



PLASMA TV

OWNER'S MANUAL

MODELS: 50PY2DR
50PY2DR-UA
60PY2DR
60PY2DR-UA
50PX4DR
50PX4DR-UA



Please read this manual carefully and completely before operating your TV.

Retain this manual for future reference.

Record model number and serial number of the TV in the spaces provided below.

See the label attached on the back cover and relate this information to your dealer if you require service.

Model Number :

Serial Number :

Warning/Caution



WARNING/CAUTION:

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

FCC NOTICE

• A 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 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. 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
1-800-243-0000
<http://www.lgusa.com>

WARNING/CAUTION

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

TV Guide On Screen Notices for U.S.A.

Trademark Notice

In the United States, TV GUIDE and other related marks are registered marks of Gemstar-TV Guide International, Inc. and/or one of its affiliates. In Canada, TV GUIDE is a registered mark of Transcontinental Inc., and is used under license by Gemstar-TV Guide International, Inc.

Aux Etats Unis TV GUIDE et d'autres marques relatives sont des marques déposées de Gemstar-TV Guide International, Inc. et/ou d'une de ses sociétés affiliées. Au Canada TV GUIDE est une marque déposée de Transcontinental Inc., utilisée sous licence de Gemstar-TV Guide International, Inc.

License Notice

The TV Guide On Screen system is manufactured under license from Gemstar-TV Guide International, Inc. and/or one of its affiliates.

Le système TV Guide On Screen est fabriqué sous licence de Gemstar-TV Guide International, Inc. et/ou d'une de ses sociétés affiliées.

Patent Notice

The TV Guide On Screen system is protected by one or more of the following issued United States patents 6,498,895, 6,418,556, 6,331,877; 6,239,794; 6,154,203; 5,940,073; 4,908,713; 4,751,578; 4,706,121.

Le système TV Guide On Screen est protégé par un ou plusieurs brevets émis aux Etats Unis, comme le 6,498,895, 6,418,556, 6,331,877; 6,239,794; 6,154,203; 5,940,073; 4,908,713; 4,751,578; 4,706,121.

Use of the CableCARD™ TradeMark.

"CableCARD™ is a trademark of Cable Television Laboratories, Inc."

Digital Cable Compatibility

This digital television is capable of receiving basic analog, digital basic and digital premium cable television programming by direct connection to a cable system providing such programming. A security card provided by your cable operator is required to view encrypted digital programming. Certain advanced interactive digital cable services such as video-on-demand, cable operator enhanced program (For example, electronic program guide provided by the cable operator), and data enhanced television service may require the use of a set top box. For more information contact your local cable operator.

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 :

- 1. Read these instructions.**
- 2. Keep these instructions.**
- 3. Heed all warnings.**
- 4. Follow all instructions.**
- 5. Do not use this apparatus near water.**
- 6. Clean only with dry cloth.**
- 7. Do not block any ventilation openings. Install in accordance with the manufacturer's instructions.**
- 8. Do not install near any heat sources such as radiators, heat registers, stoves, or other apparatus (including amplifiers) that produce heat.**
- 9. 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.**
- 10. Protect the power cord from being walked on or pinched particularly at plugs, convenience receptacles, and the point where they exit from the apparatus.**
- 11. Only use attachments/accessories specified by the manufacturer.**
- 12. 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.**



13. Unplug this apparatus during lightning storms or when unused for long periods of time.

14. 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.

15. 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.

16. Outdoor Use Marking :

WARNING - To Reduce The Risk Of Fire Or Electric Shock, Do Not Expose This Appliance To Rain Or Moisture.

17. 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 the apparatus.

Contents

Warning/Caution	2
Digital Cable Compatibility	3
Safety Instructions	4~5

Introduction

Controls/Connection Options	8~11
Remote Control Key Functions	12~13

Installation

Accessories	14
Installation Instructions	14~18
Joining the TV assembly to the wall to protect the set tumbling	14
Install the RING SPACER with the bolts on the set as shown	15
Remove or Attache the Plate Cover	17
Swivel function	18
Arrangement wires	18
External Equipment Connections	19~25
Antenna or Cable Connection	19~20
VCR Setup	20
External A/V Source Setup	21
DVD Setup	21
CableCARD™ Setup	22
HDSTB Setup	22
PC Setup	23~24
Monitor Out Setup	25
Digital Audio Output	25
HDMI	26~28
TV Guide On Screen Setup	29~35

Operation

Turning the TV On	36
HOME Menu	37
TV Setup	38~56
On-screen Menus Language Selection	38
Setup Menu Options	
EZ Scan (Channel Search)	39
Manual Scan	39
Channel Edit	40
DTV Signal Strength	40
Channel Label Setup	41
Main Picture Source Selection	41
Input Label	41
Video Menu Options	
EZ Picture	42
Manual Picture Control (Custom Option)	42
Color Temperature Control	42
Video Reset	42
Audio Menu Options	
Audio Language	43
EZ SoundRite / EZ Sound	43
Manual Sound Control (custom Option)	44
Front Surround	44
TV Speakers On/Off Setup	45
Stereo/SAP Broadcasts Setup	45
BBE	45
Time Menu Options	
Auto Clock Setup	46
Manual Clock Setup	46
On/Off Timer Setup	46
Sleep Timer / Auto Off	47

Option Menu Features

Advanced	48
Cinema 3:2 Mode Setup	48
Low Power	48
LG Logo	49
Aspect Ratio Control	50
Caption	51
Caption / Text	51
Caption Option	52
ISM Method	53
Front Display	53
Auto Demo	54
Lock Menu Options	
Parental Lock Setup	56
XSTUDIO	
Recorded TV	57~61
Notes on Memory Card	62~75
Photo List	62~67
Music List	68~70
Timeshift	71~72
Recording	73~75
TV Guide On Screen™ System	76~96
IEEE 1394	97~108
CableCARD™ Function	
Cable menu options	109
Scrambled channel	109
Cable Channel List	110
Emergency Alert Message	110
Remote Control	
PIP (Picture-in-Picture)/Twin Picture	
Watching PIP/POP/Twin Picture	111
Selecting an Input Signal Source for PIP/Twin Picture	111
Swapping PIP/Twin Picture	111
TV Program Selection for PIP	111
Moving the PIP sub picture	112
Adjusting Main and Sub Picture Sizes for Twin Picture	112
POP (Picture-out-of-Picture: Channel Scan)	112
APM	113
Bried Info.	114
EZ Mute	115
Screen Setup for PC mode	116

External Control Device Setup	117~122
--	---------

IR Codes	123~124
-----------------------	---------

Programming the Remote	125
-------------------------------------	-----

Programming Codes	126~127
--------------------------------	---------

Troubleshooting Checklist	128
--	-----

Maintenance	129
--------------------------	-----

Product Specifications	130
-------------------------------------	-----

Warranty	131~132
-----------------------	---------

After reading this manual, keep it handy for future reference.

Introduction

What is a Plasma Display Panel (PDP)?

A plasma display panel is the latest display technology and the best way to achieve flat panel displays with excellent image quality and large screen sizes that are easily viewable. The PDP can be thought of as a descendant of the neon lamp and it can be also be viewed as a series of fluorescent lamps.

How does it work?

PDP is an array of cells, known as pixels, which are comprised of 3 sub pixels, corresponding to the colors red, green, and blue. Gas in a plasma state is used to react with phosphors in each sub-pixel to produce colored light (red, green, or blue). These phosphors are the same types used in Cathode Ray Tube (CRT) devices such as televisions and common computer monitors.

You get the rich, dynamic colors that you expect. Each sub-pixel is individually controlled by advanced electronics to produce over 16 million different colors. All of these mean that you get perfect images that are easily viewable in a display that is less than 5 inches thick.

160° - Wide angle range of vision

Your flat panel plasma screen offers an exceptionally broad viewing angle -- over 160 degrees. This means that the display is clear and visible to viewers anywhere in the room who can see the screen.

Wide Screen

The screen of the Plasma Display is so wide that your viewing experience is as if you are in a theater.

Multimedia

Connect your plasma display to a PC and you can use it for conferencing, games, and Internet browsing. The Picture-in-Picture feature allows you to view your PC and video images simultaneously.

Versatile

The light weight and thin size makes it easy to install your plasma display in a variety of locations where conventional TVs will not fit.

The PDP Manufacturing Process: a few minute colored dots may be present on the PDP screen

The PDP (Plasma Display Panel), which is the display device of this product, is composed of 0.9 to 2.2 million cells. A few cell defects will normally occur in the PDP manufacturing process. Several tiny, minute colored dots visible on the screen should be acceptable. This also occurs in other PDP manufacturers' products. The tiny dots appearing does not mean that this PDP is defective. Thus a few cell defects are not sufficient cause for the PDP to be exchanged or returned. Our production technology minimizes these cell defects during the manufacture and operation of this product.

Cooling Fan Noise

In the same way that a fan is used in a PC computer to keep the CPU (Central Processing Unit) cool, the PDP is equipped with cooling fans to cool the Monitor and improve its reliability. Therefore, a certain level of noise could occur while the fans are operating and cooling the PDP.

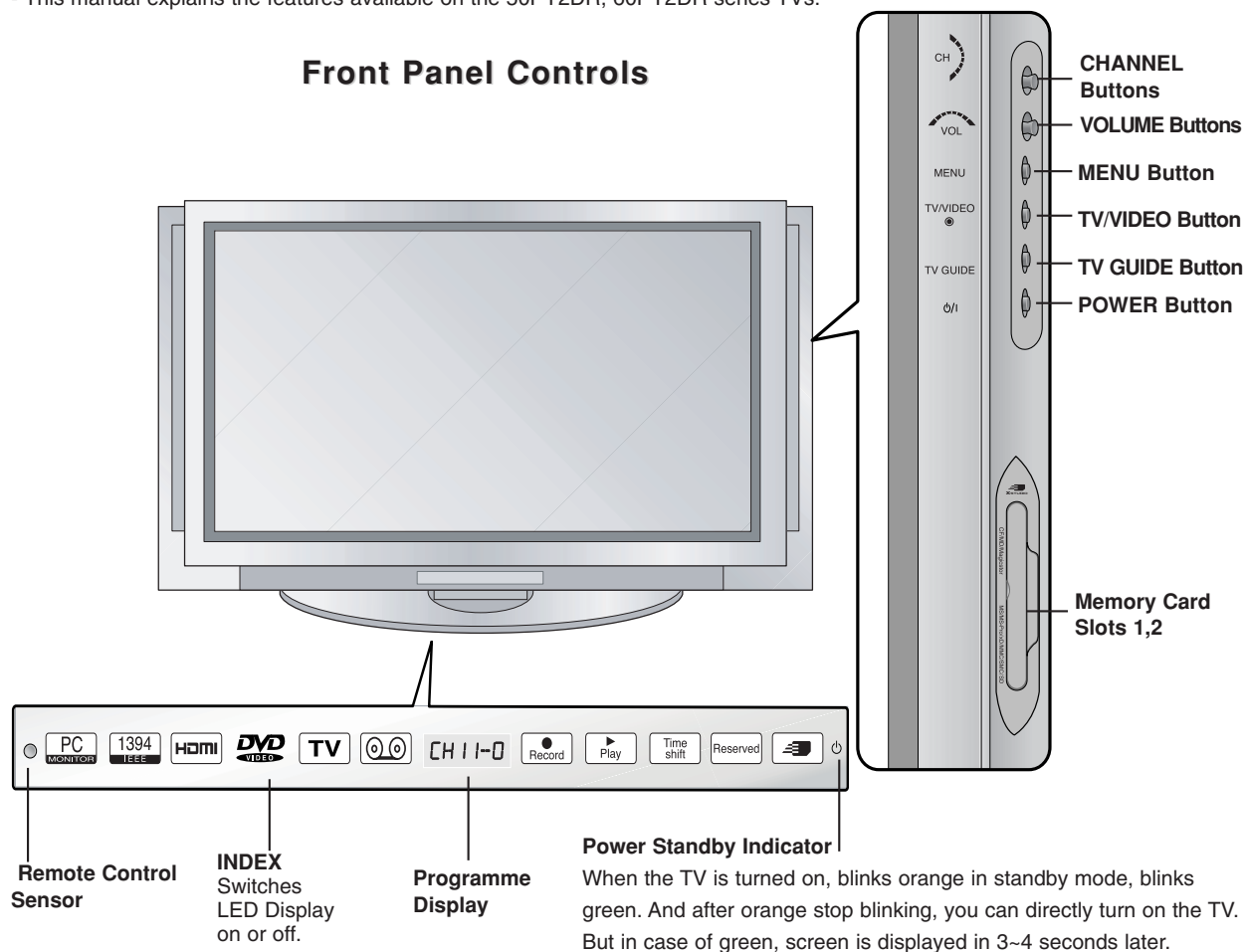
The fan noise doesn't have any negative effect on the PDP's efficiency or reliability. The noise from these fans is normal during the operation of this product. We hope you understand that a certain level of noise from the cooling fans is acceptable and is not sufficient cause for the PDP to be exchanged or returned.

Controls

◆ This is a front panel of 50PY2DR, 60PY2DR series TVs.

- This is a simplified representation of front panel.
Here shown may be somewhat different from your TV.
- This manual explains the features available on the 50PY2DR, 60PY2DR series TVs.

Front Panel Controls

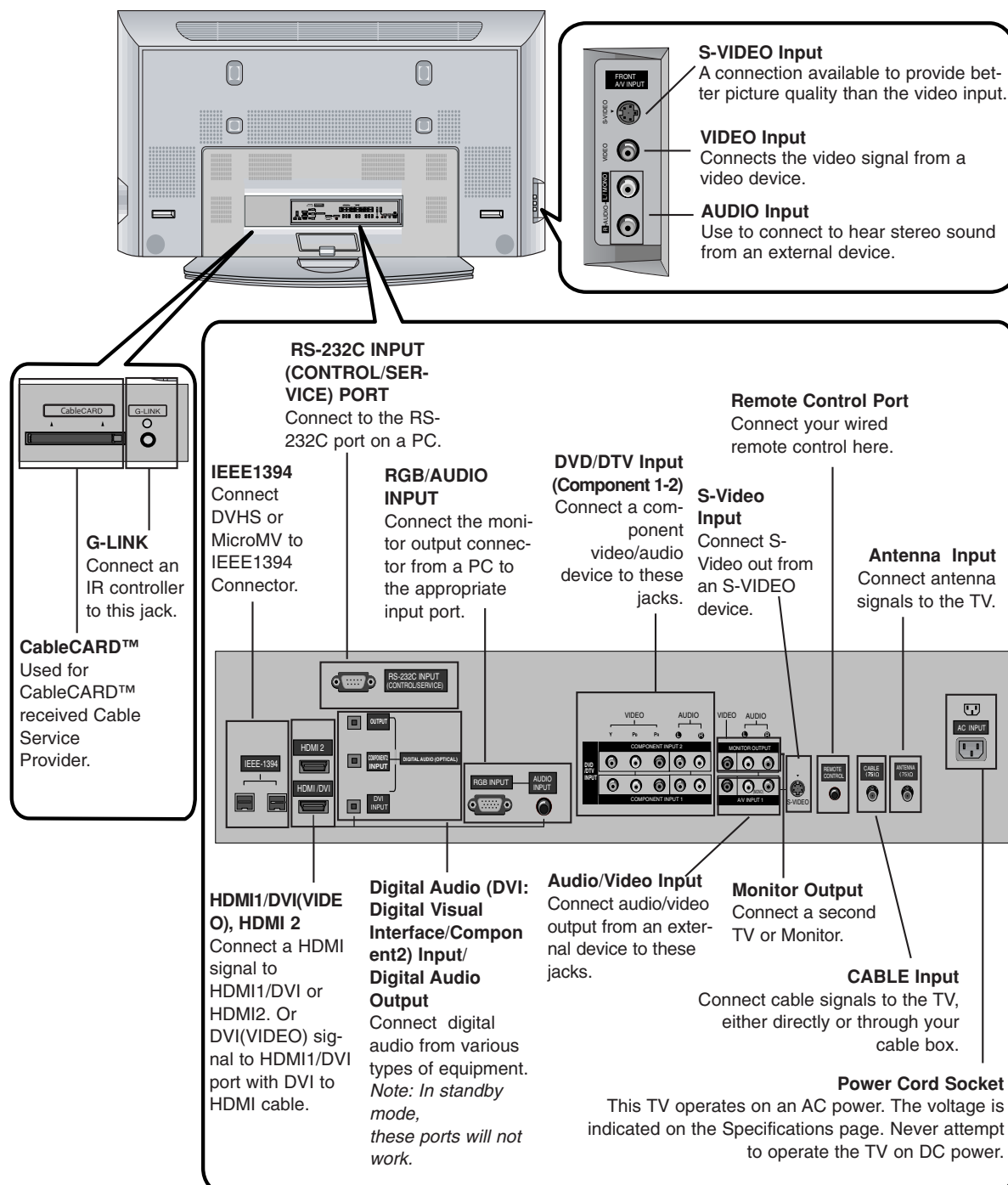


	RGB-PC(or RGB-DTV) mode		On recording
	IEEE1394 mode		On playing
	HDMI1/DVI or HDMI2 mode		On operating the TimeShift
	Component1 or 2 mode		On setting the reserve record
	Antenna or Cable mode		On operating the X-Studio mode
	Video or Front Video mode		

Connection Options

◆ This is a back panel of 50PY2DR, 60PY2DR series TVs.

Back Connection Panel



Note:

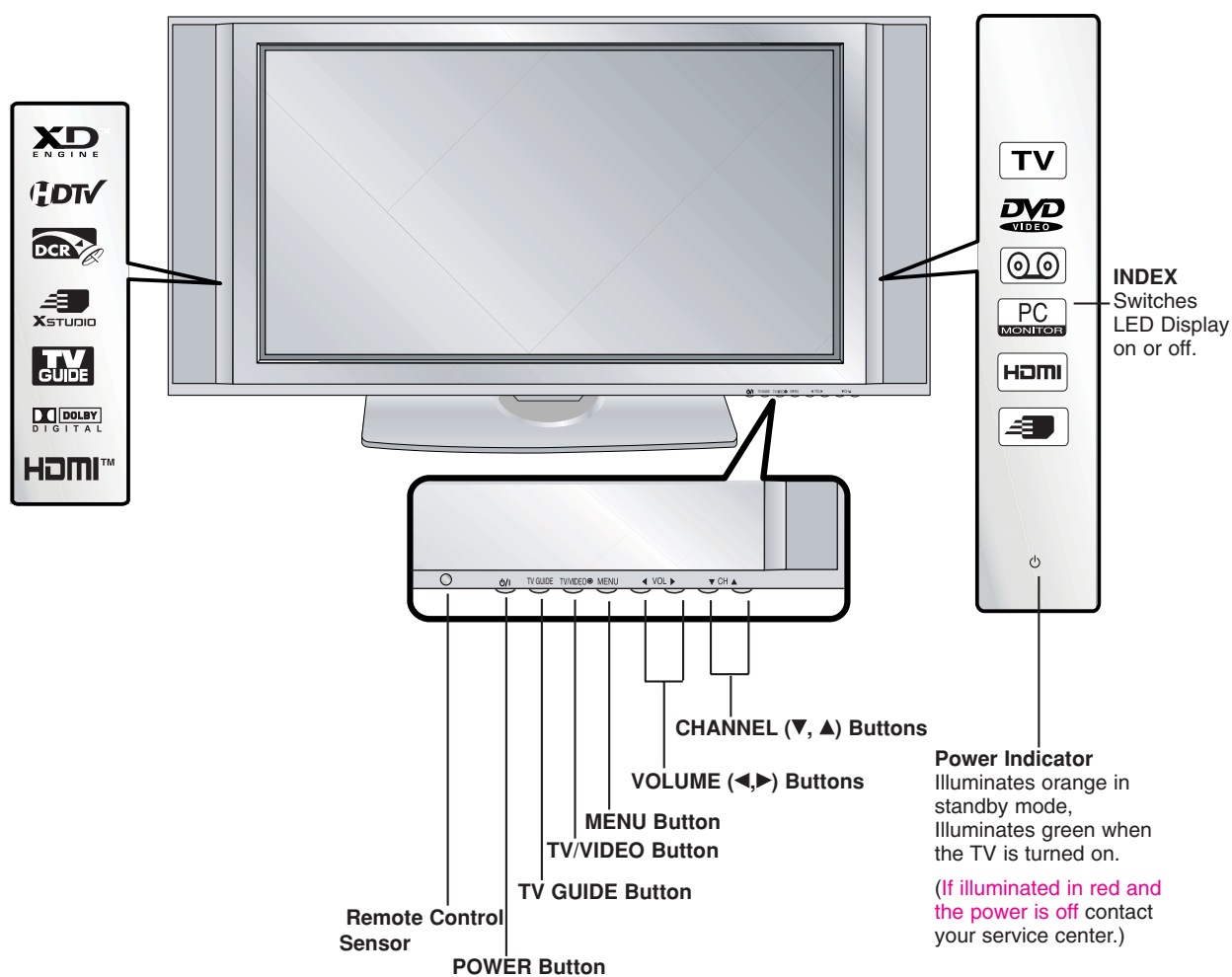
- After removing the cover, you can insert the CableCARD™ or connect to the G-LINK jack.

Controls

◆ **This is a front panel of 50PX4DR series TVs.**

- This is a simplified representation of front panel.
Here shown may be somewhat different from your TV.

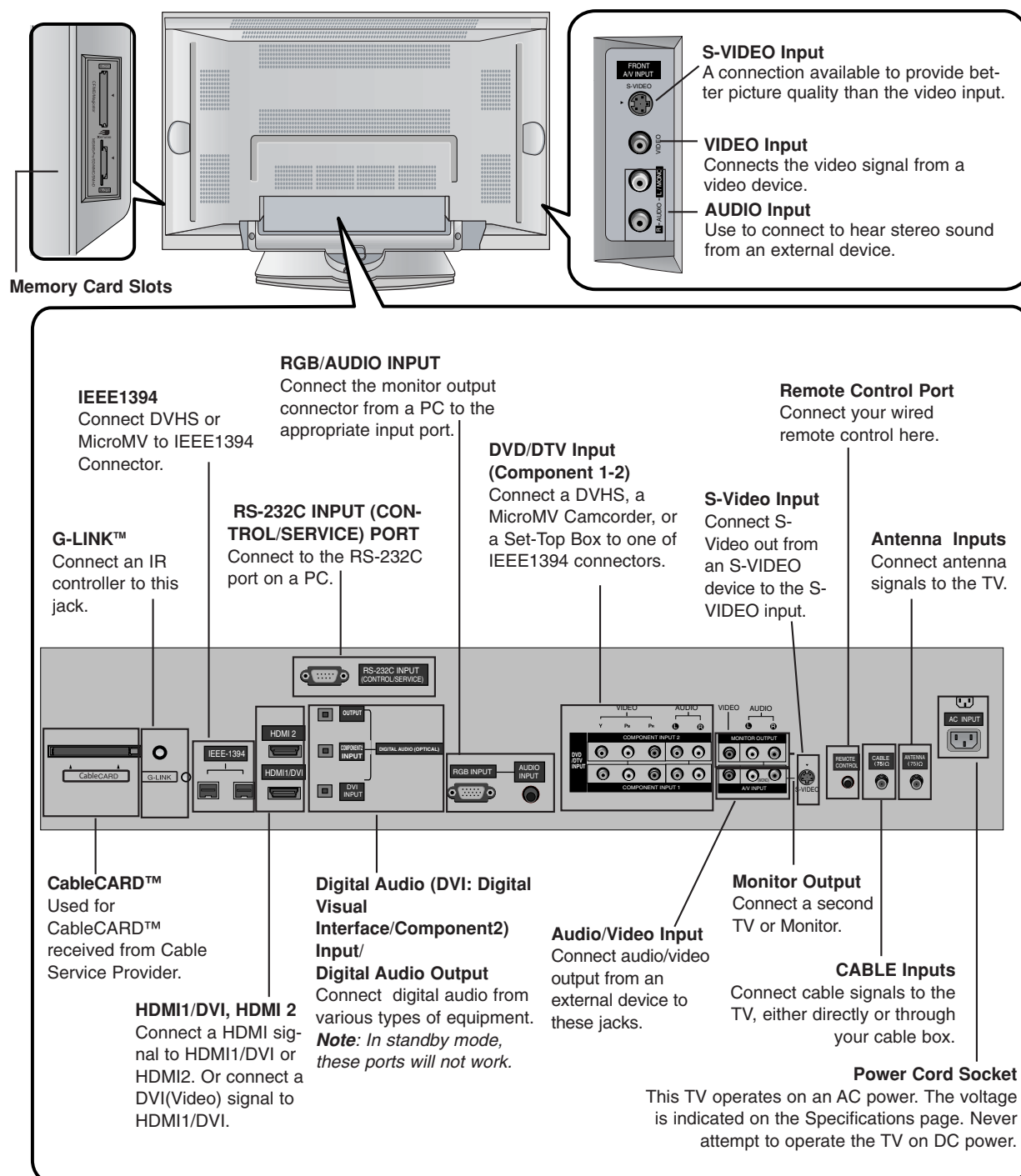
Front Panel Controls



Connection Options

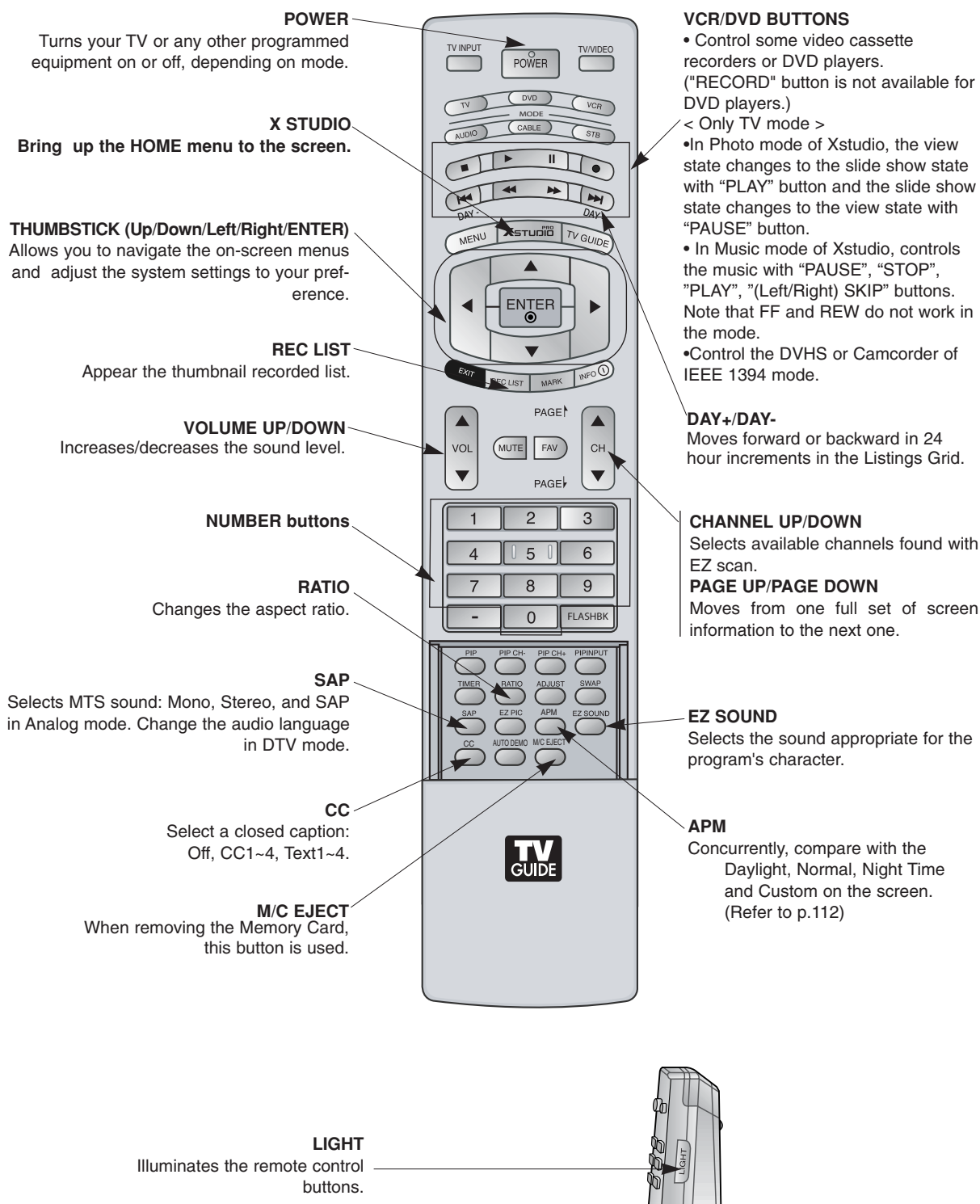
◆ This is a back panel of 50PX4DR series TVs.

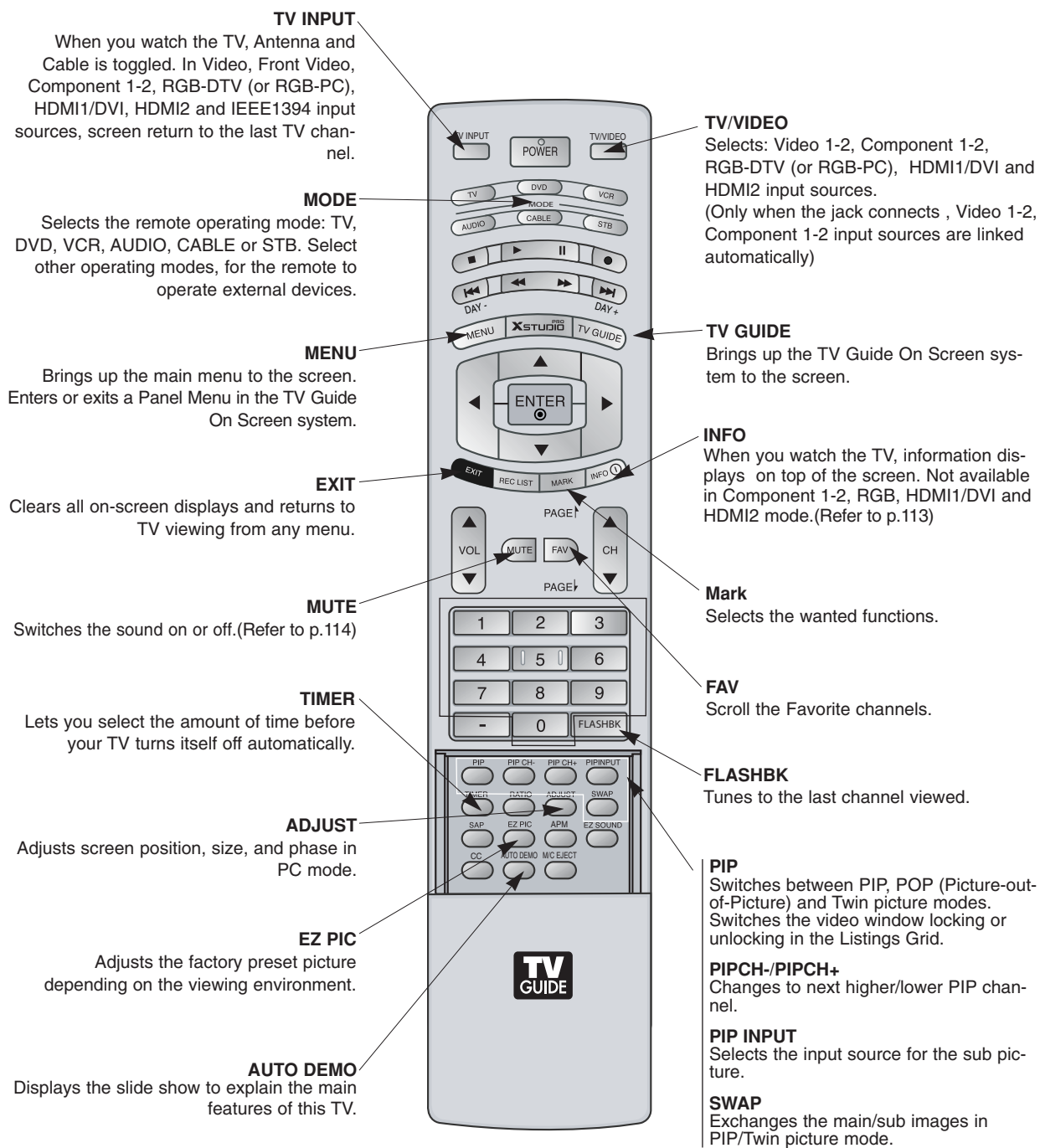
Back Connection Panel



Remote Control Key Functions

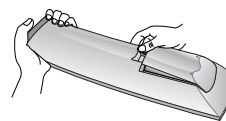
- When using the remote control, aim it at the remote control sensor on the TV.





Installing Batteries

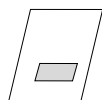
- Open the battery compartment cover on the back side and install the batteries matching correct polarity (+ with +, - with -).
- Install two 1.5V AA batteries. Don't mix old or used batteries with new ones. Replace cover.



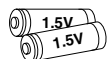
Installation

Accessories

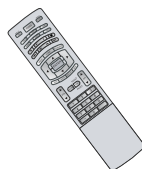
Ensure that the following accessories are included with your plasma display. If an accessory is missing, please contact the dealer where you purchased the product.



Owner's Manual



Batteries



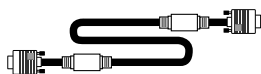
Remote Control



Power Cord



G-LINK Cable



D-sub 15 pin Cable



75Ω Round Cable



2-Wall brackets(50'')



2-eye-bolts(50'')



6-RING SPACER
(Only 60PY2DR series)



6-Wall mounting
bracket bolts
(Only 60PY2DR series)



2-Wall brackets(60'')
2-TV brackets(60'')



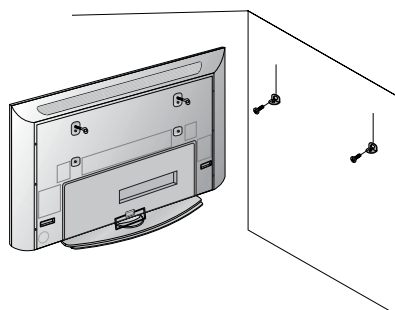
2-TV bracket bolts(60'')

Installation Instructions

Joining the TV assembly to the wall to protect the set tumbling

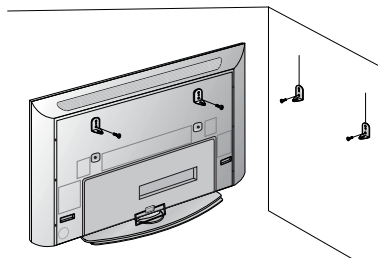
- Secure the TV assembly by joining it to a wall by using the TV/Wall brackets.
- Here shown may be somewhat different from your TV.

50PY2DR



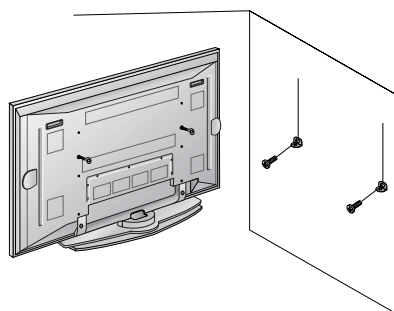
- After the set must be mounted on the desk top, Insert the 2 eye-bolts and tighten securely in the upper holes as shown.
Install wall the brackets on the wall with 2 bolts*, (not supplied with the product), as shown.
Match the height of the eye-bolts and the wall brackets.
Check to be sure the eye-bolts or the brackets are tightened securely.

60PY2DR

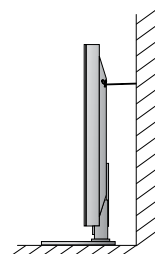


- After the set must be mounted on the desk top, install the 2 ring spacer on the TV. And then install the TV brackets on the ring spacer as shown. Insert the 2 bolts and tighten securely, in the upper holes on the brackets. Install the wall brackets on the wall with 2 bolts*, (not supplied with the product). Match the height of the TV brackets and the wall brackets. Check to be sure the brackets are tightened securely.

50PX4DR

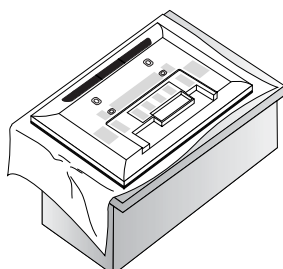


- After the set must be mounted on the desk top, Insert the 2 eye-bolts and tighten securely in the upper holes as shown. Install wall the brackets on the wall with 2 bolts*, (not supplied with the product), as shown. Match the height of the eye-bolts and the wall brackets. Check to be sure the eye-bolts or the brackets are tightened securely.

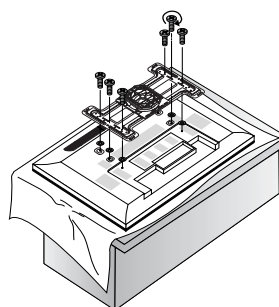


- Secure the TV assembly to the wall with strong strings or wire cables, (not supplied with the product), as shown.

Install the RING SPACER with the bolts on the set as shown.(Only **60PY2DR** series)



2. When you connect the wall mounting bracket to the set, connect to it by using the bolts, (supplied with the product), as shown.



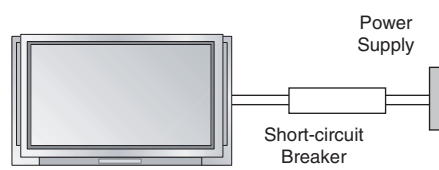
1. Put the RING SPACER in the holes of the bolts before connecting to the wall mounting bracket.

Installation Instructions

- The TV can be installed in various ways such as on a wall, or on a desktop etc.
 - The TV is designed to be mounted horizontally.
- This manual explains the features available on the 50PY2DR, 60PY2DR series TVs.
- Here shown may be somewhat different from your TV.

GROUNDING

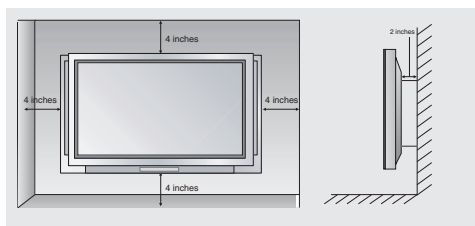
Ensure that you connect the grounding / earth wire to prevent possible electric shock. If grounding methods are not possible, have a qualified electrician install a separate circuit breaker. Do not try to ground the unit by connecting it to telephone wires, lightening rods, or gas pipes.



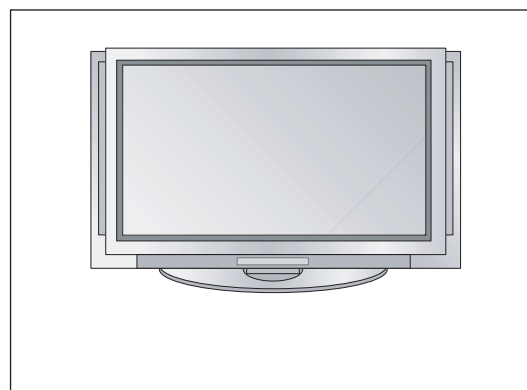
Wall Mount: Horizontal installation



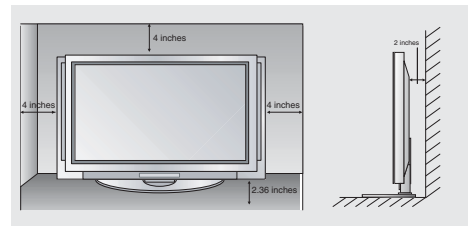
For proper ventilation, allow a clearance of 4" on each side and 2" from the wall. Detailed installation instructions are available from your dealer, see the optional Wall Mounting Bracket Installation.



Desktop Pedestal Installation

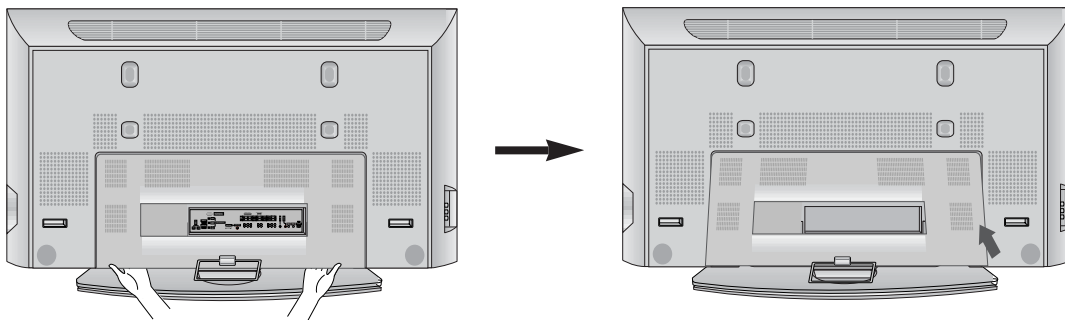


For proper ventilation, allow a clearance of 4" on each side and the top, 2.36" on the bottom, and 2" from the wall. Detailed installation instructions are included in the optional Desktop Stand Installation.

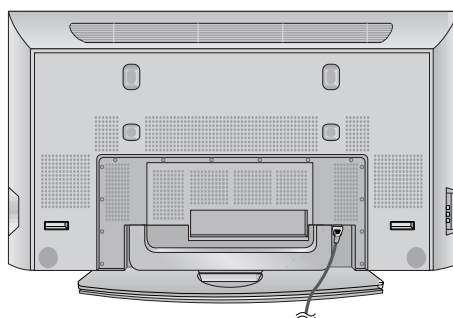


Remove or Attache the Plate Cover (Only 50/60PY2DR series)

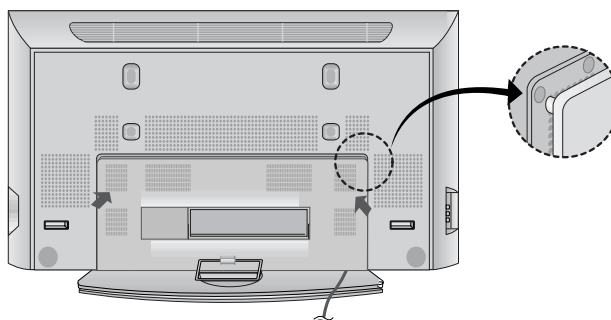
- This function explains the features available on the 50PY2DR, 60PY2DR series TVs.
- When moving or connecting the power cord, be used the these methods.
- And after removing the plate cover, you must install the wall brackets on the wall.



1. With hands, push the lower left/right of plate cover and then pull out to the front.



2. Connect the power cord on the TV's back.



3. In attaching the plate cover, firstly you set projection of the GUIDE to BUSHING RUBBER of the upper left/right. Push and put the plate cover with hands.

Installation Instructions

Swivel function

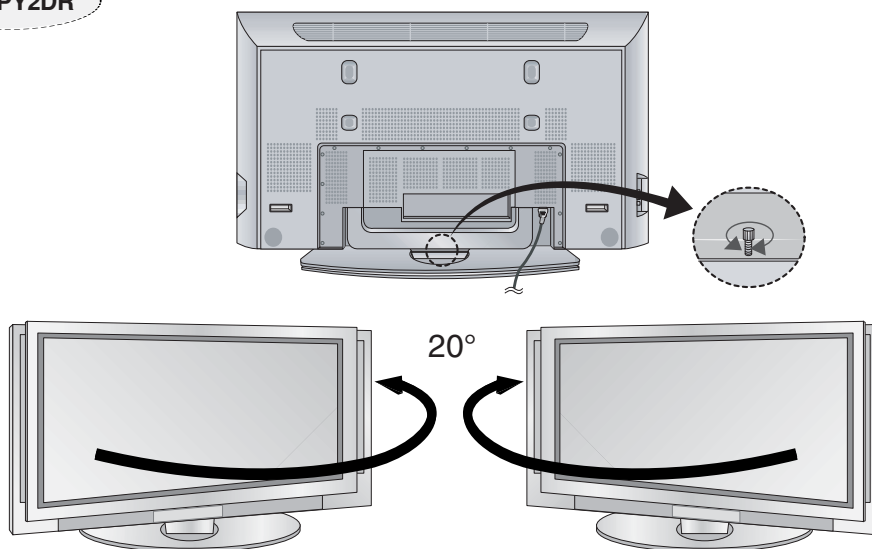
- This function explains the features available on the 50PY2DR, 60PY2DR series TVs.

- After installing the TV, you can adjust the the TV set manually to the left or right direction by 20 degrees to suit your viewing position.

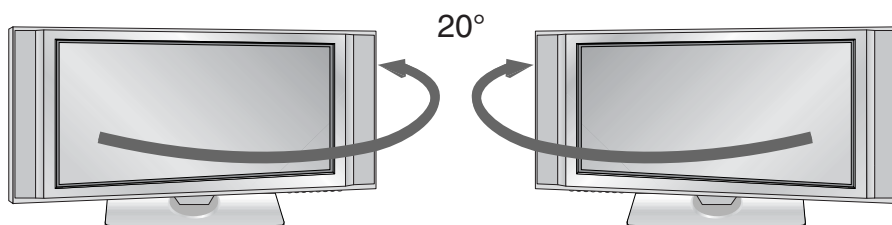
Note: Before adjusting the angle, you must loosen (to the left) the shaft bolt on the middle of stand's back.

And when stand be level with TV, you must close (to the right) the shaft bolt to set the hole.(As shown below)

50/60PY2DR



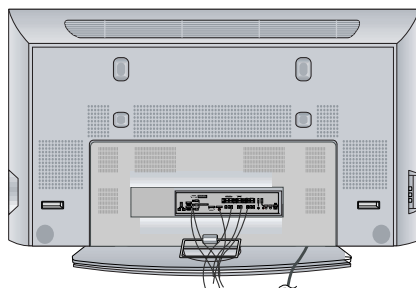
50PX4DR



Arrangement wires (Only 50/60PY2DR series)

- This function explains the features available on the 50PY2DR, 60PY2DR series TVs.

- Run the accessory device wires inside the JACK MANAGEMENT pole as shown.

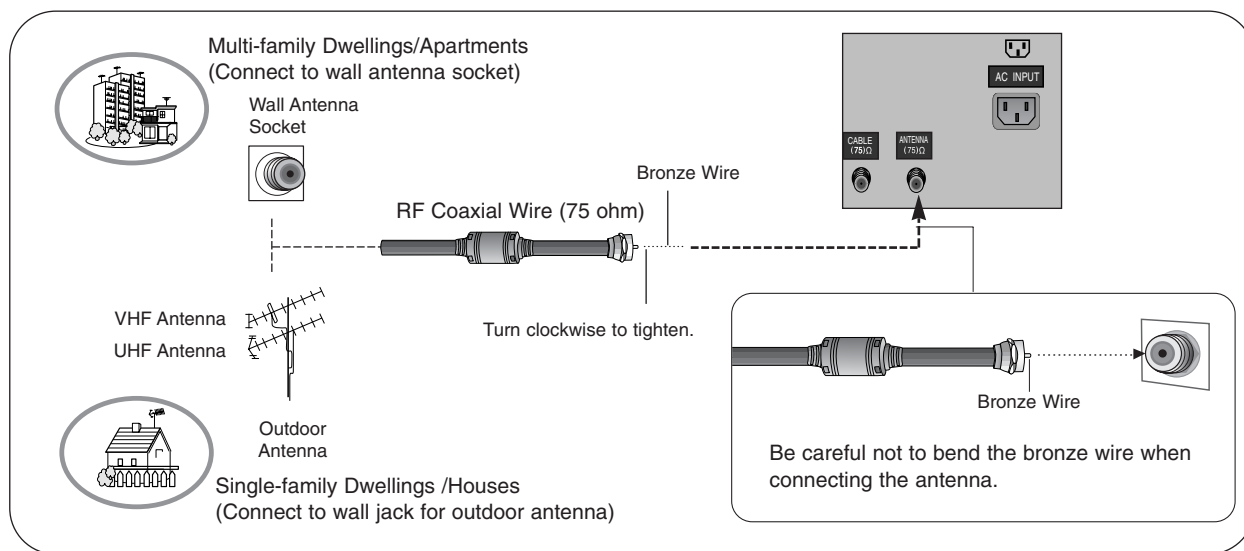


External Equipment Connections

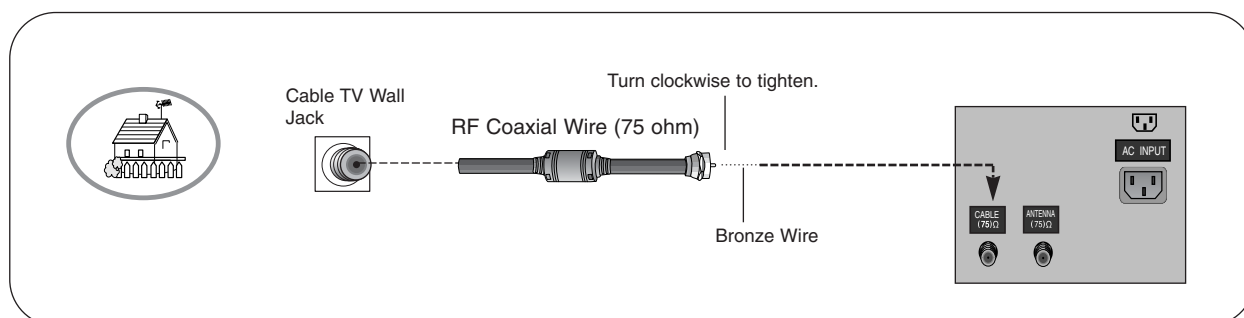
Antenna or Cable Connection

1. Analog and Digital TV signals provided on antenna

- Wall Antenna Socket or Outdoor Antenna without a Cable Box Connections
- For optimum picture quality, adjust antenna direction if needed.



2. Analog and Digital TV signals provided on cable

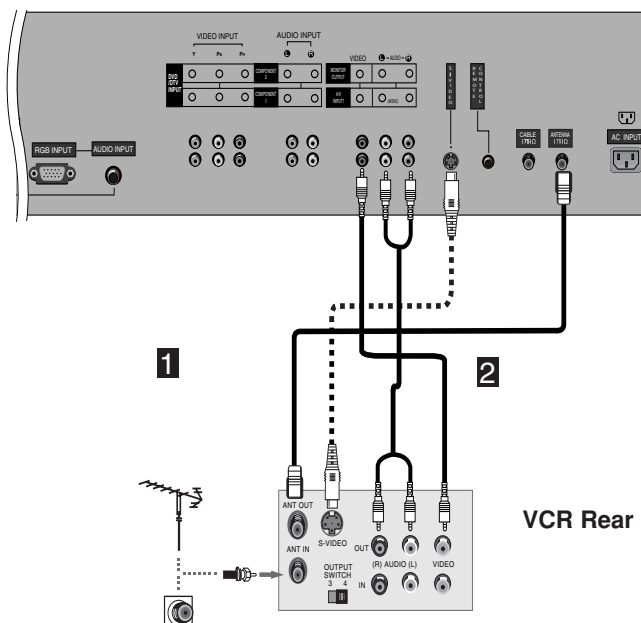
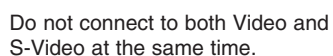




- To avoid picture noise (interference), leave an adequate distance between the VCR and TV
- Use the ISM Method (on the Option menu) feature to avoid having a fixed image remain on the screen for a long period of time. If the 4:3 picture format is used; the fixed images on the sides of the screen may remain visible on the screen.

Set VCR output switch to 3 or 4 and then tune TV to the same channel number.

1. Connect the audio and video cables from the VCR's output jacks to the TV input jacks, as shown in the figure.
When connecting the TV to VCR, match the jack colors (Video = yellow, Audio Left = white, and Audio Right = red).
If you connect an S-VIDEO output from VCR to the S-VIDEO input, the picture quality is improved; compared to connecting a regular VCR to the Video input.
2. Insert a video tape into the VCR and press **PLAY** on the VCR. (Refer to the VCR owner's manual.)
3. Select the input source with using the **TV/VIDEO** button on the remote control. (If connected to A/V INPUT, select **Video** input source)



External A/V Source Setup

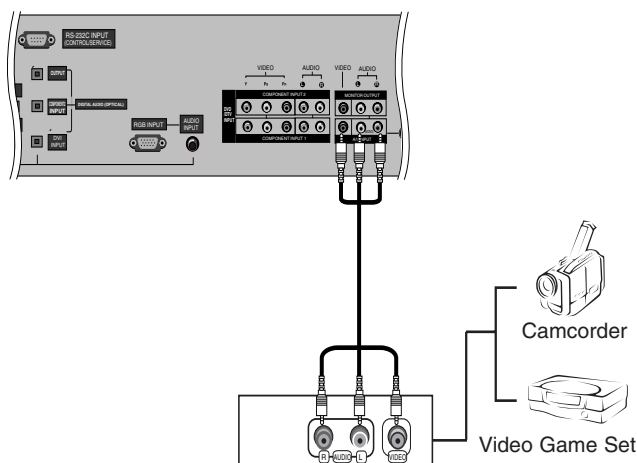
How to connect

Connect the audio and video cables from the external equipment's output jacks to the TV input jacks, as shown in the figure.

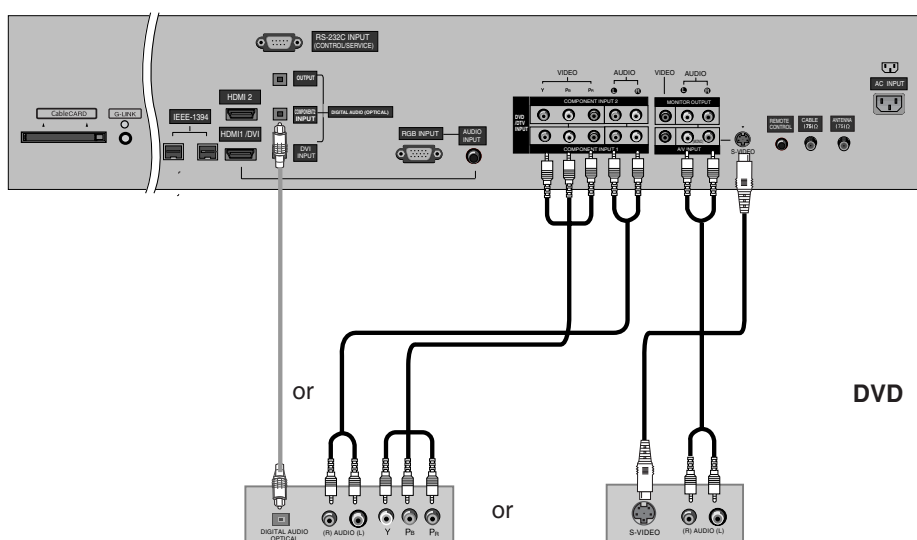
When connecting the TV to external equipment, match the jack colors (Video = yellow, Audio Left = white, and Audio Right = red).

How to use

1. Select the input source with using the **TV/VIDEO** button on the remote control. Note that this TV finds the connected input sources automatically for Video 1-2 and Component 1-2. It is presumed that RGB, HDMI1/DVI and HDMI2 sources are connected.
2. Operate the corresponding external equipment. For connection instructions for operating the TV Guide On Screen system, see page 29.



DVD Setup



How to connect

1. Connect the DVD video outputs (Y, Pb, Pr) to the COMPONENT (Y, Pb, Pr) INPUT jacks on the TV and connect the DVD audio outputs to the AUDIO INPUT jacks on the TV, as shown in the figure.
2. If your DVD only has an S-Video output jack, connect this to the S-VIDEO input on the TV and connect the DVD audio outputs to the AUDIO INPUT jacks on the TV, as shown in the figure.

Note: If your DVD player does not have component video output, use S-Video.

How to use

1. Turn on the DVD player, insert a DVD.
2. Use the **TV/VIDEO** button on the remote control to select **Component 1** or **Component 2**. (If connected to S-VIDEO, select the **Video** or **Front Video** external input source.)
3. 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	P _B	P _R
Video output ports on DVD player	Y	P _b	P _r
	Y	B-Y	R-Y
	Y	Cb	Cr
	Y	P _b	P _r

Notes:

- Digital Audio will not work for Component 1 input source.
- Digital Audio operation has priority if Digital Audio and AUDIO L/R are connected at the same time.

CableCARD™ Setup

How to use

Insert the CableCARD™ received from the cable service provider to the CableCARD™ slot of TV back panel.

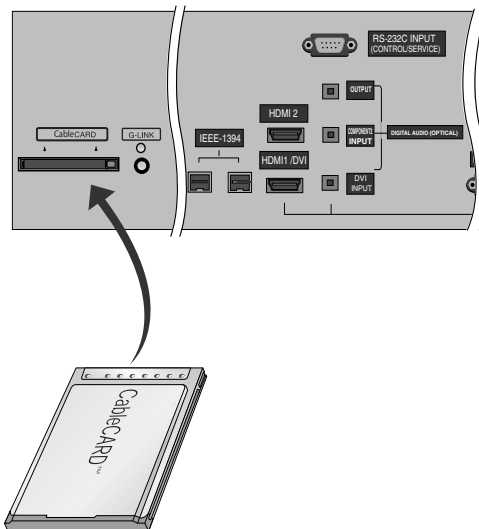
If the pairing information about this TV and the CableCARD is automatically displayed on the screen, contact with the cable service provider by phone.

Note :

- CableCARD™ have the types of Motorola, Scientific Atlanta, SCM etc.. These 3 types of CableCARD™ can be used for this PLASMA TV.

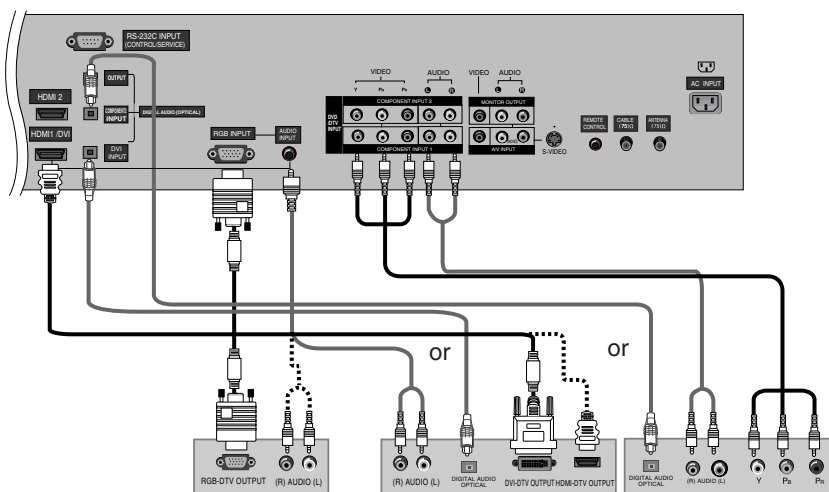


Caution: When removing the CableCARD™, do not drop it as this may cause damage to the CableCARD™.



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



Digital Set-top Box

How to connect

Use the TV's COMPONENT (Y, P_B, P_R) INPUT, RGB, HDMI1/DVI or HDMI2 jack for video connections, depending on your set-top box connector. Then, make the corresponding audio connections.

How to use

1. Turn on the digital set-top box. (Refer to the owner's manual for the digital set-top box.)
2. Use **TV/VIDEO** on the remote control to select **Component 1**, **Component 2**, **RGB-DTV**, **HDMI1/DVI** or **HDMI2** source.

Signal	Component 1/2	RGB-DTV, HDMI1/DVI, HDMI2
480i	Yes	No
480p	Yes	Yes
720p	Yes	Yes
1080i	Yes	Yes

PC Setup

- This TV provides Plug and Play capability, meaning that the PC adjusts automatically to the TV's settings.
- The TV perceives 640x480, 60Hz as DTV 480p based on the PC graphic card, change the screen scanning rate for the graphic card accordingly.

<When the PC supports DVI>

How to connect

1. Connect the PC to HDMI1/DVI port of this TV with an HDMI-to-DVI cable(not supplied with this product).
If you do not need to connect audio, HDMI2 port is also available for the DVI video connection.
2. If the PC(or the sound card of the PC) has a fiber optic digital audio output connector, connect the PC's audio output to DIGITAL AUDIO(OPTICAL) port for DVI INPUT.
3. If the PC(or the sound card of the PC) has an analog audio output connector, connect the PC's audio output to AUDIO INPUT port located on the right side of RGB INPUT port.

How To Use

1. To get the best picture quality, adjust the PC graphics card to 1024x768, 60Hz.
2. Select HDMI1/DVI input source in main input option of SETUP menu.(Refer to P.62)
TV/VIDEO button is also available for this purpose.
3. 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 resolution, change the refresh rate to another rate or adjust the brightness and contrast on the VIDEO 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.

<When the PC supports RGB>

How to connect

1. Connect the PC to RGB INPUT port of this TV with a RGB cable.
2. If the PC(or the sound card of the PC) has an analog audio output connector, connect the PC's audio output to AUDIO INPUT port located on the right side of RGB INPUT port.

How To Use

1. To get the best picture quality, adjust the PC graphics card to 1024x768, 60 Hz.
2. Select **RGB-PC** input source in main input option of SETUP menu.(Refer to P.41)
Once you select **RGB-PC** in main input option of SETUP menu, **TV/VIDEO** button is also available for this purpose.
3. 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 resolution, change the refresh rate to another rate or adjust the brightness and contrast on the VIDEO 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.

Monitor Display Specifications (RGB-PC)

Resolution	Horizontal Frequency(KHz)	Vertical Frequency(Hz)	Resolution	Horizontal Frequency(KHz)	Vertical Frequency(Hz)
720x400	31.469	70.08	800x600	35.156	56.25
	37.927	85.03		37.879	60.31
640x480	31.469	59.94		48.077	72.18
	37.861	72.80		46.875	75.00
	37.500	75.00		53.674	85.06
	43.269	85.00	1024x768	48.363	60.00
				56.476	70.06
				60.023	75.02

Monitor Display Specifications (RGB-DTV)

Resolution	Horizontal Frequency(KHz)	Vertical Frequency(Hz)
720x480	31.47	59.94
	31.50	60
1280x720	45.00	60.00
	44.96	59.94
1920x1080	33.75	60.00
	33.72	59.94

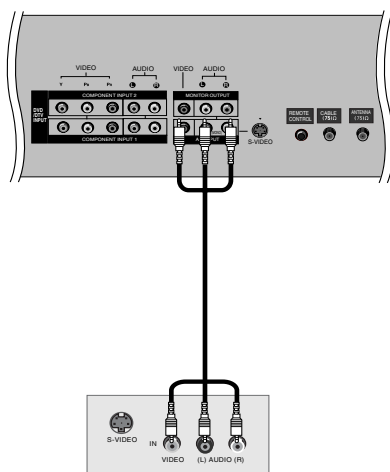
Monitor Display Specifications (HDMI-PC)

Resolution	Horizontal Frequency(KHz)	Vertical Frequency(Hz)	Resolution	Horizontal Frequency(KHz)	Vertical Frequency(Hz)
640x480	31.469	59.94	1024x768	48.363	60.00
	37.861	72.80		56.476	70.06
	37.500	75.00		60.023	75.02
	43.269	85.00			
800x600	35.156	56.25			
	37.879	60.31			
	48.077	72.18			
	46.875	75.00			
	53.674	85.06			

Monitor Display Specifications (HDMI-DTV)

Resolution	Horizontal Frequency(KHz)	Vertical Frequency(Hz)
720x480	31.500	60
	31.469	59.94
1280x720	45.00	60.00
	44.96	59.94
1920x1080	33.75	60.00
	33.72	59.94

Monitor Out Setup



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

Connect the second TV or monitor to the TV's MONITOR OUT-PUT. See the Operating Manual of the second TV or monitor for further details regarding that device's input settings.

Note

- Component, RGB-PC/RGB-DTV, HDMI1/DVI and HDMI2, DTV input sources cannot be used for Monitor out.

Digital Audio Output

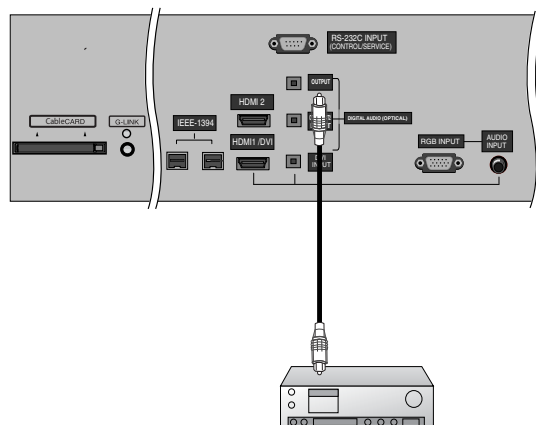
Send the TV's audio to external audio equipment via the Digital Audio Output (Optical) port.

How to connect

1. Connect one end of an optical cable to the TV Digital Audio (Optical) Output port.
2. Connect the other end of the optical cable to the digital audio (optical) input on the audio equipment.
3. Set the "**TV Speaker** option - **Off**" in the AUDIO menu. Refer to page 45.
See the external audio equipment instruction manual for operation.



Caution: Do not look into the optical output port. Looking at the laser beam may damage your vision.



HDMI



- HDMI™, the HDMI logo and High-Definition Multimedia Interface are trademarks or registered trademarks of HDMI Licensing LLC."
- This TV can receive the High-Definition Multimedia Interface(HDMI) or the Digital Visual Interface(DVI).
- This TV supports HDCP(High-bandwidth Digital Contents Protection) Protocol for 720x480p, 1280x720p, and 1920x1080i resolution.
- When you connect this TV with a source device(DVD player, Set Top Box or PC) supporting Auto HDMI/DVI function, the output resolution of the source device will be automatically set to 1280x720p.
- If the source device does not support Auto HDMI1/DVI, you need to set the output resolution appropriately.
To get the best picture quality, adjust the DVD Player or Set Top Box's output resolution to 1280x720p, and the PC graphics card's output resolution to 1024x768, 60Hz.
- If the source device has an HDMI output, no other audio connection is necessary because HDMI-to-HDMI connection includes both video and audio.
- If the source device has a DVI output and no HDMI output, a separated audio connection is necessary.

<When the source device (DVD player or Set Top Box) supports HDMI>

How To Connect

1. Connect the source device to HDMI1/DVI or HDMI2 port of this TV with an HDMI cable(not supplied with this product).
2. No separated audio connection is necessary.

How To Use

- If the source device supports Auto HDMI function, the output resolution of the source device will be automatically set to 1280x720p.
- If the source 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 source device to 1280x720p.
- Select HDMI1/DVI or HDMI2 input source in main input option of SETUP menu.(Refer to P.41)
VIDEO button is also available for this purpose.

<When the source device(DVD player or Set Top Box) supports DVI>

How To Connect

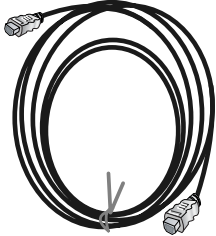
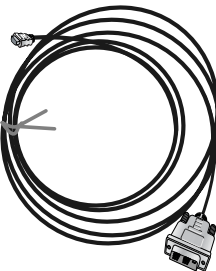
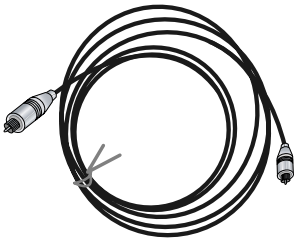
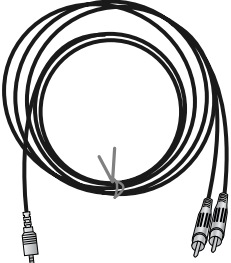
1. Connect the source device to HDMI1/DVI port of this TV with a HDMI-to-DVI cable(not supplied with this product).
Do not use HDMI2 port for DVI connection if you want to connect audio.
2. A separated audio connection is necessary.
3. If the source device has a fiber optic digital audio output, connect the audio output to DIGITAL AUDIO(OPTICAL) port for DVI INPUT.
4. If the source device has an analog audio output connector, connect the PC's audio output to AUDIO INPUT port located on the right side of RGB INPUT port.

How To Use

- If the source device supports Auto DVI function, the output resolution of the source device will be automatically set to 1280x720p.
- If the source device does not support Auto DVI, you need to set the output resolution appropriately.
To get the best picture quality, adjust the output resolution of the source device to 1280x720p.
- Select HDMI1/DVI input source in main input option of SETUP menu.(Refer to P.41)
VIDEO button is also available for this purpose.

Reference

Cable sample

	HDMI Cable (not supplied with the product)
	HDMI to DVI Cable (not supplied with the product)
	Fiber Optic Digital Audio Cable (not supplied with the product)
	Analog Audio Cable(RCA type) (not supplied with the product)
	Analog Audio Cable(Stereo to RCA type) (not supplied with the product)

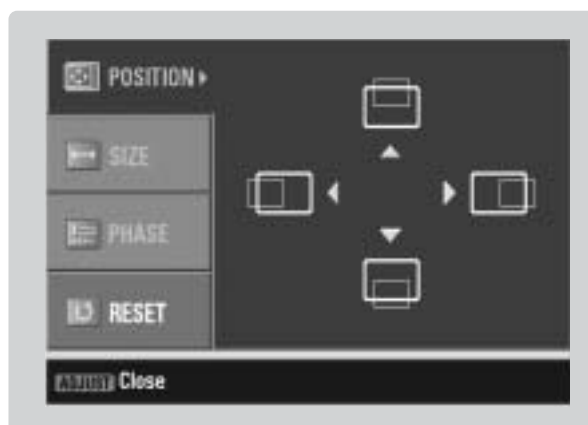
HDMI

How to use

1. Connect the HDMI1/DVI Source Devices(DVD Player or Set Top Box or PC) and the TV SET.
2. Turn on the display by pressing the POWER button on the TV SET and HDMI1/DVI Source Devices remote control.
3. Select HDMI1/DVI Input source in Main Input option of SETUP menu.(Refer to P.41)
4. Check the image on your TV SET. There may be noise associated with the resolution, vertical pattern, contrast or brightness in HDMI1/DVI Source Devices. If noise is present, change the HDMI1/DVI Source Devices to another resolution, change the refresh rate or adjust the brightness and contrast on the menu until the picture is clear. If the refresh rate of the PC graphics card can not be changed, change the PC graphics card or consult the manufacturer of the PC graphics card.

Notes:

- Depending on the graphics card, DOS mode may not work if you use a HDMI1 to DVI Cable.
- Avoid keeping a fixed image on the TV SET screen for a long period of time. The fixed image may become permanently imprinted on the screen. Use the Orbiter screen saver when possible.
- When Source Devices connected HDMI/DVI Input, output PC Resolution(VGA, SVGA, XGA), Position, Size may not fit to Screen. As shown in the lower picture, press the **ADJUST** button to adjust the screen Position of TV SET and contact an PC graphics card service center.
- When Source Devices connected HDMI1/DVI Input output TV SET Resolution(480p, 720p, 1080i), TV SET Display fit EIA/CEA-861-B Specification to Screen. If not, refer to the Manual of HDMI1/DVI Source Devices or contact your service center.
- In case HDMI1/DVI Source Devices is not connected Cable or poor cable connection, "NO SIGNAL" OSD display in HDMI1/DVI Input. And In case of, Video Resolution not supported TV SET output in HDMI1/DVI Source Devices, "INVALID FORMAT" OSD display. Refer to the Manual of HDMI1/DVI Source Devices or contact your service center.



In This Mode, the Supported TV SET Resolution Specification

- 1920 x 1080 I @ 59.94Hz / 60Hz, 16:9
- 1280 x 720 P @ 59.94Hz / 60Hz, 16:9(preferred format)
- 720 x 480 P @ 59.94Hz / 60Hz, 16:9
- 720 x 480 P @ 59.94Hz / 60Hz, 4:3

In This Mode, the Supported PC Resolution Specification

- 640 x 480 @ 59.94Hz
- 640 x 480 @ 72.80Hz
- 640 x 480 @ 75Hz
- 640 x 480 @ 85Hz
- 800 x 600 @ 56.25Hz
- 800 x 600 @ 60.31Hz
- 800 x 600 @ 72.18Hz
- 800 x 600 @ 75Hz
- 800 x 600 @ 85.06Hz
- 1024 x 768 @ 60Hz(preferred format)
- 1024 x 768 @ 70.06Hz
- 1024 x 768 @ 75.02Hz

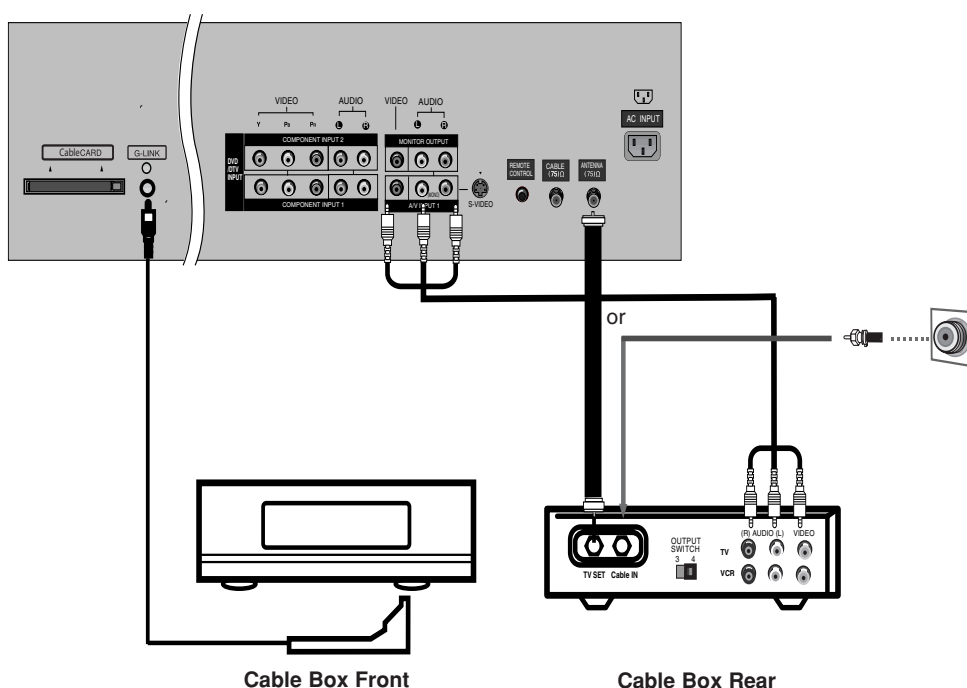
TV Guide On Screen Setup

- The TV Guide On Screen system uses Setup information to provide you with show listings and lineups in your area—which are updated several times a day.
- Once you set up the TV according to manufacturer's instructions, you are ready to set up the TV Guide On Screen system.
- To download program listings the TV Guide On Screen system needs to be able to change channels on your cable box when the TV is not in use. Please connect the supplied G-LINK cable to the G-LINK jack of the TV. After you connect the G-LINK cable you will be able to control your cable box using the TV's remote.

Note: The TV Guide On Screen system interactive program guide provides listings for cable-ready, cable box, and digital cable services as well as over-the-air broadcast. It does not provide listings for satellite services.

How to connect Cable Box

Cable Service with a Cable Box



Note:

- The G-LINK™ cable is necessary for the TV Guide On Screen system to work with your Cable Box and VCR. See Page 29 for G-LINK™ connection instructions.

TV Guide On Screen Setup

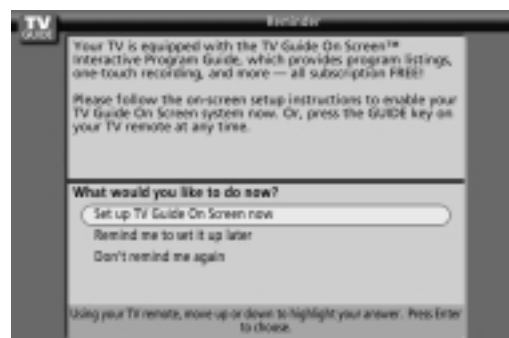
1. Welcome Screen

The TV Guide On Screen system's Welcome Screen appears:

- by pressing the TV Guide key
- when you power On your TV if you previously skipped "Set up TV Guide On Screen now" on the Reminder Screen.

The Welcome Screen highlights features of the TV Guide On Screen system.

Press **ENTER** to begin Setup.



2. Reminder Screen

The TV Guide On Screen system's Reminder Screen appears:

- after initial TV set up
- if you power Off the TV and then power it back On

To make a selection, use the ▲ / ▼ button to highlight to an option, and press **ENTER**.

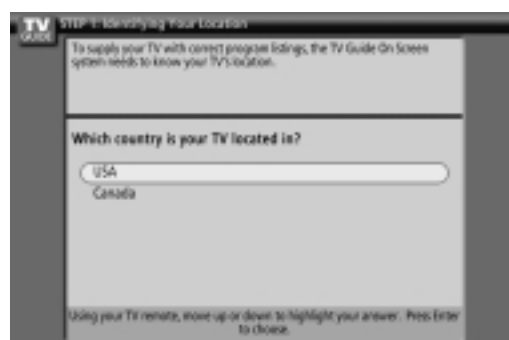
- "Set up TV Guide On Screen now," displays the Welcome Screen. Press **ENTER** to begin Setup.
- "Remind me to set up later" returns you to watching TV.
- "Don't remind me again" returns you to watching TV and stops the reminder screen from appearing upon power On.



How to use

1. Screen 1: Country

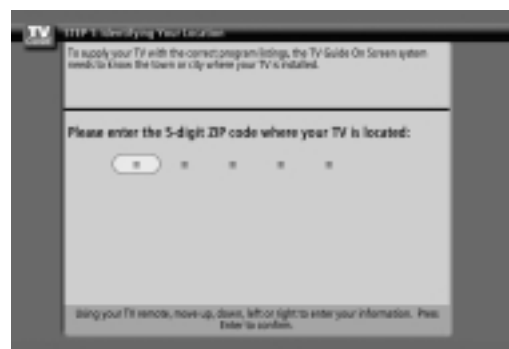
- This screen asks you the location of your TV.
- Use the ▲ / ▼ button to highlight a country.
- Press **ENTER** to display Screen 2.



2. Screen 2: Enter Zip or Postal Code

Option 1

- If you selected USA in Screen 1, you see the ZIP Code screen.
- You input numbers by either pressing the number keys on the remote or using the ▲ / ▼ button to display a number, and then the ◀ / ▶ button to move to another field.
- Press **ENTER** to display Screen 3.



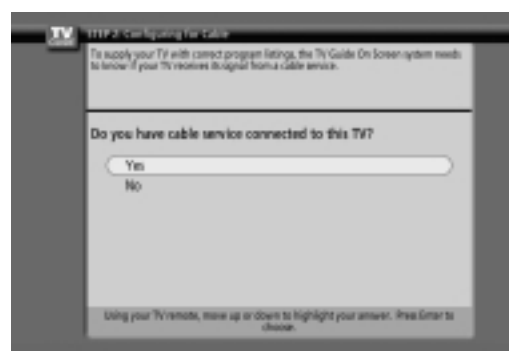
Option 2

- If you selected Canada in Screen 1, you see the Postal Code screen.
- You input characters by using the ▲ / ▼ button, and then the ◀ / ▶ button to move to another field.
- Press **ENTER** to display Screen 3.



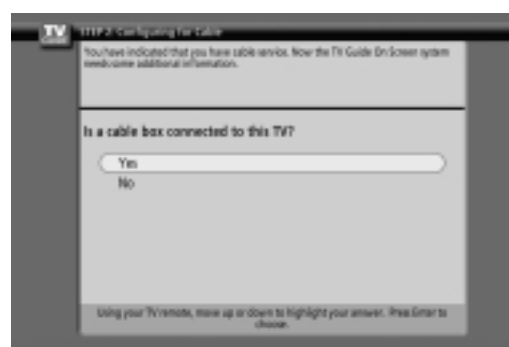
3. Screen 3: Do you have Cable Service connected?

- If you select Yes, you see Screen 4.
- If you select No, you see Screen 12.



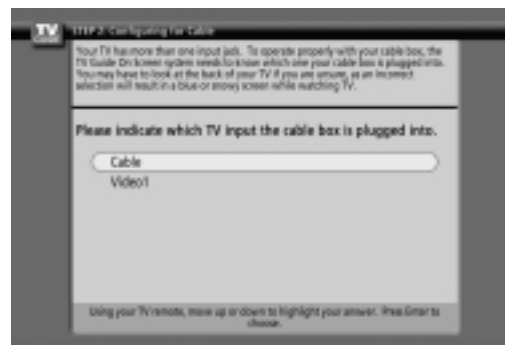
4. Screen 4: Do you have a Cable Box?

- If you select Yes, you see Screen 5.
- If you select No, you see Screen 12.



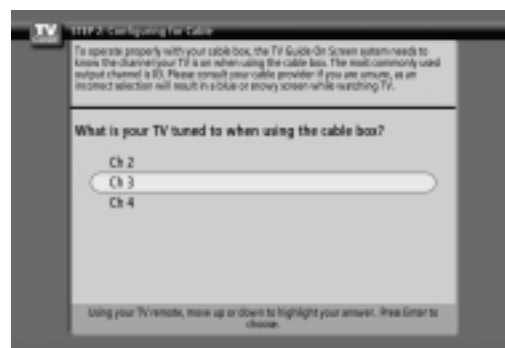
5. Screen 5: Which TV input is the cable box plugged into?

- If you select Cable, you see Screen 6.
- If you make any other choice, you see Screen 7 .



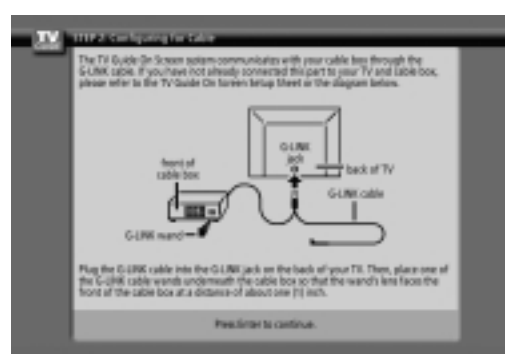
6. Screen 6: Cable Box Tuning Channel

- Select the channel used for the cable box.
- Press **ENTER** to display Screen 7.



7. Screen 7: Cable Box Configuration Diagram

- The diagram shows the correct way to install the G-LINK Cable from the back of the device to the cable box.
- Make sure the G-LINK™ Cable is properly installed.**
- Press **ENTER** to display Screen 8.



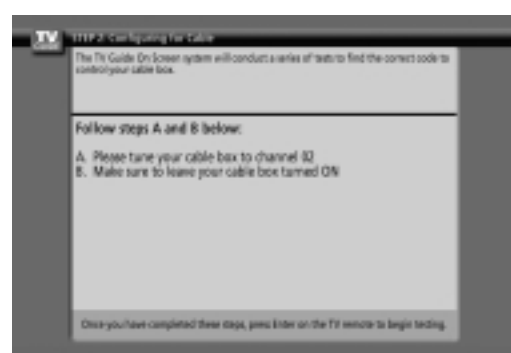
8. Screen 8: Cable Box Brand Name

- Use the ▲ / ▼ button to select a cable box brand.
- Press **ENTER** to display Screen 9.



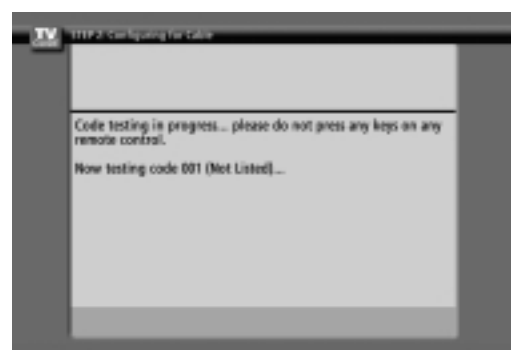
9. Screen 9: Cable Box Preparation

- Follow the on-screen instructions, and press **ENTER** to display Screen 10.



10. Screen 10: Cable Box Code Testing

- When testing is done, Screen 11 displays automatically.

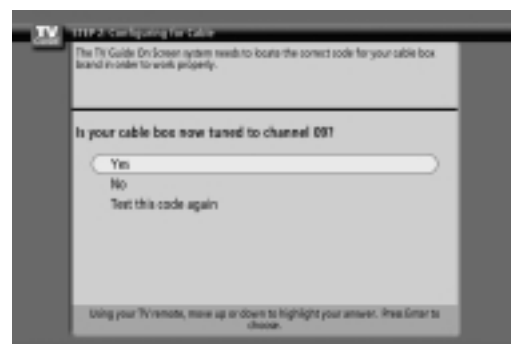


11. Screen 11: Cable Box Tuned to Channel 9?

- If you select Yes, you see Screen 12.
- If you select No, a different code is tested in Screen 10.

Note:

- Many Cable Boxes require testing more than one code.
- If you select Test this code again, the same code is tested again in Screen 10.



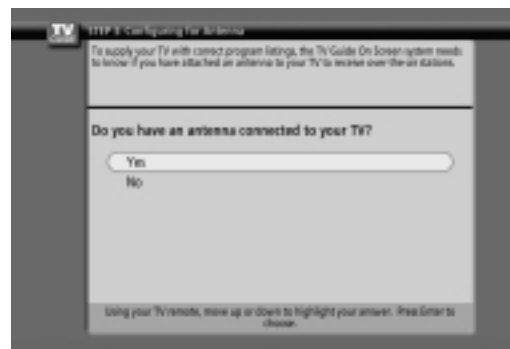
12. Screen 12: Do you have an antenna connected?

- If you select Yes, you see Screen 13.

Note:

•If you selected No in Screen 3 then you must select Yes in this screen to receive a channel lineup and listings.

- If you select No, you see Screen 13.



13. Screen 13: Are your basic settings correct?

- If you select Yes, you see Screen 14.
- If you select No, you see Screen 1.



14. Screen 14: Congratulations

- Press **ENTER** to display Screen 15.



15. Screen 15: Helpful Information

- This screen tells you valuable information on using your Guide.
- Press **ENTER** to watch TV.



Notes:

- The TV Guide On Screen system receives program listings data through your cable or over-the-air video signal. In order to receive regular program listings, please remember to do the following:
1. Turn OFF your TV when it is not in use. (Do not unplug the power cord.)
 2. If you have a Cable box connected, leave it ON.
 3. If you have more than one Cable system in your area, you may be prompted to select which Cable system's program data to download. If so prompted, please follow the on-screen instructions.

Operation

Turning the TV On

1. First, connect power cord correctly. At this moment, the TV switches to standby mode.

In standby mode to turn TV on, press the power, **TV/VIDEO**, **CH** (▲ / ▼) button on the TV or press the **POWER**, **TV/VIDEO**, **TV INPUT**, **CH** (+, -), **Number** (0 ~ 9) button on the TV .

2. Select the viewing source by using **TV/VIDEO**, **TV INPUT** button on the remote control.

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

3. When finished using the TV, press the **POWER** button on the remote control. The TV reverts to standby mode.

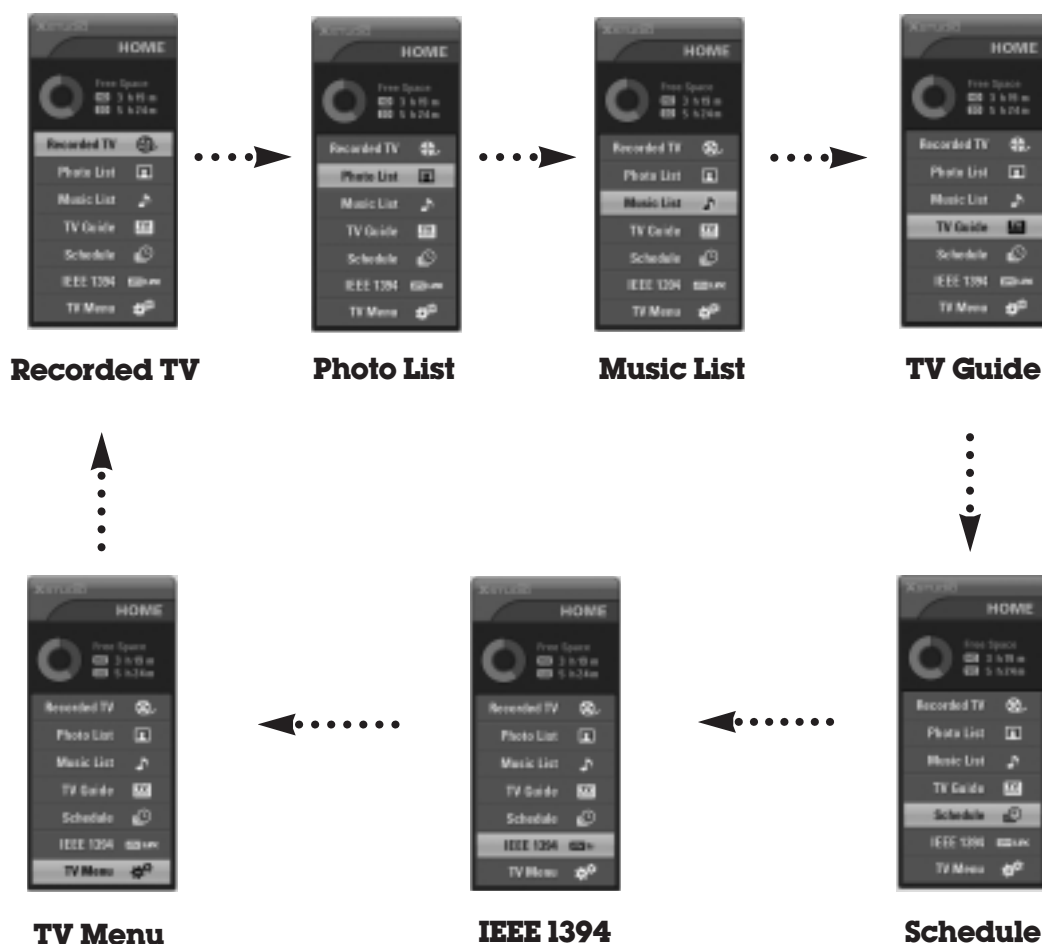
Notes:

- If you intend to be away on vacation, disconnect the power plug from the wall power outlet.
- After turning on the TV, it will take up to a week for the TV Guide On Screen system to receive full listings data.
- When the TV is turned on, blinks orange in standby mode, blinks green. And after orange stop blinking, you can directly turn on the TV. But in case of green, screen is displayed in 3~4 seconds later.
- If power isn't turn on in red, contact your service center.
- When the power turns on, the screen of TV Guide is automatically showed. In case the prior condition turns on putting again after the power code puts out in condition turning on power, the screen of TV Guide is showed a little bit late.

HOME Menu

- This menu is a contents guide.

In **HOME** Menu, you enter the recorded list of DVR, photo list and music list of DVR or Memory Card, TV Guide, Schedule of the TV Guide, IEEE1394 or TV Menu.

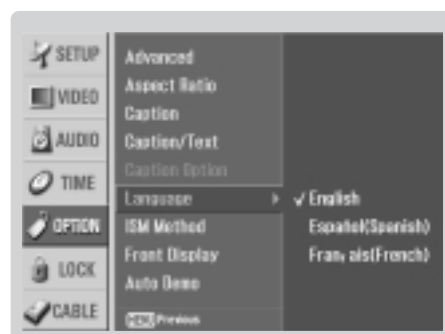


● TV Setup

On-screen Menu Language Selection

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

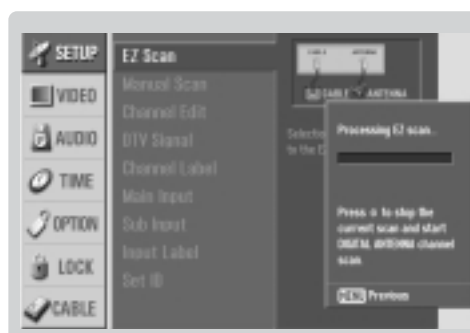
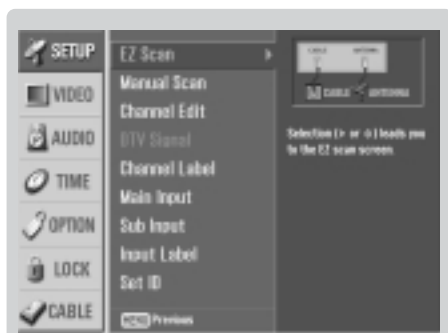
1. Press the **MENU** button and then use ▲ / ▼ button to select the **OPTION** menu.
2. Press the ► button and then use ▲ / ▼ button to select **Language**.
3. Press the ► button and then use ▲ / ▼ button to select your desired language.
From this point on, the on-screen menus will be shown in the selected language.
4. Press **EXIT** button to return to TV viewing or press **MENU** button to return to the previous menu.



Setup Menu Options

EZ Scan (Channel Search)

- Automatically finds all channels available through antenna or cable inputs, and stores them in memory on the channel list.
- Run EZ Scan again after any Antenna/Cable connection changes.



1. Press the **MENU** button and then use **▲ / ▼** button to select the **SETUP** menu.
2. Press the **►** button and then use **▲ / ▼** button to select **EZ Scan**.
3. Press the **ENTER** button to begin the channel search.
Allow EZ Scan to complete the channel search cycle for ANTENNA, and CABLE.

Manual Scan

1. Press the **MENU** button and then use **▲ / ▼** button to select the **SETUP** menu.
2. Press the **►** button and then use **▲ / ▼** button to select **Manual Scan**.
3. Press the **►** button and then use **▲ / ▼** button to select TV, DTV, CATV, and CADTV.
4. Press the **►** button and then use **▲ / ▼** button to select channel number you want to add or delete.
5. Press the **ENTER** button to add or delete for the channel number.
6. Press **EXIT** button to return to TV viewing or press **MENU** button to return to the previous menu.



Notes:

- This channel number is a physical channel number, which is different from the normal channel number shown in Channel Edit.
- When a cable box connects to the physical channel 2,3 or 4 in the TV Guide On Screen system Setup, cable channels(CATV or CADTV) will not be scanned by EZ Scan or Manual Scan.
- When inserting the CableCARD™, CATV, CADTV is not working in EZ Scan.
- TV: analog antenna(over-the-air) TV signal
DTV: digital antenna(over-the-air) TV signal
CATV: analog cable TV signal
CADTV: digital cable TV signal

Setup Menu Options

Channel Edit

- Create two different types of channel lists in memory: "Custom list" and "Favorite channel list" from the default channel list created from the EZ Scan channel search.
- A custom list can be created by toggling each channel on or off with **ENTER** button. The channels in the Custom List are displayed in black color, and the channels deleted from the Custom List are displayed in gray color. Once a channel is highlighted you can add or delete the channel by referring to the small window at the top-left corner of the screen. You can create your own Favorite List. Use the **FAV** button on the remote control when a channel is highlighted and then you can add or delete the channel to/from the Favorite List.



1. Press the **MENU** button and then use **▲ / ▼** button to select the **SETUP** menu.
2. Press the **▶** button and then use **▲ / ▼** button to select **Channel Edit**.
3. Press the **▶** button. You will now see a screen filled with channel numbers and a preview picture.
4. Use **▲ / ▼ / ◀ / ▶** button to select a channel and then use the **ENTER** button to add or delete it. Press **FAV** button to add the channel to the Favorite List.
5. Press **EXIT** button to return to TV viewing or press **MENU** button to return to the previous menu.



Note:

- When a cable box connects to the physical channel 2, 3, or 4 in TV Guide On Screen Setup, cable channels(CATV or CADTV) will not be editable by Channel Edit. Instead, use the cable box's Channel Edit if available.

DTV Signal Strength

- Shows how strong your DTV signal is and whether you need to adjust your antenna or digital cable input. The higher the signal strength, the less likely you are to experience picture degradation.
- DTV Signals: Only when the input signal is DTV or CADTV, this function is available.

1. Press the **MENU** button and then use **▲ / ▼** button to select the **SETUP** menu.
2. Press the **▶** button and then use **▲ / ▼** button to select **DTV Signal**.
3. View the on-screen signal strength monitor to see the quality of the signal being received.
5. Press **EXIT** button to return to TV viewing or press **MENU** button to return to the previous menu.

Channel Label Setup

- Choose preset labels for your channels.
- If a channel label is provided on the signal from the broadcasting station, the TV displays a short name for a channel - even if you didn't preset a label for the channel.



1. Press the **MENU** button and then use **▲** / **▼** button to select the **SETUP** menu.
 2. Press the **▶** button and then use **▲** / **▼** button to select **Channel Label**.
 3. Press the **▶** button. You will now see a screen filled with Labels and a preview screen.
 4. Use the **CH +/-** button to select a channel to Label.
 5. Use **▲** / **▼** / **◀** / **▶** button to select the appropriate label for the channel, then press **ENTER** button to set the Label to the selected channel.
- If you press **ENTER** button, you will see the channel banner. ...▶



Main Picture Source Selection

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

1. Press the **MENU** button and then use **▲** / **▼** button to select the **SETUP** menu.
2. Press the **▶** button and then use **▲** / **▼** button to select **Main Input**.
3. Press the **▶** button and then use **▲** / **▼** button to select the source: Antenna, Cable, Video, Front Video, Component1, Component2, RGB-DTV (or RGB-PC), HDMI1/DVI, HDMI2.
4. Press **EXIT** button to return to TV viewing or press **MENU** button to return to the previous menu.



Input Label

1. Press the **MENU** button and then use **▲** / **▼** button to select the **SETUP** menu.
2. Press the **▶** button and then use **▲** / **▼** button to select **Input Label**.
3. Press the **▶** button and then use **▲** / **▼** button to select the source: Video, Front Video, Component1, Component2, RGB, HDMI1/DVI or HDMI2.
4. Press **EXIT** button to return to TV viewing or press **MENU** button to return to the previous menu.



Video Menu Options

EZ Picture

- EZ Picture adjusts the TV for the best picture appearance. Select the preset value in the EZ Picture menu based on the program category.
- When adjusting Video menu options (contrast, brightness, color, sharpness, tint, and color temperature) manually, EZ Picture automatically changes to **Custom**.
- **Daylight**, **Normal**, **Night Time**, **Movie**, **Video Game**, and **Sports** settings are preset for optimum picture quality at the factory and are not adjustable.

1. Press the **EZ PIC** button repeatedly to select the picture appearance setup option as shown below:
Custom (your own settings), **Daylight**, **Normal**, **Night Time**, **Movie**, **Video Game**, and **Sports**.
• You can also use the **VIDEO** menu to adjust **EZ Picture**.

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

Manual Picture Control (**Custom** option)

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

1. Press the **MENU** button and then use **▲ / ▼** button to select the **VIDEO** menu.
2. Press the **►** button and then use **▲ / ▼** button to select the desired picture option (**Contrast**, **Brightness**, **Color**, **Sharpness**, or **Tint**).
3. Press the **►** button and then use **◀ / ▶** button to make appropriate adjustments.
4. Press **EXIT** button to return to TV viewing or press **MENU** button to return to the previous menu.



Color Temperature Control

- 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.

1. Press the **MENU** button and then use **▲ / ▼** button to select the **VIDEO** menu.
2. Press the **►** button and then use **▲ / ▼** button to select **Color Temperature**.
3. Press the **►** button and then use **▲ / ▼** button to select either **Cool**, **Medium** or **Warm**.
4. Press **EXIT** button to return to TV viewing or press **MENU** button to return to the previous menu.



Video Reset

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

1. Press the **MENU** button and then use **▲ / ▼** button to select the **VIDEO** menu.
2. Press the **►** button and then use **▲ / ▼** button to select **Video Reset**.
3. Press the **►** button to reset the Video menu options to original values.

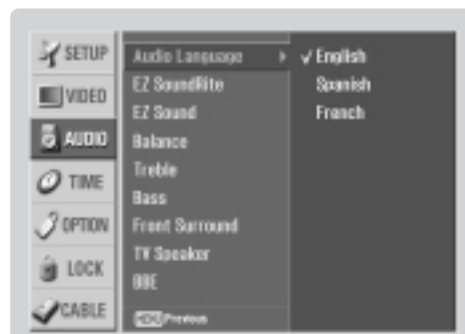


Audio Menu Options

Audio Language

- Other languages may be available if a digital signal is provided by the broadcasting station.

1. Press the **MENU** button and then use **▲** / **▼** button to select the **AUDIO** menu.
2. Press the **►** button and then use **▲** / **▼** button to select **Audio Language**.
3. Press the **►** button and then use **▲** / **▼** button to select: English, Spanish, or French.
4. Press **EXIT** button to return to TV viewing or press **MENU** button to return to the previous menu.



EZ SoundRite

- Scans for changes in sound level during commercials, then adjusts the sound to match the specified audio level. SoundRite makes sure that the volume level remains consistent whether you are watching a commercial or a regular TV program.

1. Press the **MENU** button and then use **▲** / **▼** button to select the **AUDIO** menu.
2. Press the **►** button and then use **▲** / **▼** button to select **EZ SoundRite**.
3. Press the **►** button and then use **▲** / **▼** button to select **On** or **Off**.
4. Press **EXIT** button to return to TV viewing or press **MENU** button to return to the previous menu.



EZ Sound

- EZ Sound lets you enjoy the best sound without any special adjustment because the TV sets the appropriate sound options based on the program content.
- When adjusting sound options (treble, bass, and front surround) manually, EZ Sound automatically switches **Custom**.
- **Normal**, **Stadium**, **News**, **Music**, and **Theater** are preset for good sound quality at the factory and are not adjustable.

1. Press the **EZ SOUND** button repeatedly to select the appropriate sound setup as shown below:
Custom (your own settings), **Normal**, **Stadium**, **News**, **Music**, and **Theater**.
 • You can also adjust **EZ Sound** in the **AUDIO** menu.
2. Press **EXIT** button to save and return to TV viewing.

Audio Menu Options

Manual Sound Control (**Custom** option)

- Adjust the sound to suit your taste and room situations.

1. Press the **MENU** button and then use **▲** / **▼** button to select the **AUDIO** menu.
2. Press the **►** button and then use **▲** / **▼** button to select the desired sound option (**Balance**, **Treble**, or **Bass**).
3. Press the **►** button and then use **◀** / **▶** button to make appropriate adjustments.
4. Press **EXIT** button to return to TV viewing or press **MENU** button to return to the previous menu.



Front Surround

- **SRS** is a trademark of SRS Labs, Inc.
- TruSurround XT technology is incorporated under license from SRS Labs, Inc.
- Manufactured under license from Dolby Laboratories. "Dolby" and the double-D symbol are trademarks of Dolby Laboratories.

1. Press the **MENU** button and then use **▲** / **▼** button to select the **AUDIO** menu.
2. Press the **►** button and then use **▲** / **▼** button to select **Front Surround**.
3. Press the **►** button and then use **▲** / **▼** button to select **Off**, **3D EchoSound System** or **SRS** (Sound Retrieval System) **TruSurround XT**.

• 3D EchoSound System

Creates a stunning simulated stereo effects from any mono sound and a realistic three-dimensional sound with a very wide and deep sound stage into stereo sound.

• SRS TruSurround XT

Takes advantage of any multi-channel format without needing to add extra speakers or equipment. Dialog clarity, bass enrichment, and the addition of stereo audio enhancement that produces an immersive sound experience from standard stereo material.

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



TV Speakers On/Off Setup

- Turn TV speakers off if using external audio equipment. Feature turns the TV Speakers option On or Off.

1. Press the **MENU** button and then use **▲ / ▼** button to select the **AUDIO** menu.
2. Press the **►** button and then use **▲ / ▼** button to select **TV Speaker**.
3. Press the **►** button and then use **▲ / ▼** button to select **On** or **Off**.
4. Press **EXIT** button to return to TV viewing or press **MENU** button to return to the previous menu.



Stereo/SAP Broadcasts Setup

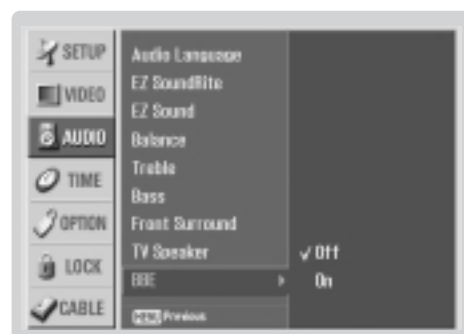
- This TV can receive MTS stereo programs and any SAP (Secondary Audio Program) that accompanies the stereo program; if the station transmits an additional sound signal as well as the original one.
 - When having selected Stereo or SAP button on the remote control, this TV can only receive the signal in case that the TV station transmits the proper signals.
 - 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 fringe areas during stereo/SAP broadcasting.
 - Stereo or SAP can be received in Analog channel.
1. 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.
 2. Press **EXIT** button to save and return to TV viewing.

BBE

- BBE High Definition Sound restores clarity and presence for better speech intelligibility and musical realism.

1. Press the **MENU** button and then use **▲ / ▼** button to select the **AUDIO** menu.
2. Press the **►** button and then use **▲ / ▼** button to select **BBE**.
3. Press the **►** button and then use **▲ / ▼** button to select **On** or **Off**.
4. Press **EXIT** button to return to TV viewing or press **ENTER** button to return to the previous menu.

BBE Manufactured under license from BBE Sound, Inc.



Time Menu Options

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.
- When you set up TV guide on screen system, **Auto Clock** menu is not selected.

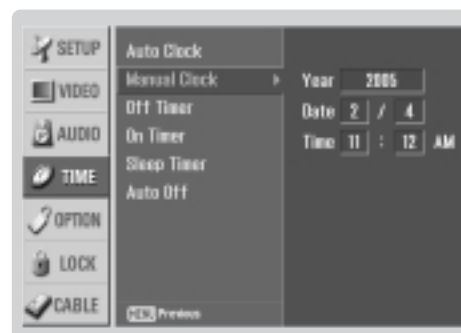
1. Press the **MENU** button and then use **▲ / ▼** button to select the **TIME** menu.
2. Press the **►** button and then use **▲ / ▼** button to select **Auto Clock**.
3. Press the **►** button and then use **▲ / ▼** button to select **On**.
4. Press the **►** button and then use **▲ / ▼** button to select your viewing area time zone: **Eastern, Central, Mountain, Pacific, Alaska, or Hawaii**.
5. Press **EXIT** button to return to TV viewing or press **MENU** button to return to the previous menu.



Manual Clock Setup

- If current time setting is wrong, reset the clock manually.
- When you set up TV guide on screen system, **Manual Clock** menu is not worked.

1. Press the **MENU** button and then use **▲ / ▼** button to select the **TIME** menu.
2. Press the **►** button and then use **▲ / ▼** button to select **Manual Clock**.
3. Press the **►** button and then use **◀ / ▶** button to select either the year, date, or time option. Once selected, use the **▲ / ▼** button to set the year, date, and time options.
4. Press **EXIT** button to return to TV viewing or press **MENU** button to return to the previous menu.



On/Off Timer Setup

- Timer function operates only if current time has been set.
- Off-Timer function overrides On-Timer function if they are set both to the same time.
- The TV must be in standby mode for the On-Timer to work.
- If you do not press any button within 2 hours after the TV turns on with the On Timer function, the TV will automatically revert to standby mode.

1. Press the **MENU** button and then use **▲ / ▼** button to select the **TIME** menu.
2. Press the **►** button and then use **▲ / ▼** button to select **Off Timer** or **On Timer**.
3. Press the **►** button and then use **▲ / ▼** button to select **On**.
 - To cancel **On/Off timer** function, select **Off**.
4. Press the **►** button and then use **▲ / ▼** button to set the hour.
5. Press the **►** button and then use **▲ / ▼** button to set the minutes.
6. **For only On timer function**
 Press the **►** button and then use **▲ / ▼** button to select the channel at turn-on.
 Press the **►** button and then use **▲ / ▼** button to set the sound level at turn-on.
7. Press **EXIT** button to return to TV viewing or press **MENU** button to return to the previous menu.



Sleep Timer

- The Sleep Timer turns the TV off at the preset time. Note that this setting is cleared when the TV is turned off.
 - You can also set up the **Sleep Timer** in the **TIME** menu.
1. 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.
 2. 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.
 3. To check the remaining minutes before the TV turns off, press the **TIMER** button once.
 4. To cancel the Sleep Timer, press the **TIMER** button repeatedly to select **Off**.

Auto Off

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

1. Press the **MENU** button and then use **▲ / ▼** button to select the **TIME** menu.
2. Press the **►** button and then use **▲ / ▼** button to select **Auto Off**.
3. Press the **►** button and then use **▲ / ▼** button to select **On** or **Off**.
4. Press **EXIT** button to return to TV viewing or press **MENU** button to return to the previous menu.



Option Menu Features

TimeShift Mode

- See Page 71~72 for TimeShift functions.

Cinema 3:2 Mode Setup

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



1. Press the **MENU** button and then use **▲ / ▼** button to select the **OPTION** menu.
2. Press the **▶** button and then use **▲ / ▼** button to select **Advanced**.
3. Press the **▶** button and then use **▲ / ▼** button to select **Cinema 3:2 Mode**.
4. Press the **▶** button and then use **▲ / ▼** button to select **On** or **Off**.
5. Press **EXIT** button to return to TV viewing or press **MENU** button to return to the previous menu.

Low Power

- Low power reduces the plasma display power consumption.



1. Press the **MENU** button and then use **▲ / ▼** button to select the **OPTION** menu.
2. Press the **▶** button and then use **▲ / ▼** button to select **Advanced**.
3. Press the **▶** button and then use **▲ / ▼** button to select **Low power**.
4. Press the **▶** button and then use **▲ / ▼** button to select **On** or **Off**.
 - When you select **On**, the screen darkens.
5. Press **EXIT** button to return to TV viewing or press **MENU** button to return to the previous menu.

LG Logo

- This function is only applied to 60PY2DR model.



1. Press the **MENU** button and then use ▲ / ▼ button to select the **OPTION** menu.
2. Press the ► button and then use ▲ / ▼ button to select **LG Logo**.
3. Press the ► button and then use ▲ / ▼ button to select **On** or **Off**.
 - When you select **On**, the Logo is lighting.
4. Press **EXIT** button to return to TV viewing or press **MENU** button to return to the previous menu.

Option Menu Features

Aspect Ratio Control

- Lets you choose the way an analog picture with a 4:3 aspect ratio is displayed on your TV with a 16:9 ratio picture format. 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 you are viewing a picture with a 16:9 aspect ratio, you can't use the Horizon aspect ratio option.
- Horizon aspect ratio is not available for Component 1-2 (720p/1080i)/RGB-DTV (720p/1080i)/HDMI1/DVI-DTV (720p/1080i)/DTV(720p/1080i) input source.
- RGB-PC/DVI-PC input source use 4:3 or 16:9 aspect ratio.
- **Note:** If a fixed image is displayed on the screen for a long time, that fixed image may become imprinted on the screen and remain visible.

1. Press the **RATIO** button repeatedly to select the desired picture format.
You can also adjust **Aspect Ratio** in the **OPTION** menu.

- **Set By Program**

Selects the proper picture proportion to match the source's image. (4:3 → 4:3, 16:9 → 16:9)

- **4:3**

Choose **4:3** 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 **16:9** when you want to adjust the picture horizontally, in a linear proportion to fill the entire screen.

- **Horizon**

Choose **Horizon** when you want to adjust the picture in a non-linear proportion, that is, more enlarged at both sides, to create a spectacular view.

- **Zoom 1**

Choose **Zoom 1** when you want to view the picture without any alteration. However, the top and bottom portions of the picture will be cropped.

- **Zoom 2**

Choose **Zoom 2** when you want the picture to be altered, both vertically extended and cropped. The picture taking a halfway trade off between alteration and screen coverage.

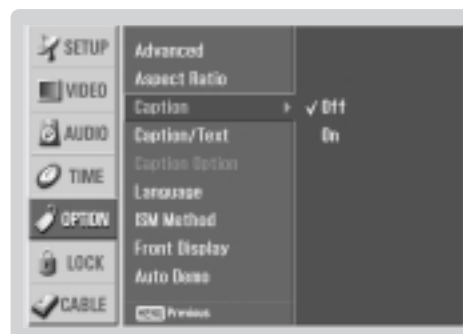
- **Cinema Zoom**

Choose **Cinema Zoom** when you want to enlarge the picture in correct proportion. Note: When enlarging or reducing the picture, the image may become distorted.

You can adjust the enlarge proportion of Cinema Zoom using ▲ / ▼ button. The adjustment range is 1~16.

Caption

1. Press the **MENU** button and then use **▲ / ▼** button to select the **OPTION** menu.
2. Press the **►** button and then use **▲ / ▼** button to select **Caption**.
3. Press the **►** button and then use **▲ / ▼** button to select **On** or **Off**.
4. Press **EXIT** button to return to TV viewing or press **MENU** button to return to the previous menu.



Caption/Text

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 usually the program's dialog.
- Text displays information, usually at the bottom position and is used for a data service, generally not program related.
- 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 remember the caption/text mode it was last set to, when you turn the power off.

1. Use the **CC** button repeatedly to select Caption **CC1, CC2, CC3, CC4, Text1, Text2, Text3, or Text4**.
 - **EZ Mute** shows the selected captions option (if available on program) when the TV sound is muted
2. Press **EXIT** button to save and return to TV viewing.

- You can also use the **OPTION** menu to select **Caption/Text**.

1. Press the **MENU** button and then use **▲ / ▼** button to select the **OPTION** menu.
2. Press the **►** button and then use **▲ / ▼** button to select **Caption/Text**.
3. Press the **►** button and then use **▲ / ▼** button to select caption: **CC1, CC2, CC3, CC4, Text1, Text2, Text3, or Text4**.

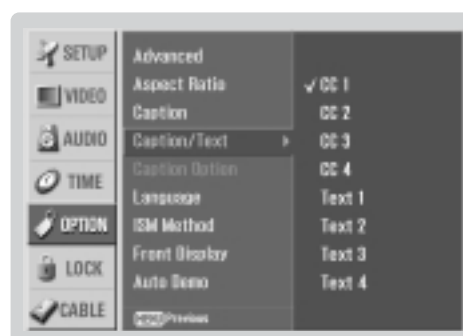
• CAPTION

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.

• 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.

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

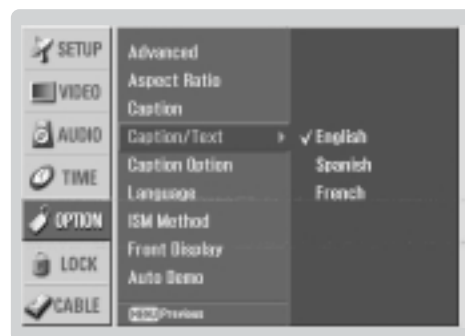


Option Menu Features

Digital Broadcasting System Captions

- Choose the language you want the DTV/CADTV Captions to appear in.
- Languages can be chosen for digital sources only if they are included on the program.

1. Press the **MENU** button and then use **▲ / ▼** button to select the **OPTION** menu.
2. Press the **►** button and then use **▲ / ▼** button to select **Caption/Text**.
3. Press the **►** button and then use **▲ / ▼** button to select available caption languages: **English**, **Spanish**, or **French**.
4. Press **EXIT** button to return to TV viewing or press **MENU** button to return to the previous menu.



Caption Option

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

1. Press the **MENU** button and then use **▲ / ▼** button to select the **OPTION** menu.
 2. Press the **►** button and then use **▲ / ▼** button to select **Caption Option**.
 3. Press the **►** button and then use **◀ / ▶** button to select **Custom**.
 4. Use **▲ / ▼** 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 size the words will appear in.
 - **Font:** Select a typeface for the words.
 - **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.
5. Press **EXIT** button to return to TV viewing or press **MENU** button to return to the previous menu.



ISM (Image Sticking Minimization) Method

- A frozen still picture from a PC/video game displayed on the screen for prolonged periods will result in an ghost image remaining; even when you change the image. Avoid allowing any fixed image to remain on the TV's screen for a long period of time.

1. Press the **MENU** button and then use ▲ / ▼ button to select the **OPTION** menu.
2. Press the ► button and then use ▲ / ▼ button to select **ISM Method**.
3. Press the ► button and then use ▲ / ▼ button to select either **Normal**, **White wash**, **Orbiter** or **Inversion**.

- **Normal**

If image sticking is never a problem, ISM is not necessary - set to Normal.

- **White wash**

White Wash removes permanent images from the screen.

Note: An excessive permanent image may be impossible to clear entirely with White Wash. To return to normal viewing, press the any button.

- **Orbiter**

Orbiter may help prevent ghost images. However, it is best not to allow any fixed image to remain on the screen. To avoid a permanent image on the screen, the image will move once per minute: Right → Right → Downside → Downside → Left → Left → Upside → Upside.

- **Inversion**

Inversion will automatically invert the plasma display panel color every 30 minutes.

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



Front Display

- Illuminates brightly when the set is turned on. The LED displays current TV status.
- This function is only applied to 50/60PY2DR model.

1. Press the **MENU** button and then use ▲ / ▼ button to select the **OPTION** menu.
2. Press the ► button and then use ▲ / ▼ button to select **Front Display**.
3. Press the ► button and then use ▲ / ▼ button to select **Off**, **Dark** and **Bright**.
4. Press **EXIT** button to return to TV viewing or press **MENU** button to return to the previous menu.



Option Menu Features

Auto Demo

- Displays the slide show to explain the main features of this TV.
1. Press the **MENU** button and then use ▲ / ▼ button to select the **OPTION** menu.
 2. Press the ► button and then use ▲ / ▼ button to select **Auto Demo**.
 3. Press **EXIT** button to stop Auto Demo.



Lock Menu Options

Parental Control can be used to block specific channels, ratings and other viewing sources.

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 the type of program and by the categories chosen to be blocked. 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 Movies previously shown in theaters:

Movie Ratings :

- Blocking Off (Permits all programs)
- G (General audience)
- PG (Parental guidance suggested)
- PG-13 (Parents strongly cautioned)
- R (Restricted)
- NC-17 (No one 17 and under admitted)
- X (Adult only)

If you set PG-13 : G and PG movies will be available , PG-13, R, NC-17 and X will be blocked.

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)

TV Rating Children:

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

TV Rating General:

- 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)

Input Block

- Video, Front Video (On, Off)
- Component 1, 2 (On, Off)
- RGB, HDMI1/DVI, HDMI2 (On, Off)

Lock Menu Options

Parental Lock Setup

- Set up blocking schemes to block specific channels, ratings, and external viewing sources.
- A password is required to gain access to this menu if the Lock System is turned on.

1. Press the **MENU** button and then use **▲** / **▼** button to select the **LOCK** menu. Then, press the **►** button

- If **Lock** is already set, enter the password as requested.
- The TV is set up with the initial password "0-0-0-0".

2. Use the **▲** / **▼** button to choose from the following Lock Menu options. Once the option is selected, change the settings to your preference.

- **Lock System:** Activates or disables the blocking scheme you set up previously.
- **Set Password:** Change the password by inputting a new password twice.
- **Block Channel:** Blocks any channels that you do not want to watch or that you do not want your children to watch.
- **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.
- **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.
- **TV Rating-General:** Based on the ratings, blocks certain TV programs that you and your family do not want to view.
- **Input Block:** Enables you to select a source to block from the external source devices you have hooked up.

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

Note:

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

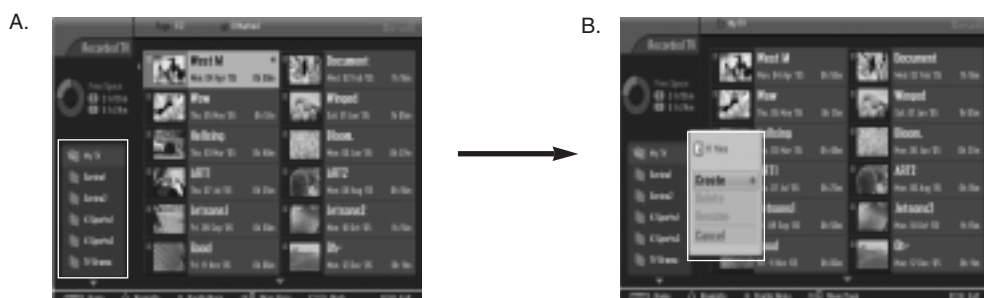




Recorded TV

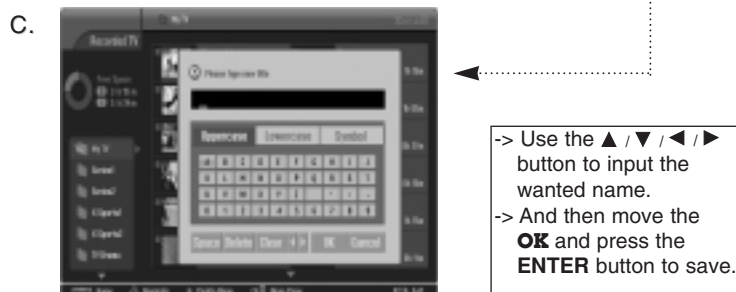
- When you press the **XSTUDIO** button, **HOME** menu is displayed. From here, you can view the recorded program list.
- Or pressing the **REC LIST** button, you directly enter the recording list.

1. Select the **Recorded TV** in **HOME** menu or press the **REC LIST** button to view the recording list as shown below.

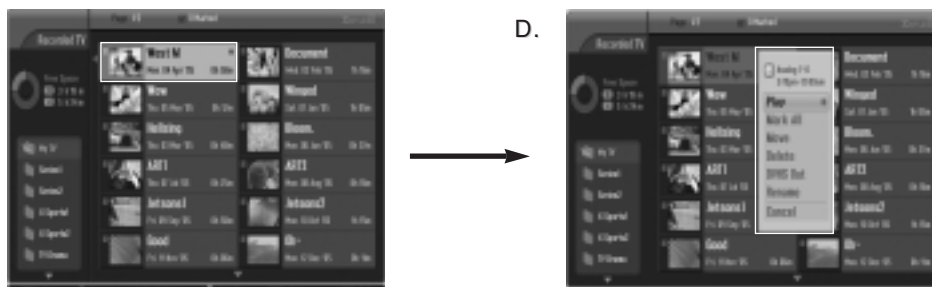


3. Select the desired folder in the folder list and then press the **ENTER** button to view the detailed menu.

- **Create:** Create new folder.
- **Delete:** Delete folder (except 'My TV').
- **Rename:** Edit folder name.
- **Cancel:** Close the detailed menu.



Recorded TV

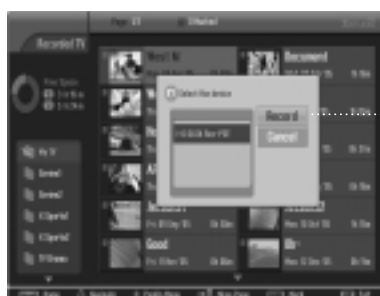


D.

- The current thumbnail recorded list is shown above.

1. Use the **CH +/-** button to navigate thumbnail photo in pages.
2. Use **MARK** button to add or delete the marked photo to the mark list and only marked photos are toggling.
3. Use **▲ / ▼ / ◀ / ▶** button to navigate the appropriate thumbnail photo, then press the **ENTER** button to open the pop-up menu.

- **Play:** Begin playback of selected recording.
- **Mark All:** mark all photos on the screen.
- **Unmark All:** Change marked photos to unmarked photos.
- **Move:** Move program saved in HDD to the other folder.



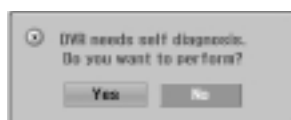
- Through the 1394, can be recorded the desired program.
When a device is not connected to the 1394 port, "**No DVHS Connected**" is displayed on the screen.

- **Delete:** Delete the selected recording. This menu is only available in HDD mode.
- **DVHS Out:** When DVHS is connected, selected program is saved to the DVHS.
- **Rename:** Edit recorded name.
- **Cancel:** Close the Pop-up menu.

4. Repeatedly, press **REC LIST** button or **EXIT** button to return to TV viewing or press  button to return to the previous menu.



- If the HDD has a problem on performing a function (Recording, Photo, Music) related with DVR, question both **Yes** or **No** which being displayed this message to initialize HDD as shown below.



- If you selects **Yes**, it can be deleted the Recorded List, Photo/Music list etc. because of initializing HDD. Even If you selects **No**, it can't be worked DVR operation of playback, record etc.

- If temperature is below zero(0°), this message is displayed to initialize HDD as shown below.



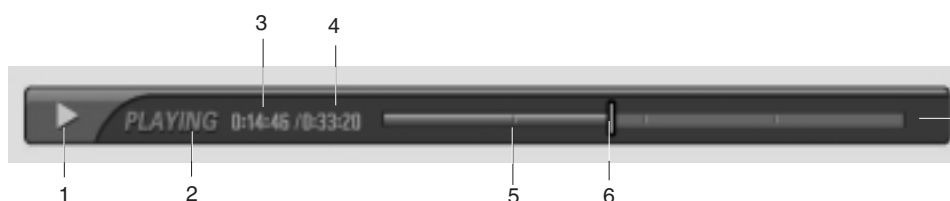
On playing the recorded program, play

- You can play the selected program in the recorded program list.

1. Play a recorded program.

2. On playing, You can see a diversified playback screen as shown below.

- At first, it is showed as marking . Then press the **ENTER** button to display the progress bar.
- To disappear a recorded program icon, press the **EXIT** button.



1. Indicates movement of recorded program.
2. Indicates status of recorded program.
3. Indicates elapsed playback time.
4. Indicates total playback time.
5. Indicates 15 minute intervals from recorded program start time.
(Total - one hour).
6. Indicates current playback position.

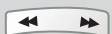


* The 'Progress Bar'?

This function indicates a possible DVR reshooting section, a current on-screen and real on-broadcasting position, a section of section-recording.

◆ Using the remote control

- You can shift playback to any point within playing the recorded program

	- When playing, press the REW (◀◀) or FF (▶▶) button. • Like  ->  ->  ->  ->  in a row. • 2 times 5 times 20 times 50 times 300 times • If the button is pressed continuously, it changes like above. If the button is taken away, it changes a normal playback.
	(In the condition of not setting a section to repeat) - If you wish to return to a initial portion of playback program, press the ⏮ button.
	(In the condition of not setting a section to repeat) - If you wish to return to a last portion of playback program, press the ⏭ button.
	- Press the PLAY (▶) button to return to a normal playback.
	- During playback, press the Pause (⏮) button. • Still screen is displayed. • Repetedly press the Pause (⏮) button to advance frame by frame. • When pressing the Pause (⏮) button, longly,  will be showed. • Unless a remote control input after a pause, return to the condition of playback in 15 minutes.
	• If you press the ▲ / ▼ button on playing, the screen will be jumped back and forth in the current screen. • Pressing the ▲ button, the screen will be jumped 20 seconds in the front. • Pressing the ▼ button, the screen will be jumped 8 seconds in the back.
	• After moving to the back using the ▶ button on playing, press the the ◀ button to be directly returned to the prior screen.
	- If you press the STOP (■) button, you can watch the TV. • After marking the "■", this program is ended in 15 minutes.

Recorded TV

On playing the recorded program, edit a section

- You can save the desired screen in the recorded program list after editing the recorded program..

1. At the point of desired start , press the  button.
 - The progress bar which be edited will be showed the red color.
 - It can be possible as search (◀ or ▶), pause while editing the section.
 2. At the point of desired finish , press the  button.
 - Stop editing the section.
3. Repeatedly play the above 1,2 phase, it can be possible to edit some programs.



4. If you press the  button to stop the recorded program playback, this message is displayed as shown below.



- **Save:** Save contents of editing the section and finish the playback of recorded program.
- **Undo:** Don't save contents of editing the section and finish the playback of recorded program.
- **Cancel:** The screen is disappeared and the playback is continued.

Notes:

- It can be possible to play on the recording / reserved recording
- It can be possible to occur a noise by a hard-disk on playing the recorded program. The noise is irrelevant the proficiency and creditability of product, the noise occurred more than adequate is the same as good product.
- In case saving the content of editing the section, delete the portion not to select.
- When power off on editing, It can be possible not to save the content of editing. You do press the **STOP (■)** button after checking the recording list.
- Editing the section can be possible to the maxium of 10.
- You can not save editing of less than 10 seconds.

On playing the recorded program, repeat a section

- You can set the section and repeatedly view on playing the recorded program.

1. At the point of desired start, press the  button.



- At start points, it is showed as marking .
2. At the point of desired finish, press the  button.
 - At finiah points, it is showed as marking .
 - Repeatedly play the marked section.
 - You can not make sections of less than 5 seconds.
 - The progress bar which be repeated will be showed the blue color.
 3. Press the  button to move the position of the start point.
 - Return to the start point of marked section and then start the playback.
 4. If you press the  or  button to stop playing the repeat section.

Notes:

- It can be possible a function as search (Rew / FF), Pause, edit a section while repeating a section.
- When setting the section of start and finish, it can be possible both of Rew and FF.

Notes on Memory Card

What is Memory Card

This is a device equipment to communicate the data between AV external equipment. It's used to a digital camera, camcorder, MP3 player, notebook or PDA.

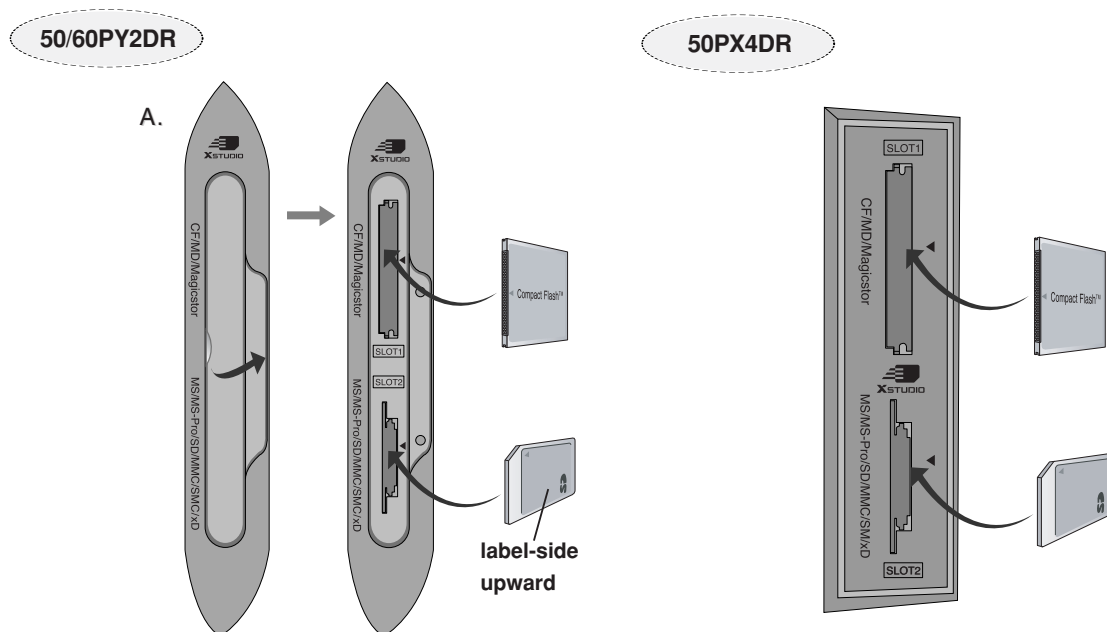
Precaution for Using the Memory Card

- Insert the memory card correctly.
- Don't insert the metal substances into the slots of the memory card.
- Do not bend, drop or apply strong shock to memory card.
- After pulling the memory card out from the TV, please keep the memory stick in a appropriate case to prevent static shock.
- The stored data may be changed or lost as a result of misuse, static electricity.
- Do not turn the power off while using the memory card (loading or erasing).
- Don't eject the memory card while using the it. Otherwise, it may cause a data loss or card damage.
- Only Insert one card to each slot.
- To prevent a change or loss for stored data, don't misuse the TV or don't let static electricity or electrical noise for TV.
- This Company takes no responsibility for problems such as the damage or malfunction that occurs while using the TV set, inappropriate TV settings, or any other reasons, except for defects or malfunctions intrinsic to the product.
- Ensure to use a memory card that lists the manufacturers name and serial number.
- The manufacturer shall not be responsible for damaged data. Be careful to avoid data damage, and back up your files.
- Make sure to comply with the following steps when ejecting a memory card.
- Each Memory Card is complied with standard.

Entry Modes- 1.Using the Memory Card / 2. Enter the HOME Menu

1.Using the Memory Card

How to insert and eject the Memory Card



◆ Inserting a Card

1. Insert the Memory Card to Memory card slots of TV side panel.
2. Two slots support different types of the Memory Cards.
3. If Memory Card is not inserted, each slot is disable.

◆ Ejecting a card

1. Press the **M/C EJECT** button on the remote control.
2. Select the **Slot 1** or **Slot 2** based on the inserted card location.
If selecting **Cancel**, OSD is disappeared.
3. Eject the card with the hand.

Note: If you insert or eject a card in one slot while the card in another slot (slot 1 or slot 2) is in use, the product can run abnormally.

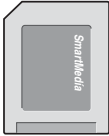


Caution: Before you remove the memory card from the slot, do not forget to press the **M/C EJECT** button on the remote control and make it safe to eject the memory card, or the memory card may be damaged.

Notes on Memory Card

Memory Card type and Memory Card capacity

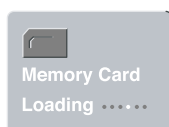
- 9 types of Memory Card can be used for this Plasma TV.
- Playback speed can vary dependent on the card type.
- Unsupported or damaged photo or music files can cause errors. Do not try to change the file extension of unsupported file types to the file extension of supported file types.

Slot 1	Slot 2
• CF (CompactFlash) : 4GB • MD (Microdrive) : 4GB • CF+ (MagicStor) :2.2GB *MagicStor Plus card is not is complied with the TV.	• SD (Secure Digital) : 1GB • MMC (MultiMedia Card) : 1GB • MS (Memory Stick) :128MB • MS Pro (Memory Stick Pro) : 1GB • SMC (Smart Media Card) : 128MB • xD (xD-Picture Card) : 512MB
  	     

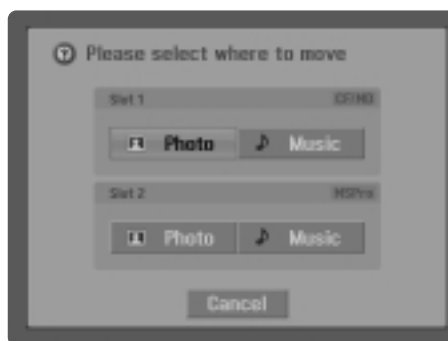
Select the Photo or Music

- When you plug the Memory Card, this screen is displayed, automatically.

B.



C.



1. Press the ◀ / ▶ button to select **Photo/Music**, and use ▲ / ▼ button to select **Slot1** or **Slot2**.
2. Press **ENTER** button to move to **Photo List/Music List** of the each slot. (Directly move to p.59,(C))

Note: In 30 seconds later, "Loading" message is disappeared.

- 2.Enter the HOME Menu

Photo List

- When you press the **XSTUDIO** button, **HOME** menu is displayed.
It's available to playback and copy the Photo file of Memory Card.or HDD.
The total storage space of photo file is 10GB.

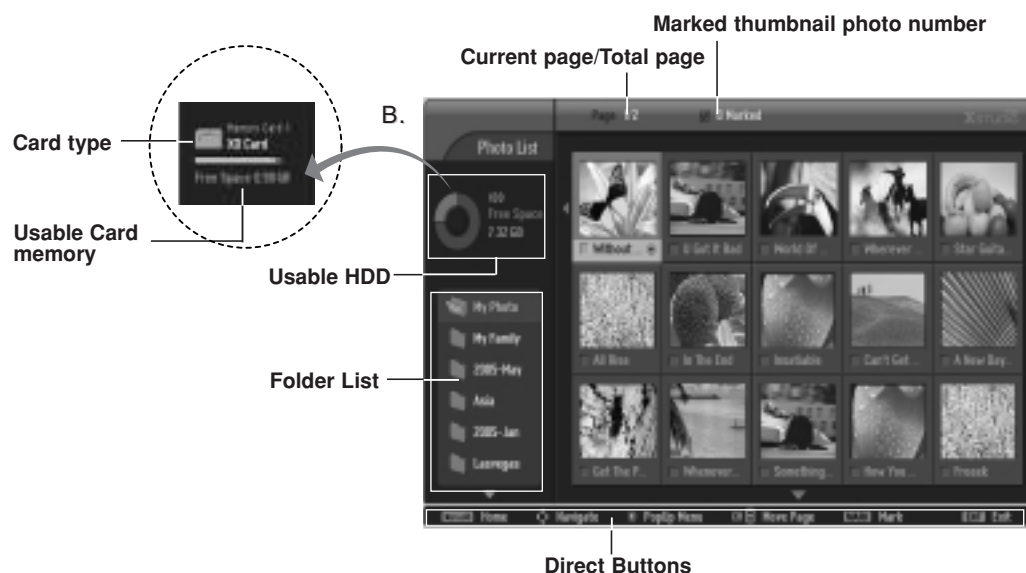
1. In **HOME** menu, use ▲ / ▼ button and then use the **ENTER** or ▶ button to select the **Photo List**.
2. Use ▲ / ▼ button to select the **HDD/ Memory Card 1/ Memory Card 2** and then you will see a screen filled with thumbnail photos (pic.C,D).

A.

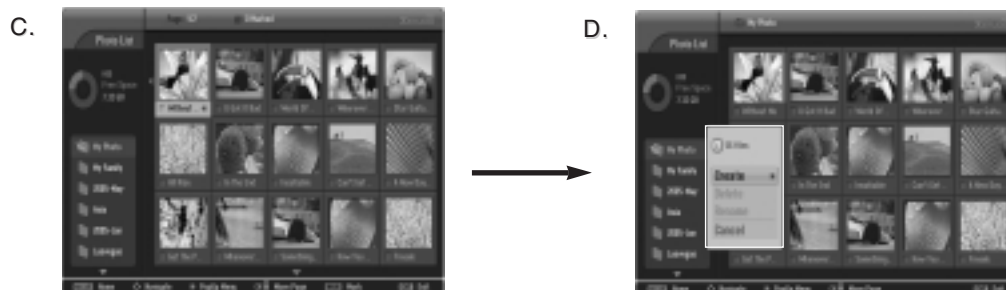


Photo List

Screen Components



Folder List



3. Select the desired folder in the folder list and then press the **ENTER** button to view the detailed menu.

- **Create:** Create new folder.
- **Delete:** Delete folder (except 'My Photo').
- **Rename:** Edit folder name.
- **Cancel:** Close the detailed menu.

