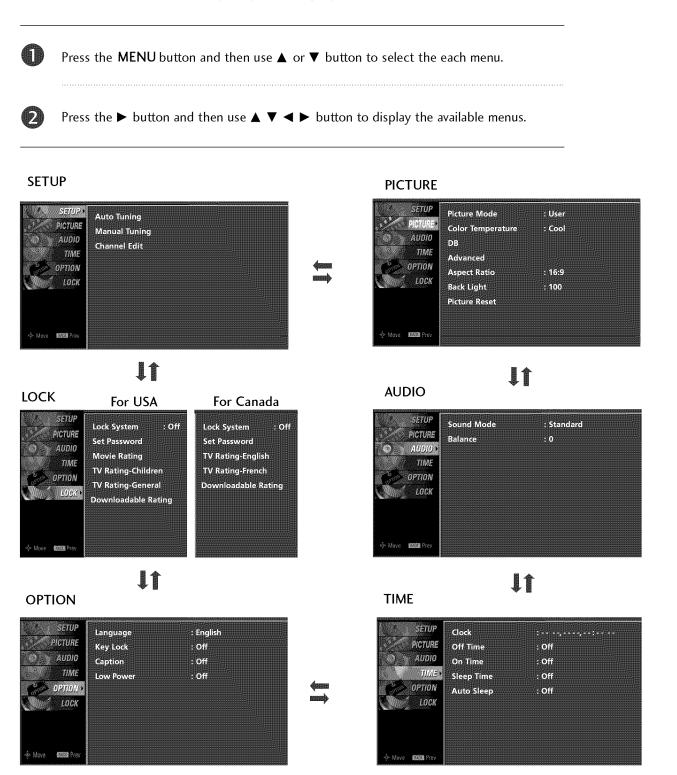
(MUTE)

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ON-SCREEN MENUS SELECTION

Your TV's OSD (On Screen Display) may differ slightly from what is shown in this manual.



WATCHING TV / CHANNEL CONTROL

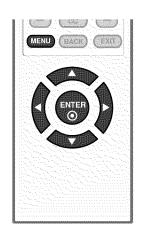
CHANNEL SEARCH

Auto Scan (Auto Tuning)

Automatically finds all channels available through antenna or cable inputs, and stores them in memory on the channel list.

Run Auto Tuning again after any Antenna/Cable connection changes.

A password is required to gain access to Auto Tuning menu if the Lock System is turned on.





Press the **MENU** button and then use \blacktriangle or \blacktriangledown button to select the **SETUP** menu.



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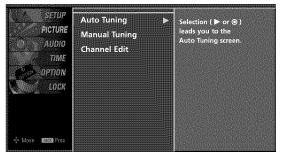
1

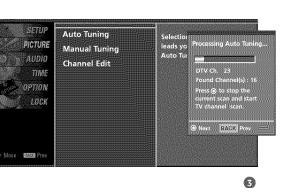
Press the \blacktriangleright button and then use \blacktriangle or \blacktriangledown button to select **Auto Tuning**.



Press the ENTER button to begin the channel search. Allow Auto Tuning to complete the channel search cycle for ANTENNA and CABLE.







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Select channel type and RF-Channel num

DTV



Press the **MENU** button and then use \blacktriangle or \blacktriangledown button to select the **SETUP** menu.

Add/Delete Channel (Manual Tuning)

A password is required to gain access to Manual Tuning

If selecting DTV or CADTV input signal, you can view the on-screen signal strength monitor to see the quality of the

menu if the Lock System is turned on.

signal being received.



Press the \blacktriangleright button and then use \blacktriangle or \blacktriangledown button to select Manual Tuning.



SETUP

PICTURE

AUDIO

OPTION

LOCK

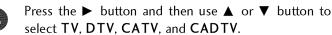
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TIME

Auto Tuning

Manual Tuning

Channel Edit





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Press the \blacktriangleright button and then use \blacktriangle or \blacktriangledown button to select channel you want to add or delete.

Press the ENTER button to add or delete the channel.

Press the **EXIT** button to return to TV viewing or press the **BACK** button to return to the previous menu.



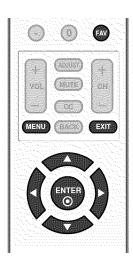
WATCHING TV / CHANNEL CONTROL

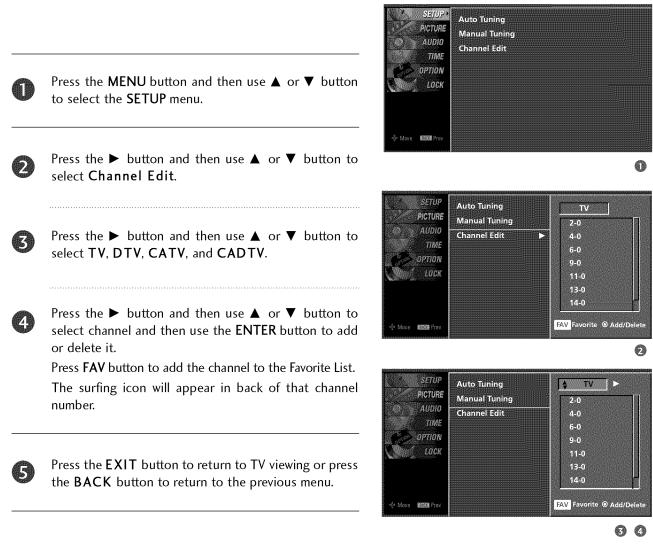
Channel Editing

There are two different ways in order to add or delete scanned channels. One is "Custom List" and the other is "Favorite List" in the channel list. Both of them are available after Auto Tuning on the SETUP menu.

A Custom List can be created by toggling each channel on or off with ENTER button.

You can create your own Favorite List. Use the FAV button on the remote control when a channel is highlighted and then add or delete the channel to/from your Favorite List.





KEY LOCK

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

This feature can be used to prevent unauthorized viewing by locking out the front panel controls.

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



: English

: Off

: Off

: Off





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Press the MENU button and then use \blacktriangle or \blacktriangledown button to select the OPTION menu.

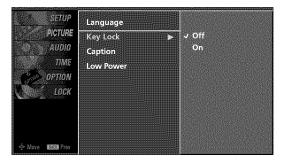
Press the \blacktriangleright button and then use \blacktriangle or \blacktriangledown button to select **Key Lock**.



Press the \blacktriangleright button and then use \blacktriangle or \triangledown button to select **On** or **Off**.



Press the **EXIT** button to return to TV viewing or press the **BACK** button to return to the previous menu.



SETUP

PICTURE

AUDIO

TIME

OPTION LOCK

Kales Pre-

Language

Key Lock

Caption

Low Power

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NOTE

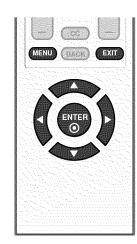
PICTURE SIZE (ASPECT RATIO) CONTROL

This feature allows an analog picture with a 4:3 aspect ratio is displayed on your TV. 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.

If a fixed image is displayed on the screen for a long time, the image may

This phenomenon is common to all manufactures and in consequence the manufactures warranty does not cover the product bearing this phenomenon.

RGB-PC input source use 4:3 or 16:9 aspect ratio.



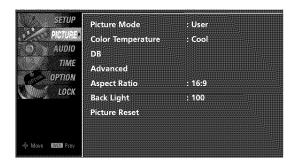
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Press the **MENU** button and then use \blacktriangle or \blacktriangledown button to select the **PICTURE** menu.

become imprinted on the screen and remain visible.



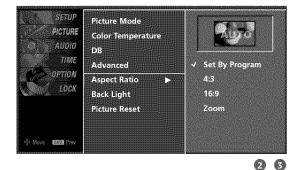
Press the \blacktriangleright button and then use \blacktriangle or \triangledown button to select **Aspect Ratio**.





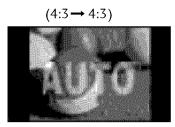
Press the \blacktriangleright button and then use \blacktriangle or \triangledown button to select the desired picture option (Set By Program, 4:3, 16:9, or Zoom).

Press the **EXIT** button to return to TV viewing or press the **BACK** button to return to the previous menu.



Set by program

Selects the proper picture proportion to match the source's image.



(16:9→ 16:9)



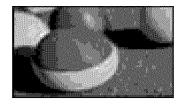
4:3

Choose 4:3 when you want to view a picture with an original 4:3 aspect ratio.



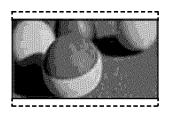
16:9

Adjust the picture horizontally, in a linear proportion to fill the entire screen.



Zoom

Choose Zoom when you want to view the picture without any alteration. However, the top and bottom portions of the picture will be cropped.



PRESET PICTURE SETTINGS

Picture Mode - Preset

Picture Mode adjusts the TV for the best picture appearance. Select the preset value in the Picture Mode menu based on the program category.

Dynamic, **Standard**, **Mild** Settings are preset for the optimum picture quality at the factory and are not adjustable.

In the **User** mode only, user can directly adjust the contrast, brightness, color, sharpness, tint.



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Press the **PICTURE** button repeatedly to select the picture

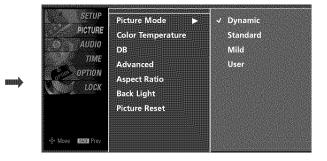
Dynamic, Standard, Mild, and User (your own settings).

Press the **EXIT** button to save and return to TV viewing.

• You can also use the PICTURE menu to adjust Picture Mode.

SETUP	Picture Mode	: User	
• PICTURE •	Color Temperature	: Cool	
O AUDIO	DB		
TIME	Advanced		
OPTION	Aspect Ratio	: 16:9	
LOCK	Back Light	: 100	
	Picture Reset		
-6- Maya 1993 Prev			

appearance setup option as below :



Color Tone - Preset

Choose one of three automatic color adjustments. Set to warm to enhance hotter colors such as red, or set to cool to see less intense colors with more blue.

When selecting Picture Mode options (Dynamic, Standard and Mild), Color Temperature is automatically change. When selecting Picture Mode options (User), you can choose the Color Temperature.





Press the MENU button and then use \blacktriangle or \blacktriangledown button to select the PICTURE menu.



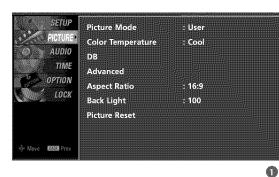
Press the \blacktriangleright button and then use \blacktriangle or \blacktriangledown button to select **Color Temperature**.

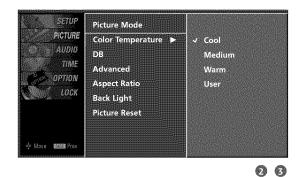


Press the \blacktriangleright button and then use \blacktriangle or \blacktriangledown button to select either **Cool**, **Medium**, **Warm** or **User**.



Press the **EXIT** button to return to TV viewing or press the **BACK** button to return to the previous menu.





MANUAL PICTURE ADJUSTMENT

Picture Mode - User Mode

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



Press the MENU button and then use \blacktriangle or \blacktriangledown button to select the PICTURE menu.



Press the \blacktriangleright button and then use \blacktriangle or \blacktriangledown button to select **Picture Mode**.



Press the \blacktriangleright button and then use \blacktriangle or \blacktriangledown button to select **User**.



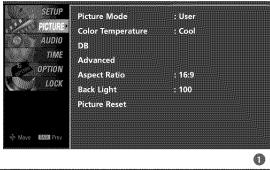
Press the ► button and then use ▲ or ▼ button to select the desired picture option (Contrast, Brightness, Color, Sharpness, or Tint).

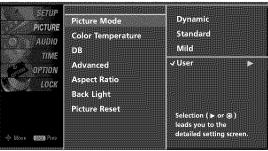


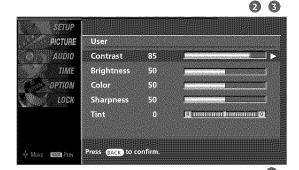
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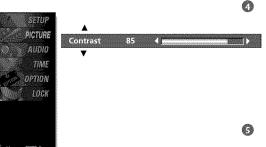
Press the \blacktriangleright button and then use \blacktriangleleft or \blacktriangleright button to make appropriate adjustments.

Press the **EXIT** button to return to TV viewing or press the **BACK** button to return to the previous menu.



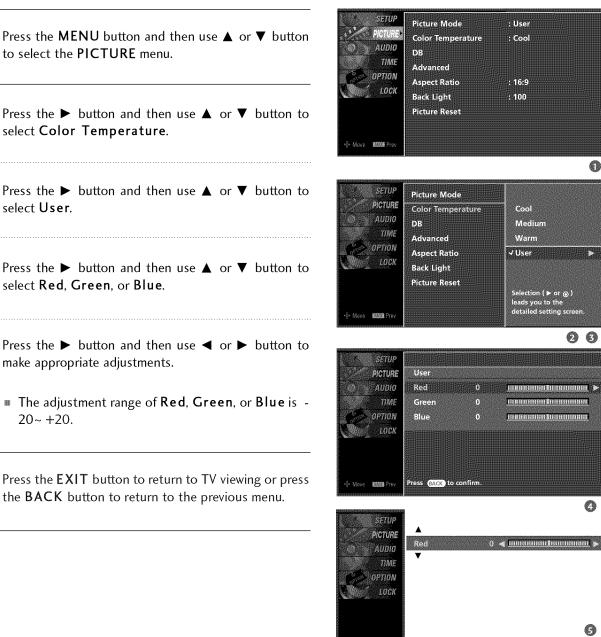








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Color Tone - User Mode

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You can also adjust the detailed settings (Red, Green, Blue)

by selecting the Color Temperature-User menu. This feature operate only if the picture mode set User.

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DIGITAL BOOSTER

Digital Booster is Zenith's unique picture improving technology to display a real HD source through an advanced digital signal processing algorithm.

When selecting Picture Mode options (Dynamic, Standard, and Mild), DB is automatically changed to Auto.

When selecting Picture Mode option (User), you can choose the Auto / Manual.

When selecting the Manual, you can adjust the DB Contrast, DB Color and DB Noise.



: User

: Cool



Press the **MENU** button and then use \blacktriangle or \blacktriangledown button to select the **PICTURE** menu.



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Press the \blacktriangleright button and then use \blacktriangle or \checkmark button to select DB.

Press the \blacktriangleright button and then use \blacktriangle or \blacktriangledown button to

DB Color: Adjusting the colors of the reflec-

possible to the natural colors.

tion automatically to reproduce as closely as

DB Noise : Removing the noise up to the point where it does not damage the original

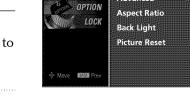
2. Use the \blacktriangle or \checkmark button to select **On** or **Off**.

select Auto or Manual.

Selecting the Manual

the reflection.

picture.



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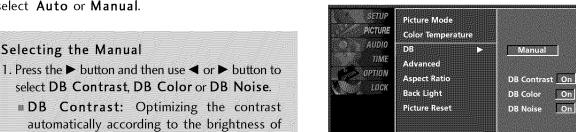
SETUP

AUDIO

Picture Mode

Color Temperature





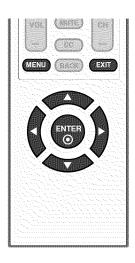




Press the **EXIT** button to return to TV viewing or press the **BACK** button to return to the previous menu.

ADVANCED - BLACK (DARKNESS) LEVEL

Adjusting the contrast and the brightness of the screen using the black level of the screen. This feature operates only in AV or HDMI mode.

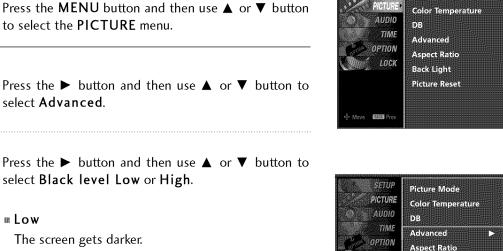


: User

: Cool

: 16:9

: 100



SETUP

Picture Mode

PICTURE CONTROL



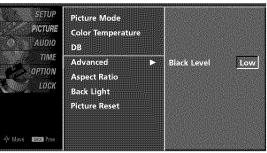
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Press the \blacktriangleright button and then use \blacktriangle or \blacktriangledown button to select Advanced.

- select Black level Low or High.
 - Low
 - The screen gets darker.
 - M High
 - The screen gets brighter.



Press the EXIT button to return to TV viewing or press the **BACK** button to return to the previous menu.



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BACK LIGHT

Adjust the brightness of LCD panel to control the brightness of screen.



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PICTURE CONTROL

Press the MENU button and then use ▲ or ▼ button to select the PICTURE menu.

Press the \blacktriangleright button and then use \blacktriangle or \triangledown button to select **Back Light**.

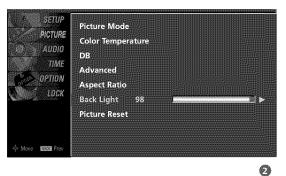


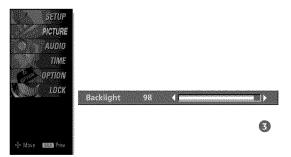
Press the \blacktriangleright button and then use \blacktriangleleft or \blacktriangleright button to make appropriate adjustments.



Press the **EXIT** button to return to TV viewing or press the **BACK** button to return to the previous menu.

SETUP	Picture Mode	: User
··· PICTURE	Color Temperature	: Cool
O AUDIO	DB	
TIME	Advanced	
OPTION	Aspect Ratio	: 16:9
LOCK	Back Light	: 100
	Picture Reset	
-S- Move Prev		





LOW - POWER PICTURE MODE

Low power reduces the display power consumption.



: English

: Off

: Off

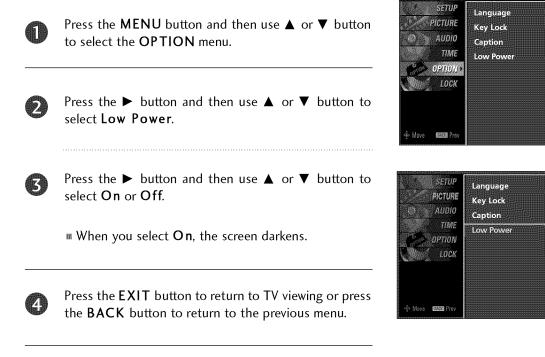
: Off

√ Off

On



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PICTURE RESET

Use to quickly reset all the Picture menu options to their original factory preset values.



Press the **MENU** button and then use \blacktriangle or \blacktriangledown button to select the **PICTURE** menu.

Press the ► button to reset the Picture menu options

Press the \blacktriangleright button and then use \blacktriangle or \blacktriangledown button to select **Picture Reset**.

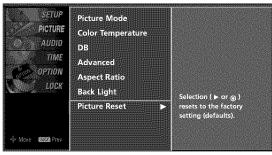
to original values.

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SETUP Picture Mode : User ICTURE **Color Temperature** : Cool AUDIO DB TIME Advanced OPTION Aspect Ratio : 16:9 LOCK Back Light : 100 Picture Reset Move MINI Prev



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SOUND & LANGUAGE CONTROL

PRESET SOUND SETTINGS (SOUND MODE)

Sound Mode lets you enjoy the best sound without any special adjustment because the TV sets the appropriate sound options based on the program content.

Standard, Music, Movie, and Sports are preset for good sound quality at the factory and are not adjustable.



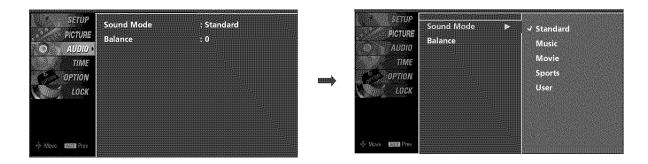


Press the **SOUND** button repeatedly to select the appropriate sound setup as below : **Standard**, **Music**, **Movie**, **Sports**, and **User** (your own settings).



Press the EXIT button to save and return to TV viewing.

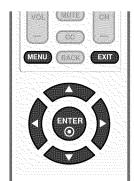
WYOU can also adjust **Sound Mode** in the AUDIO menu.



SOUND & LANGUAGE CONTROL

SOUND SETTING ADJUSTMENT - USER MODE

Adjust the sound to suit your taste and room situations.



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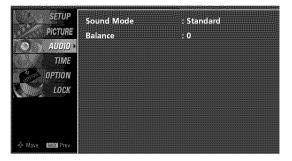
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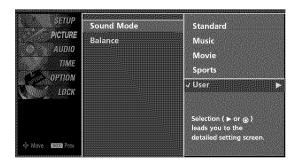
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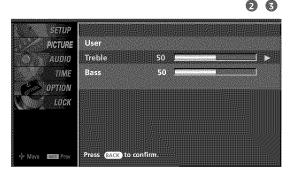
Press the MENU button and then use ▲ or ▼ button to select the AUDIO menu.

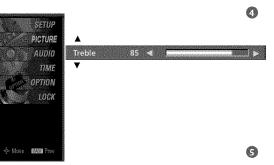
- Press the \blacktriangleright button and then use \blacktriangle or \triangledown button to select **Sound Mode**.
- Press the ► button and then use ▲ or ▼ button to select **User**.
- Press the \blacktriangleright button and then use \blacktriangle or \triangledown button to select the desired sound option (**Treble** or **Bass**).
- Press the ► button and then use ◄ or ► button to make appropriate adjustments.
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Press the **EXIT** button to return to TV viewing or press the **BACK** button to return to the previous menu.







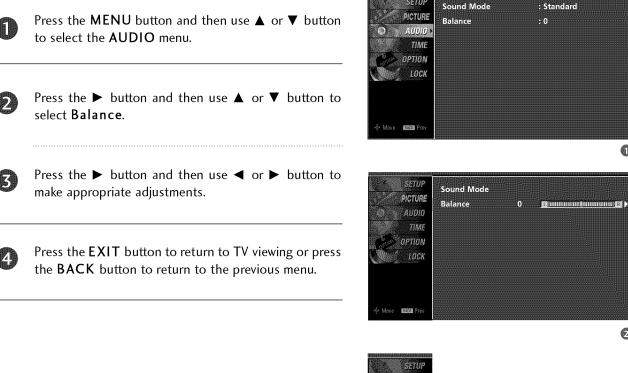


BALANCE

Adjust the left/right sound of speaker to suit your taste and room situations.



: Standard



SETUP

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SOUND & LANGUAGE CONTROL

STEREO/SAP BROADCASTS SETUP

This TV can receive MTS stereo programs and any SAP (Secondary Audio Program) that accompanies the stereo program if the station transmits an additional sound signal as well as the original one and when you select Stereo or SAP on the remote control.

Mono sound is automatically received if the broadcast is only in Mono; even though Stereo or SAP has been selected.

Select Mono if you want to listen to the mono sound in remote areas during stereo/SAP broadcasting.

Stereo or SAP can be received in Analog channel.

Use the SAP button to select your desired MTS mode in analog signal. Each time you press the SAP button, Mono, Stereo, or SAP appear in turn.

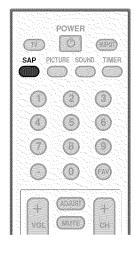
If other languages available on the digital signal, select them with the **SAP** button.

(

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6D

Press EXIT button to save and return to TV viewing.



AUDIO LANGUAGE

Other languages may be available if a digital signal is provided by the broadcasting station. This feature operates only in DTV/CADTV mode.



: English

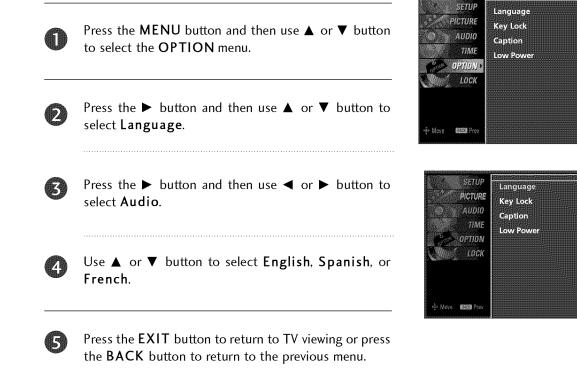
: Off

: Off

: Off

Menu

Audio



SOUND & LANGUAGE CONTROL

0

English

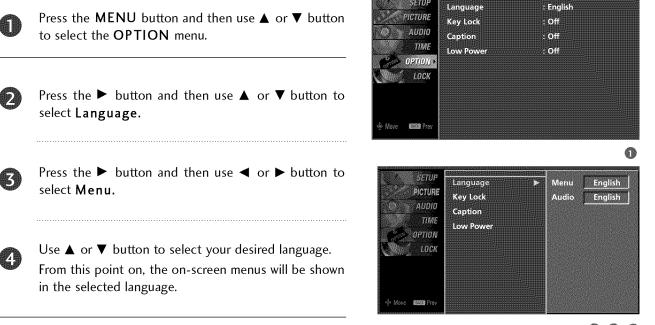
English

SOUND & LANGUAGE CONTROL

ON-SCREEN MENUS LANGUAGE SELECTION

The menus can be shown on the screen in the selected language. First select your language.





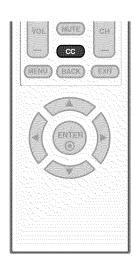
SETUR

Press the EXIT button to return to TV viewing or press the BACK button to return to the previous menu.

000

CAPTION MODE

Caption must be provided to help people with hearing loss watch TV.





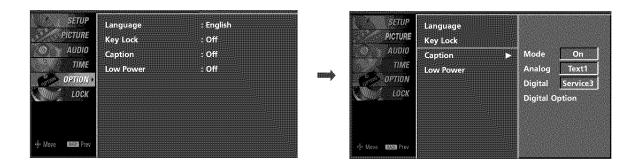
Use the CC button to select Caption On or Off.

When selecting Off, Sub-menus for Analog, DTV, and Digital Option become disabled.

2

Press the **EXIT** button to save and return to TV viewing.

WYou can also adjust **Caption** in the OPTION menu.



SOUND & LANGUAGE CONTROL

Analog Broadcasting System Captions

Select a caption mode for displaying captioning information if provided on a program. Analog caption displays information at any position on the screen and is usually the program's dialog.

Caption/Text, if provided by the broadcaster, would be available for both digital and analog channels on the Antenna/Cable.

This TV is programmed to memorize the caption/text mode which was last set when you turn the power off.

This function is only available when **Caption** Mode is set **On**.



Press the **MENU** button and then use \blacktriangle or \blacktriangledown button to select the **OPTION** menu.

Press the \blacktriangleright button and then use \blacktriangle or \triangledown button to select **Caption**.



Press the \blacktriangleright button and then use \blacktriangleleft or \blacktriangleright button to select **Analog**.

Use \blacktriangle or \blacktriangledown button to select CC1 ~ 4, Text1 ~ 4

CAPTION

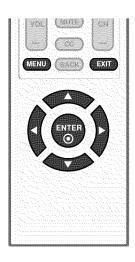
The term for the words that scroll across the bottom of the TV screen; usually the audio portion of the program provided for the hearing impaired.

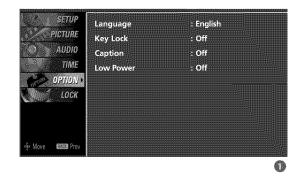
IN TEXT

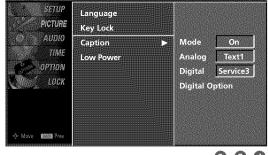
The term for the words that appear in a large black frame and almost cover the entire screen; usually messages provided by the broadcaster.



Press the **EXIT** button to return to TV viewing or press the **BACK** button to return to the previous menu.









Choose the language you want the DTV/CADTV Captions to appear in.

Other Languages can be chosen for digital sources only if they are included on the program.

This function in only available when Caption Mode is set On.





2

Press the **MENU** button and then use \blacktriangle or \checkmark button to select the **OPTION** menu.

Press the \blacktriangleright button and then use \blacktriangle or \blacktriangledown button to select **Caption**.

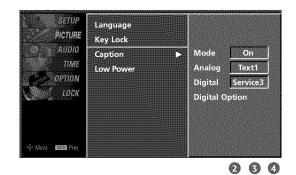


Press the \blacktriangleright button and then use \blacktriangleleft or \blacktriangleright button to select **Digital**.

Use ▲ or ▼ button to select Service1 ~ Service6.

Press the **EXIT** button to return to TV viewing or press the **BACK** button to return to the previous menu.

SETUP	Language	: English	
PICTURE	Key Lock	: Off	
🔿 💊 AUDIO	Caption	: Off	
TIME	Low Power	: Off	
OPTION ·			
Соск			
🔹 Move 📾 Prev			
			0



SOUND & LANGUAGE CONTROL

Caption Option

Customize the DTV/CADTV captions that appear on your screen.

This function in only available when **Caption** Mode is set **On**.

0

Press the **MENU** button and then use \blacktriangle or \blacktriangledown button to select the **OPTION** menu.



Press the \blacktriangleright button and then use \blacktriangle or \blacktriangledown button to select **Caption**.



3

Press the \blacktriangleright button and then use \blacktriangleleft or \blacktriangleright button to select **Digital Option**.



Press the \blacktriangleright button and then use \blacktriangle or \blacktriangledown button to select **Custom**.



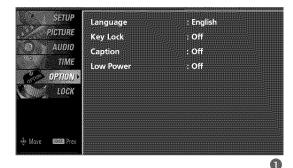
Use \blacktriangleleft or \blacktriangleright button to customize the **Style**, **Font**, etc., to your preference.

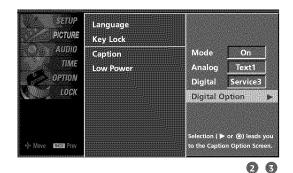
A preview icon is provided at the bottom of the screen, use it to see the caption language.

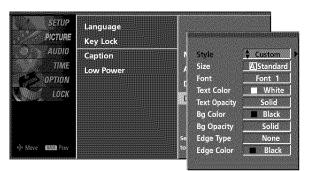
- Size : Set the word size.
- **Font**: Select a typeface for the text.
- Text Color : Choose a color for the text.
- **Text Opacity**: Specify the opacity for the text color.
- Bg (Background) Color : Select a background color.
- Bg (Background) Opacity : Select the opacity for the background color.
- **Edge Type**: Select an edge type.
- **Edge Color**: Select a color for the edges.

Press the **EXIT** button to return to TV viewing or press the **BACK** button to return to the previous menu.









TIME SETTING

CLOCK SETTING

Auto Clock Setup

The time is set automatically from a digital channel signal. The digital channel signal includes information for the current time provided by the broadcasting station. Set the clock manually if the current time is set incorrectly by the auto clock function.





2

Press the **MENU** button and then use \blacktriangle or \blacktriangledown button to select the **TIME** menu.

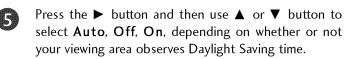
Press the \blacktriangleright button and then use \blacktriangle or \blacktriangledown button to select **Clock**.



Press the \blacktriangleright button and then use \blacktriangle or \blacktriangledown button to select **Auto**.



Press the ► button and then use ▲ or ▼ button to select your viewing area time zone: Eastern, Central, Mountain, Pacific, Alaska or Hawaii.



6

Press the **EXIT** button to return to TV viewing or press the **BACK** button to return to the previous menu.





TIME SETTING

Manual Clock Setup

If the current time setting is wrong, reset the clock manually.





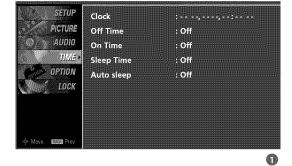
2)

3

Press the **MENU** button and then use \blacktriangle or \blacktriangledown button to select the **TIME** menu.

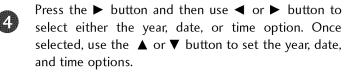


Press the \blacktriangleright button and then use \blacktriangle or \blacktriangledown button to select **Clock**.



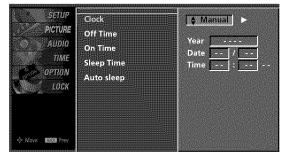


Press the \blacktriangleright button and then use \blacktriangle or \blacktriangledown button to select Manual.





Press the **EXIT** button to return to TV viewing or press the **BACK** button to return to the previous menu.



AUTO ON/OFF TIME SETTING

This function operates only if the current time has been set. The **Off Time** function overrides the **On Time** function if they are both set to the same time.

The TV must be in standby mode for the **On Time** to work. If you do not press any button within 2 hours after the TV turns on with the **On Time** function, the TV will automatically revert to standby mode.



: Off

: Off

: Off

: Off



Press the **MENU** button and then use \blacktriangle or \blacktriangledown button to select the **TIME** menu.



Press the \blacktriangleright button and then use \blacktriangle or \triangledown button to select **Off Time** or **On Time**.



Press the \blacktriangleright button and then use \blacktriangle or \blacktriangledown button to select **On**.

To cancel the On/Off time function, select Off.



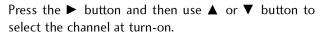
Press the \blacktriangleright button and then use \blacktriangle or \blacktriangledown button to set the hour.



Press the \blacktriangleright button and then use \blacktriangle or \blacktriangledown button to set the minutes.



Only On Time



Press the \blacktriangleright button and then use \blacktriangle or \blacktriangledown button to set the sound level at turn-on.

Press the **EXIT** button to return to TV viewing or press the **BACK** button to return to the previous menu.



SETUP

PICTURE

AUDIO

OPTION

LOCK

Clock

Off Time

On Time

Sleep Time

Auto sleep

TIME SETTING

SLEEP TIME SETTING

The Sleep Time turns the TV off at the preset time. Note that this setting is cleared when the TV is turned off.





Press the **TIMER** button repeatedly to select the number of minutes. First the **Off** option appears on the screen, followed by the following sleep timer options : 10, 20, 30, 60, 90, 120, 180, and 240 minutes.



When the number of minutes you want is displayed on the screen, press the **ENTER** button. The timer begins to count down from the number of minutes selected.



To check the remaining minutes before the TV turns off, press the **TIMER** button once.



To cancel the Sleep Time, press the **TIMER** button repeatedly to select **Off**.

WYOU can also set up the Sleep Time in the TIME menu.

SETUP	Clock	
PICTURE	Off Time	: Off
AUDIO	On Time	: Off
TIME •	Sleep Time	: Off
OPTION	Auto sleep	: Off
LOCK		
- Move Mare Prev		

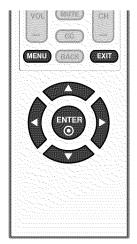
SETUP	Clock	√ Off
PICTURE	Off Time	10 min
AUDIO	On Time	20 min
TIME	Sleep Time	▶ 30 min
OPTION	Auto sleep	60 min
LOCK		90 min
		120 min
		180 min
- St Move Room Prev		240 min

0

AUTO SHUT-OFF SETTING

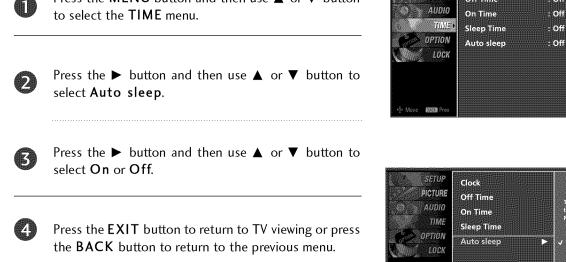
If set to on and there is no input signal, the TV turns off automatically after 10 minutes.

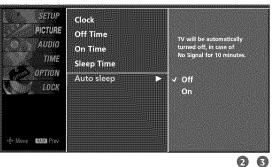
Press the **MENU** button and then use \blacktriangle or \blacktriangledown button



: Oct 19, 2007, 03:44 AM

: Off





SETUP

PICTURE

Clock

Off Time

PARENTAL CONTROL / RATINGS

Parental Control can be used to block specific ratings.

The Parental Control Function (V-Chip) is used to block program viewing based on the ratings sent by the broadcasting station. The default setting is to allow all programs to be viewed. Viewing can be blocked by choosing the type of the program and the categories. It is also possible to block all program viewing for a time period. To use this function, the following must be done :

- 1. Set ratings and categories to be blocked.
- 2. Specify a password
- 3. Enable the lock

V-Chip rating and categories

Rating guidelines are provided by broadcasting stations. Most television programs and television movies can be blocked by TV Rating and/or Individual Categories. Movies that have been shown at the theaters or direct-to-video movies use the Movie Rating System (MPAA) only.

Ratings for Television programs including made-for-TV movies :

- **TV-G** (General audience)
- **TV-PG** (Parental guidance suggested)
- TV-14 (Parents strongly cautioned)

- TV-MA (Mature audience only)
- TV-Y (All children)
- TV-Y7 (Children 7 years older)

SET PASSWORD & LOCK SYSTEM

Setting up Your Password

Set up blocking schemes to block specific ratings. A password is required to gain access to this menu.



Press the **MENU** button and then use the \blacktriangle or \blacktriangledown button to select the LOCK menu. Then, press the \triangleright button.

- Enter the password as requested.
- The TV is set up with the initial password "0-0-0-0".



Set Password

Change the password by inputting a new password twice.



After inputting the password, use the \blacktriangle or \triangledown button to choose **Set password**.

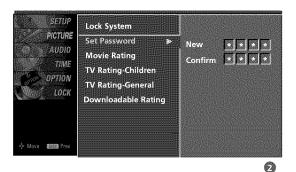
Press the ► button and then choose any 4 digits for your new password.

As soon as the 4 digits are entered, re-enter the same 4 digits on the **Confirm**.

Then your changed password has been memorized.

Press the **EXIT** button to return to TV viewing or press the **BACK** button to return to the previous menu.

SETUI Lock System : Off PICTURE Set Password AUDIO **Movie Rating** TIM TV Rating-Children OPTION TV Rating-General Downloadable Rating



If you ever forget your password, key in '7', '7', '7' on the remote control.

Lock System

Enables or disables the blocking scheme you set up previously.



After inputting the password, use the \blacktriangle or \triangledown button to choose **Lock System**.

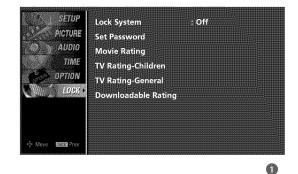


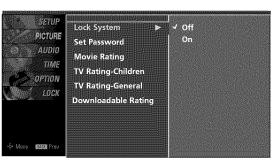
Press the \blacktriangleright button and then use the \blacktriangle or \triangledown button to select **On** or **Off**.

 \blacksquare When you select \mathbf{On} , the Lock System is enable.



Press the **EXIT** button to return to TV viewing or press the **BACK** button to return to the previous menu.

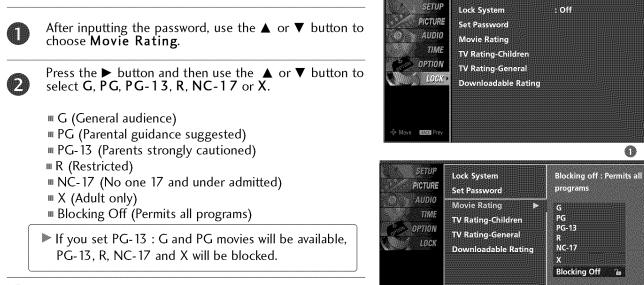




PARENTAL CONTROL /RATINGS

MOVIE & TV RATING Movie Rating (MPAA)

Blocks movies according to the movie ratings limits specified, 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 movies shown on TV, not TV programs, such as soap operas.



🔆 Move 🗰 Pre

Press **EXIT** button to return to TV viewing or press **BACK** button to return to the previous menu.

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TV Rating Children

Prevents children from watching certain children's TV programs, according to the ratings limit set. The children rating does not apply to other TV programs. Unless you block certain TV programs intended for mature audiences in the TV Rating - sub menu, your children can view those programs.



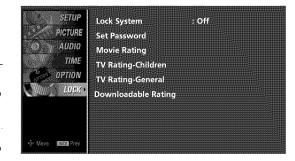
After inputting the password, use the \blacktriangle or \blacktriangledown button to choose TV Rating-Children.

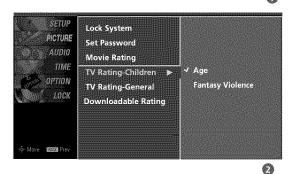
Press the ► button and then use the ▲ or ▼ button to select Age, or Fantasy Violence.

Press the \blacktriangleright button and then use the \blacktriangle or \blacktriangledown button to select block options.

- Age(applies to TV-Y, TV-Y7)
- Fantasy Violence(applies to TV-Y7)

Press the **EXIT** button to return to TV viewing or press the **BACK** button to return to the previous menu.





TV Rating General

Based on the ratings, blocks certain TV programs that you and your family do not want to view.

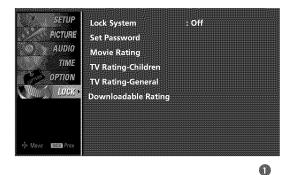


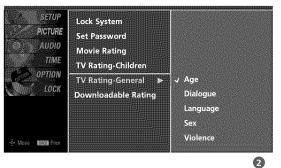
2

After inputting the password, use the \blacktriangle or \checkmark button to choose TV Rating-General.

- Press the \blacktriangleright button and then use the \blacktriangle or \lor button to select Age, Dialogue, Language, Sex or Violence. Press the \blacktriangleright button and then use the \blacktriangle or \blacktriangledown button to select block options.
 - Age(applies to TV-G,TV-PG,TV-14,TV-MA)
 - Dialogue-sexual dialogue (applies to TV-PG, TV-14)
 - Language-adult language (applies to TV-PG, TV-14, TV-MA)
 - Sex-sexual situations (applies to TV-PG,TV-14,TV-MA)
 - Violence (applies to TV-PG,TV-14,TV-MA)

Press the **EXIT** button to return to TV viewing or press the **BACK** button to return to the previous menu.



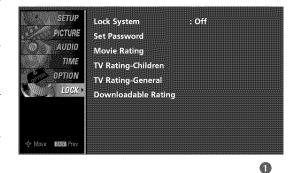


PARENTAL CONTROL /RATINGS

Downloadable Rating

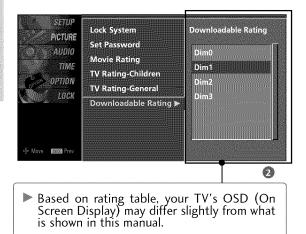
D	After inputting the password, use the \blacktriangle or \blacktriangledown button t choose Downloadable Rating .	:0
5	Press the \blacktriangleright button and then use the \blacktriangle or \blacktriangledown button t	to

- select Dim0, Dim1, Dim2, or Dim3.
- Press the \blacktriangleright button and then use the \blacktriangle or \checkmark button to select D1L1, D1L2, or D1L3.
- Press EXIT button to return to TV viewing or press BACK button to return to the previous menu.



NOTE

- This function may become available in the future and will be available only for digital channel signal.
- This function operates only when TV has received Region5 Rating data.



TROUBLESHOOTING

The operation does not work normally.			
The remote control doesn't work	 Check to see if there is any object between the product and the remote control causing obstruction. Ensure you are pointing the remote control directly at the TV. Ensure that the batteries are installed with correct polarity (+ to +, - to -). Ensure that the correct remote operating mode is set: TV, VCR etc. Install new batteries. 		
Power is suddenly turned off	 Is the sleep timer set? Check the power control settings. Power interrupted. No broadcast on station tuned with Auto off activated. 		

The video function does	s not work.
No picture &No sound	 Check whether the product is turned on. Try another channel. The problem may be with the broadcast. Is the power cord inserted into wall power outlet? Check your antenna direction and/or location. Test the wall power outlet, plug another product's power cord into the outlet where the product's power cord was plugged in.
Picture appears slowly after switching on	■ This is normal, the image is muted during the product startup process. Please contact your service center, if the picture has not appeared after five minutes.
No or poor color or poor picture	 Adjust Color in menu option. Keep a sufficient distance between the product and the VCR. Try another channel. The problem may be with the broadcast. Are the video cables installed properly? Activate any function to restore the brightness of the picture.
Horizontal/vertical bars or picture shaking	■ Check for local interference such as an electrical appliance or power tool.
Poor reception on some channels	 Station or cable product experiencing problems, tune to another station. Station signal is weak, reorient antenna to receive weaker station. Check for sources of possible interference.
Lines or streaks in pictures	Check antenna (Change the direction of the antenna).

The audio function does not work.			
Picture OK & No sound	 Press the VOL or VOLUME button. Sound muted? Press MUTE button. Try another channel. The problem may be with the broadcast. Are the audio cables installed properly? 		
No output from one of the speakers	Adjust Balance in menu option.		
Unusual sound from inside the product	A change in ambient humidity or temperature may result in an unusual noise when the product is turned on or off and does not indicate a fault with the product.		

There is a problem in PC mode. (Only PC mode applied)			
The signal is out of range	Adjust resolution, horizontal frequency, or vertical frequency.Check the input source.		
Vertical bar or stripe on background & Horizontal Noise & Incorrect position	■ Work the Auto configure or adjust clock, phase, or H/V position. (Option)		
Screen color is unstable or single color	 Check the signal cable. Reinstall the PC video card. 		

MAINTENANCE

Early malfunctions can be prevented. Careful and regular cleaning can extend the amount of time you can enjoy your new TV.

Caution: Be sure to turn the power off and unplug the power cord before you begin any cleaning.

Cleaning the Screen

2

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.

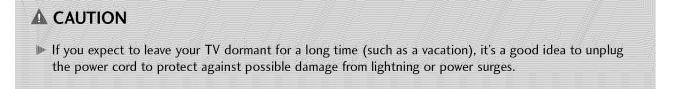
Make sure the excess water is off the screen, and then let it air-dry before you turn on your TV.

Cleaning the Cabinet

To remove dirt or dust, wipe the cabinet with a soft, dry, lint-free cloth.

Please be sure not to use a wet cloth.

Extended Absence



PRODUCT SPECIFICATIONS

The specifications shown above may be changed without prior notice for quality improvement.

MODELS		Z19LCD3 (Z19LCD3-UA)	Z22LCD3 (Z22LCD3-UA)
	Including stand	18.0 x 15.6 x 9.1 inches	20.7 x 17.3 x 9.1 inches
Dimensions		456.8 x 395.0 x 230.0 mm	525.4 x 439.0 x 230.0 mm
(Width x Height x Depth)	Excluding stand	18.0 x 14.5 x 2.8 inches	20.7 x 16.3 x 2.7 inches
		456.8 x 368.5 x 70.5 mm	525.4 x 413.0 x 68.6 mm
Weight	including stand	11.5 pounds / 5.2 kg	12.8 pounds / 5.8 kg
	excluding stand	10.1 pounds / 4.6 kg	11.5 pounds / 5.2 kg
Power requirement		AC100-240\	/ ~ 50/60Hz
Television System		NTSC-M, ATSC, 64 & 256 QAM	
Program Coverage		VHF 2-13, UHF 14-69, CATV 1-135, DTV 2-69, CADTV 1-135	
External Antenna Impedance		75 0	ohm
	 Operating Temperature	32 ~ 104°F	(0 ~ 40°C)
	Operating Humidity	Less than 80%	
Environment condition			
	Storage Temperature	-4 ~ 140°F (-20 ~ 60°C)	
	Storage Humidity	Less than 85%	

