

PLASMA TV OWNER'S MANUAL

42PG10	50PG10
42PG20	50PG20
42PG20C	50PG20
50PG30	60PG30

50PG20C 60PG30

NS-42PDP-09 NS-50PDP-09

Please read this manual carefully before operating your set.

Retain it for future reference.

Record model number and serial number of the set. See the label attached on the back cover and quote this information to your dealer when you require service.

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



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

P/NO: SAC30708031 (0801-REV00)

www.lgusa.com / www.lg.ca / www.lgcommercial.com

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

NOTE TO CABLE/TV INSTALLER

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

WARNING / CAUTION

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

FCC NOTICE

Class B digital device

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

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

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

CAUTION

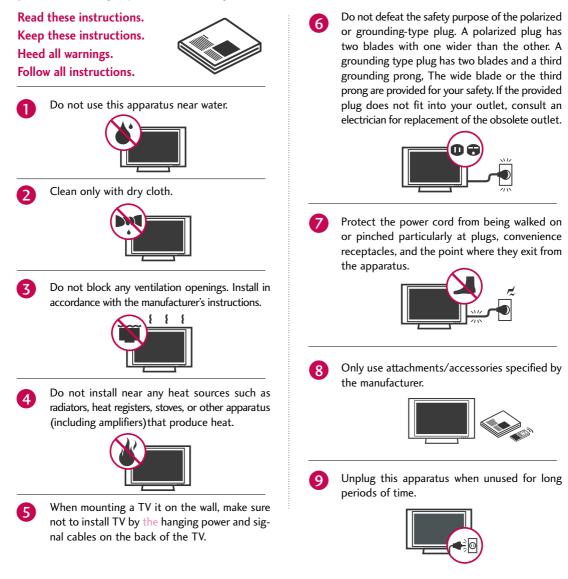
Do not attempt to modify this product in any way without written authorization from LG Electronics. Unauthorized modification could void the user's authority to operate this product

SAFETY INSTRUCTIONS

IMPORTANT SAFETY INSTRUCTIONS

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

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

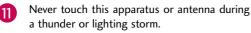




14)

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.





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

Refer all servicing to qualified service personnel. 13 Servicing is required when the apparatus has been damaged in any way, such as power-supply cord or plug is damaged, liquid has been spilled or objects have fallen into the apparatus, the apparatus has exposed to rain or moisture, does not operate normally, or has been dropped.



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

Do not overload wall outlets. Overloaded wall outlets, loose or damaged wall outlets, extension cords, frayed power cords, or damaged or cracked wire insulation are dangerous. Any of these conditions could result in electric shock or fire. Periodically examine the cord of your appliance, and if its appearance indicates damage or deterioration, unplug it, discontinue use

of the appliance, and have the cord replaced with an exact replacement part by an authorized servicer. Protect the power cord from physical or mechanical abuse, such as being twisted, kinked, pinched, closed in a door, or walked upon. Pay particular attention to plugs, wall outlets, and the point where the cord exits the appliance.





Outdoor use marking :

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



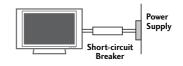
Wet Location Marking : Apparatus shall not be 16 exposed to dripping or splashing and no objects filled with liquids, such as vases, shall be placed on or over apparatus.



GROUNDING (17)

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

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



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DISCONNECTING DEVICE FROM MAINS Mains plug is the disconnecting device. The plug must remain readily operable.

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FEATURE OF THIS TV



SRSCOP 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.

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PREPARATION

ACCESSORIES

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

The accessories included may differ from the images below.











Owner's Manual

CD Manual

Remote Control, Batteries

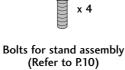
Power Cord

75ohm Round Cable

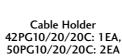
PREPARATION



Protection Cover (Refer to P.13)

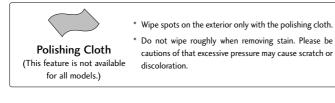


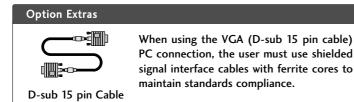
(Only 42PG10/20/20C)



Cable Management Clip

or





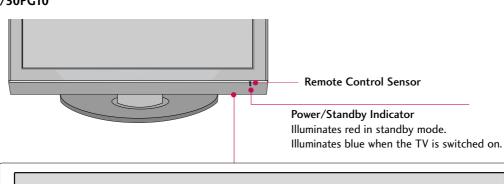
PREPARATION

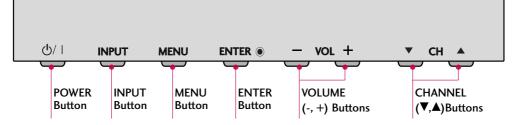
FRONT PANEL INFORMATION

Image shown may differ from your TV.

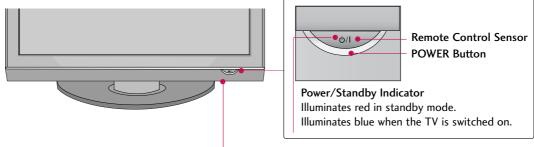
NOTE: If your TV has a protection tape attached, remove the tape. And then wipe the TV with a cloth (If a polishing cloth is included with your TV, use it).

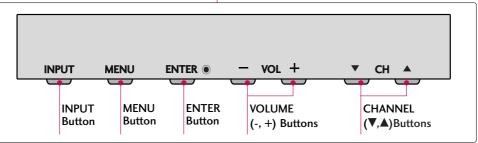
42/50PG10







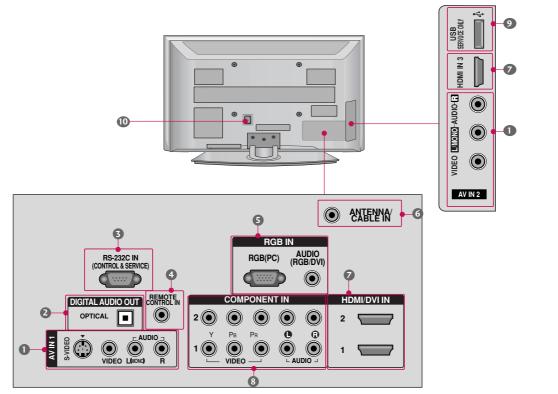




PREPARATION

BACK PANEL INFORMATION

Image shown may differ from your TV.



AV (Audio/Video) IN

Analog composite connection. Supports standard definition video only (480i).

S-VIDEO

Better quality than standard composition. Supports standard definition video only (480i).

DIGITAL AUDIO OUT

Digital audio output for use with amps and home theater systems. Includes an optical connection.

Note: In standby mode, this port do not work.

- SRS-232C IN (CONTROL & SERVICE) PORT Used by third party devices.
- REMOTE CONTROL PORT For a wired remote control.

G RGB (PC) Analog PC Connection. Uses a D-sub 15 pin cable (VGA cable). AUDIO (RGB/DVI)

1/8" headphone jack for analog PC audio input.

6 ANTENNA/CABLE IN

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

HDMI/DVI IN, HDMI IN

Digital Connection. Supports HD video and Digital audio. Doesn't support 480i. Accepts DVI video using an adapter or HDMI to DVI cable (not included)

COMPONENT IN

Analog Connection. Supports HD. Uses a red, green, and blue cable for video & red and white for audio.

9 USB SERVICE ONLY

Used for software updates.

D Power Cord Socket

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

PREPARATION

STAND INSTALLATION (Only 42PG10/20/20C)

Carefully place the TV screen side down on a

cushioned surface to protect the screen from

Image shown may differ from your TV.

PREPARATION

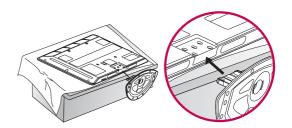




1

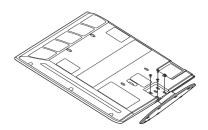
damage.

Assemble the TV as shown.

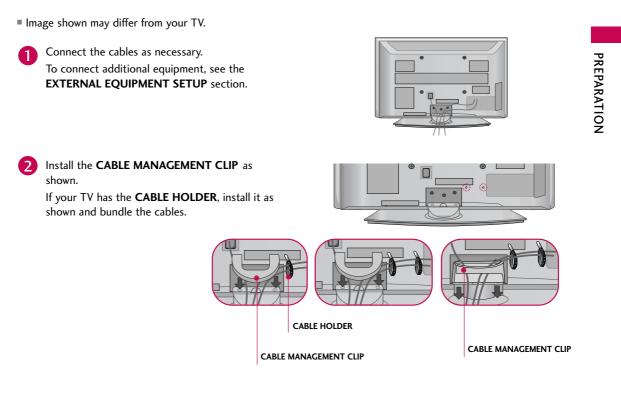




Fix the 4 bolts securely using the holes in the back of the TV.



CABLE MANAGEMENT



How to remove the CABLE MANAGEMENT CLIP

42PG10/20/20C

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



50PG10/20/20C, 50/60PG30

Hold the CABLE MANAGEMENT CLIP with both hands and pull it backward.



NOTE

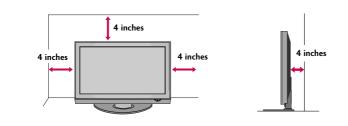
- ▶ Do not hold the CABLE MANAGEMENT CLIP when moving the TV.
- If the TV is dropped, you may be injured or the TV may be broken.

PREPARATION

DESKTOP PEDESTAL INSTALLATION

Image shown may differ from your TV.

PREPARATION

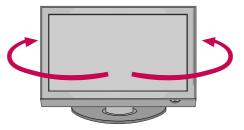


For proper ventilation, allow a clearance of 4 inches on all four sides from the wall.

CAUTION • Ensure adequate ventilation by following the clearance recommendations.

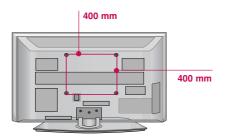
SWIVEL STAND (Only 50/60PG30)

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



VESA WALL MOUNTING

This TV accepts VESA FDMI compliant mounts via the four screw holes on the back of the TV. These mounts are sold by third parties and not available from LG. Refer to the instructions included with the mount for more info.



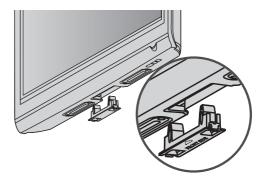
NOTE

Screw length needed depends on the wall mount used. For further information, refer to the instructions included with the mount.

PROTECTION COVER

Image shown may differ from your TV.

You can remove the stand before installing the TV on a wall mount by performing the previous stand instructions in reverse. After removing the stand, install the included **protection cover** over the hole for the stand.



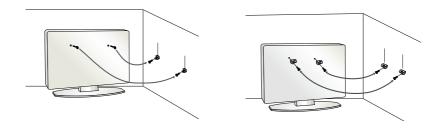
PREPARATION

SECURING THE TV TO THE WALL TO PREVENT FALLING

- You should purchase necessary components to prevent TV from falling off of the stand.
- Image shown may differ from your TV.

We recommend that you set up the TV close to a wall so it cannot fall over if pushed backwards. Additionally, we recommend that the TV be attached to a wall so it cannot be pulled in a forward direction, potentially causing injury or damaging the product.

Caution: Please make sure that children don't climb on or hang from the TV.



Insert the eye-bolts (or TV brackets and bolts) to tighten the product to the wall as shown in the picture.

* If your product has the bolts in the eye-bolts position before inserting the eye-bolts, loosen the bolts. * Insert the eye-bolts or TV brackets/bolts and tighten them securely in the upper holes.

Secure the wall brackets with the bolts (not provided as parts of the product, must purchase separately) to the wall. Match the height of the bracket that is mounted on the wall to the holes in the product. Ensure the eye-bolts or brackets are tightened securely.



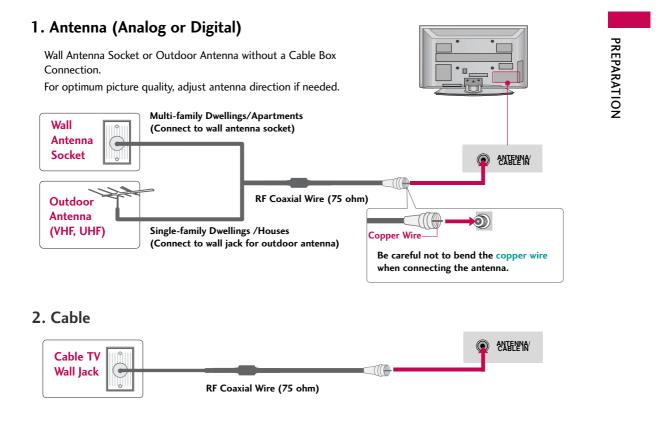
Use a sturdy rope (not provided as parts of the product, must purchase separately) to tie the product. It is safer to tie the rope so it becomes horizontal between the wall and the product.

NOTE

- ▶ Use a platform or cabinet strong enough and large enough to support the size and weight of the TV.
- To use the TV safely, make sure that the height of the bracket on the wall and the one on the TV are the same.

To prevent damage do not connect to the power outlet until all connections are made between the devices.

ANTENNA OR CABLE CONNECTION



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

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



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

HD RECEIVER SETUP

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

Component Connection

1. How to connect

Connect the video outputs (Y, PB, PR) of the digital settop box to the **COMPONENT IN VIDEO 1** jacks on the TV. Match the jack colors (Y = green, PB = blue, and PR = red).

Connect the audio output of the digital set-top box to the **COMPONENT IN AUDIO 1** jacks on the TV.

2. How to use

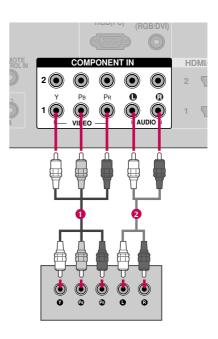
Turn on the digital set-top box.

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

- Select the Component 1 input source on the TV using the INPUT button on the remote control.
- If connected to COMPONENT IN2 input, select the Component 2 input source on the TV.

Supported Resolutions

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



Y, CB/PB, CR/PR

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

HDMI Connection

1. How to connect



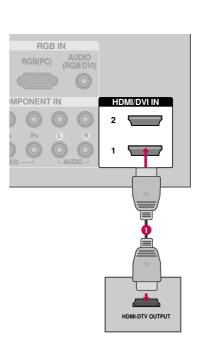
Connect the digital set-top box to HDMI/DVI IN1, 2, or HDMI IN3 jack on the TV.

2

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

2. How to use

- Turn on the digital set-top box.
 - (Refer to the owner's manual for the digital set-top box.)
- Select the HDMI1, HDMI2, or HDMI3 input source on the TV using the INPUT button on the remote control.



HDMI-DTV

Resolution	Horizontal Frequency(KHz)	Vertical Frequency(Hz)
720x480p	31.469 31.50	59.94 60.00
1280x720p	44.96 45.00	59.94 60.00
1920x1080i	33.72 33.75	59.94 60.00
1920x1080p	27.00 33.75 67.43 67.50	24.00 30.00 59.94 60.00

DVI to HDMI Connection

1. How to connect

EXTERNAL EQUIPMENT SETUP

Connect the DVI output of the digital set-top box to the HDMI/DVI IN1, 2, or HDMI IN3 jack on the TV.

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

2. How to use

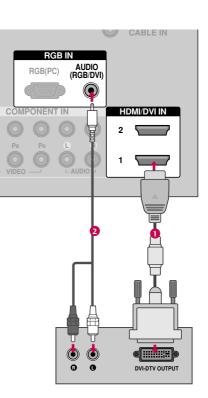
1

2

- Turn on the digital set-top box. (Refer to the owner's manual for the digital set-top box.)
- Select the HDMI1, HDMI2, or HDMI3 input source on the TV using the INPUT button on the remote control.

NOTE

A DVI to HDMI cable or adapter is required for this connection. DVI doesn't support audio, so a separate audio connection is necessary.



DVD SETUP

Component Connection

1. How to connect



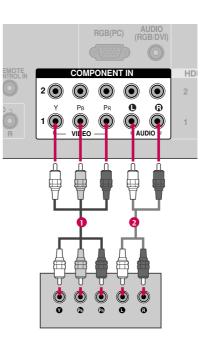
Connect the video outputs (Y, PB, PR) of the DVD to the **COMPONENT IN VIDEO1** jacks on the TV. Match the jack colors (Y = green, PB = blue, and PR = red).



Connect the audio outputs of the DVD to the **COMPONENT IN AUDIO1** jacks on the TV.

2. How to use

- Turn on the DVD player, insert a DVD.
- Select the Component 1 input source on the TV using the INPUT button on the remote control.
- If connected to COMPONENT IN 2 input, select the Component 2 input source on the TV.
- Refer to the DVD player's manual for operating instructions.



EXTERNAL EQUIPMENT SETUP

Component Input ports

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

Component ports on the TV	Y	Рв	PR
	Y	Рв	PR
Video output ports	Y	B-Y	R-Y
on DVD player	Y	СЬ	Cr
	Y	РЬ	Pr

S-Video Connection

1. How to connect

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

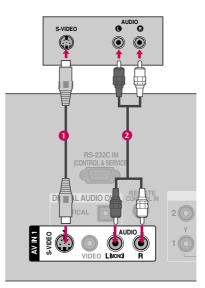
2

1

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

2. How to use

- Turn on the DVD player, insert a DVD.
- Select the AV1 input source on the TV using the INPUT button on the remote control.
- Refer to the DVD player's manual for operating instructions.



HDMI Connection

1. How to connect



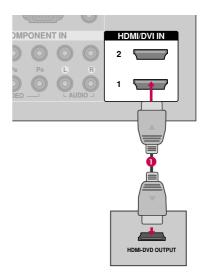
2

Connect the HDMI output of the DVD to the HDMI/DVI IN1, 2, or HDMI IN3 jack on the TV.

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

2. How to use

- Select the HDMI1, HDMI2, or HDMI3 input source on the TV using the INPUT button on the remote control.
- Refer to the DVD player's manual for operating instructions.



VCR SETUP

- To avoid picture noise (interference), leave an adequate distance between the VCR and TV.
- Use the ISM feature in the Option menu 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. This phenomenon is common to all TVs and is not covered by warranty.

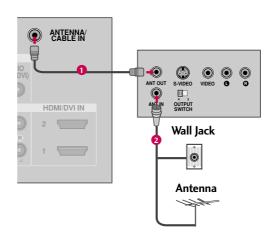
Antenna Connection

1. How to connect

- Connect the RF antenna out socket of the VCR to the ANTENNA/CABLE IN socket on the TV.
- 2 Connect the antenna cable to the RF antenna in socket of the VCR.

2. How to use

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



Composite (RCA) Connection

1. How to connect



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

2. How to use

- Insert a video tape into the VCR and press PLAY on the VCR. (Refer to the VCR owner's manual.)
- Select the AV1 input source on the TV using the INPUT button on the remote control.
- If connected to AV IN2, select AV2 input source on the TV.

NOTE

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

S-Video Connection

1. How to connect



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

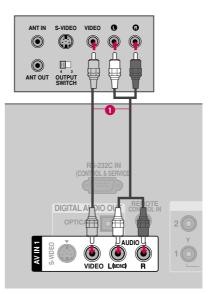
Connect the audio outputs of the VCR to the **AUDIO** input jacks on the TV.

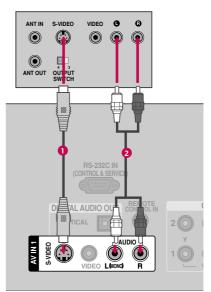
2. How to use

- Insert a video tape into the VCR and press PLAY on the VCR. (Refer to the VCR owner's manual.)
- Select the AV1 input source on the TV using the INPUT button on the remote control.

NOTE

 S-Video provides better quality than composite. Use it when available.





A CAUTION

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

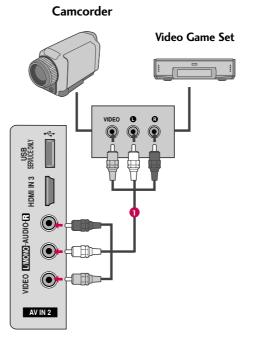
OTHER A/V SOURCE SETUP

1. How to connect

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

2. How to use

- Select the AV2 input source on the TV using the INPUT button on the remote control.
- If connected to AV IN1 input, select the AV1 input source on the TV.
- Operate the corresponding external equipment.



EXTERNAL EQUIPMENT SETUP

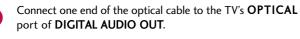
AUDIO OUT CONNECTION

Send the TV's audio to external audio equipment via the Audio Output port.

1. How to connect

1

2

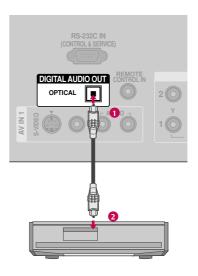


Connect the other end of the optical cable to the digital audio input on the audio equipment.

Set the "TV Speaker option - Off" in the AUDIO menu. (**▶ p.61**). See the external audio equipment instruction manual for operation.

NOTE

▶ When connecting with external audio equipments, such as amplifiers or speakers, you can turn the TV speakers off in the menu. (▶ p.61)



A CAUTION

- ▶ Do not look into the optical output port. Looking at the laser beam may damage your vision.
- ▶ Block the SPDIF out (optical) about the contents with ACP (Audio Copy Protection) function.

PC SETUP

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

VGA (D-Sub 15 pin) Connection

1. How to connect

EXTERNAL EQUIPMENT SETUP

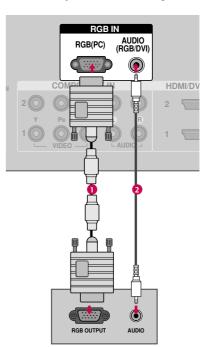
Connect the VGA output of the PC to the **RGB (PC)** jack on the TV.

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

2. How to use

2

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



DVI to HDMI Connection

1. How to connect

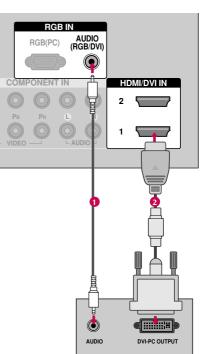


Connect the DVI output of the PC to the **HDMI/DVI IN 1, 2**, or **HDMI IN3** jack on the TV.

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

2. How to use

- Turn on the PC and the TV.
- Select the HDMI1, HDMI2 or HDMI3 input source on the TV using the INPUT button on the remote control.



Supported Display Specifications (RGB-PC, HDMI-PC)

For 26/32/37/42LG30

EXTERNAL EQUIPMENT SETUP

Resolution	Horizontal Frequency(KHz)	Vertical Frequency(Hz)
640x350	31.469	70.08 •
720x400	31.469	70.08 •
640x480	31.469	59.94
800x600	37.879	60.31
1024x768	48.363	60.00
1280x768	47.776	59.87
1360x768	47.720	59.799
1366x768	47.130	59.65

* Only RGB-PC mode

For 37/42/47/52LG50,32/37/42/47/52LG60 32/42/47/52LG70

Resolution	Horizontal Frequency(KHz)	Vertical Frequency(Hz)
640x350	31.468	70.09
720x400	31.469	70.08
640x480	31.469 37.500 37.861	59.94 75.00 72.80
800x600	35.156 37.879 46.875 48.077	56.25 60.31 75.00 72.18
1024x768	48.363 56.476 60.023	60.00 70.06 75.02
1280x768	47.776 60.289	59.87 74.893
1280x1024	63.981 79.976	60.02 75.025
1360x768	47.712	60.015
1600x1200	75.00	60.00
1920x1080 RGB-PC	66.587	59.934
1920x1080 HDMI-PC	67.5	60.00

* Only RGB-PC mode

NOTE

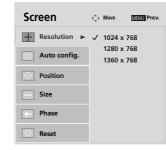
▶ Depending on graphic card and signal status, there can be some shaking to find best picture in a little time.

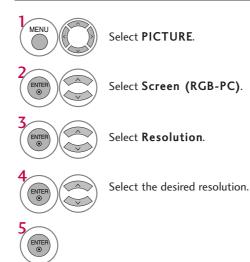
Screen Setup for PC mode

Selecting Resolution

You can choose the resolution in RGB-PC mode. The **Position**, **Phase**, and **Size** can also be adjusted.

		<≎ Move ⊙ Enter
۵.	Contrast	50
	 Brightness 	50
	 Sharpness 	50
O	Color	50
0	• Tint	0 R
EX	 Advanced C 	ontrol
1841	• Reset	
💩 Screer	(RGB-PC)	0

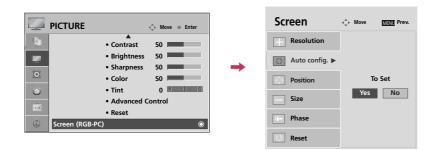


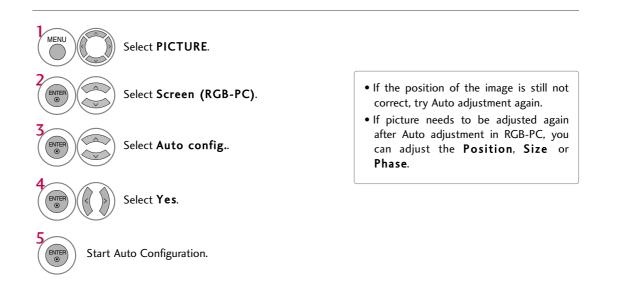


26

Auto Configure

Automatically adjusts picture position and minimizes image instability. After adjustment, if the image is still not correct, try using the manual settings or a different resolution or refresh rate on the PC.



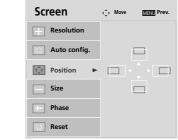


Adjustment for screen Position, Size, and Phase

If the picture is not clear after auto adjustment and especially if characters are still trembling, adjust the picture phase manually.

This feature operates only in RGB-PC mode.

		↓ Move ⊙ Enter		Scr
<u>()</u>	 Contrast 	50		+
-	 Brightness 	50		
_	 Sharpness 	50	→	
0	Color	50		
0	• Tint	0 R G		
Ē	 Advanced C 	ontrol		
	• Reset			
👶 Screen (RGI	3-PC)	O		4



Select **PICTURE**.

Select Screen (RGB-PC).

Select **Position**, **Size**, or **Phase**.



MENI

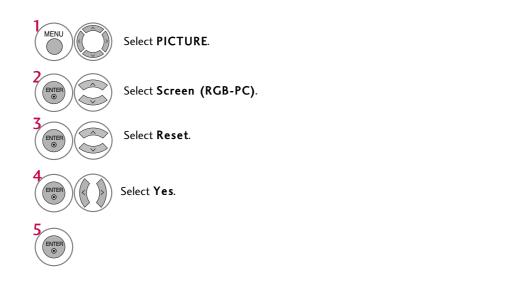
Make appropriate adjustments.

- Position: This function is to adjust picture to left/right and up/down as you prefer.
- Size: This function is to minimize any vertical bars or stripes visible on the screen background. And the horizontal screen size will also change. The Size adjustment range is -30 ~ 30.
- Phase: This function allows you to remove any horizontal noise and clear or sharpen the image of characters. The Phase adjustment range is -32 ~ 31.

Screen Reset (Reset to original factory values)

Returns **Position**, **Size**, and **Phase** to the default factory settings. This feature operates only in RGB-PC mode.

	PICTURE	↔ Move ○ Enter	-⇔ Move MENU Prev.
	• Contrast 50		
.	• Brightness 50	Auto config	
\odot	Sharpness 50 Color 50		Initialize Settings.
٢	• Tint 0 Rimming	• Tint 0 Rimming	Yes No
	Advanced Control Reset		
3	Screen (RGB-PC)	Dhass	
		🔘 Reset 🕨	

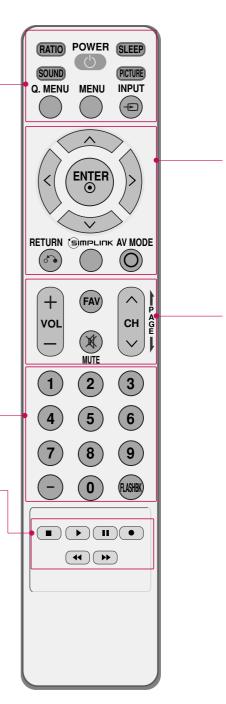


WATCHING TV / CHANNEL CONTROL

REMOTE CONTROL FUNCTIONS

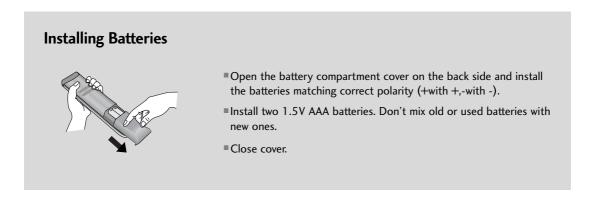
When using the remote control, aim it at the remote control sensor on the TV.

RATIO	Change the aspect ratio.▶ p.44
SLEEP	Select the amount of time before your TV turns off auto- matically.▶ p.72
PICTURE	Selects the factory preset picture depend on the viewing environment. $\blacktriangleright p.46$
SOUND	Selects the factory preset sound for type of program. ▶ p.58
POWER	Turns your TV on or off.
Q.MENU	Select the desired quick menu source. P.33
MENU	Displays the main menu. Clear all on-screen displays and return to TV viewing from any menu.
INPUT	External input modes rotate in regular sequence. p.38
NUMBER button	
— (DASH)	Used to enter a program number for multiple program channels such as 2-1, 2-2, etc.
FLASHBK	Tune to the last channel viewed.
VCR/DVD, SIMPLINK Control buttons	 Control video cassette recorders or DVD players. Control the SIMPLINK compatible devices.



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THUMBSTICK (Up/Down/Left Right/ENTER)	Navigate the on-screen menus and adjust the system settings to your preference.
RETURN	Allows the user to move return one step in an interactive application or other user interaction function.
SIMPLINK	See a list of AV devices connected to TV. When you toggle this button, the SIMPLINK menu appears at the screen. ▶ p.42
AV MODE	It helps you select and set images and sounds when connecting AV devices. p.40
VOLUME UP /DOWN	Increase/decrease the sound level.
FAV	Scroll through the programmed Favorite channels. \blacktriangleright p.33
MUTE	Switch the sound on or off. ▶ p.32
 CHANNEL UP/DOWN	Select available channels.
PAGE UP/DOWN	Move from one full set of screen information to the next one.



WATCHING TV / CHANNEL CONTROL

TURNING ON TV

First, connect power cord correctly.

At this moment, the TV switches to standby mode.

In standby mode to turn TV on, press the ⊕/I, INPUT, CH (▲ or ▼) button on the TV or press the POWER, INPUT, CH(∧ or ∨), Number (0~9) button on the remote control.

2

3

1

Select the viewing source by using the **INPUT** button on the remote control. ■ This TV is programmed to remember which power state it was last set to, even if the power cord is out.

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

NOTE

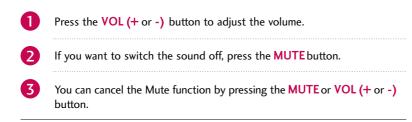
▶ If you intend to be away on vacation, disconnect the power plug from the wall power outlet.

CHANNEL SELECTION

Press the CH (\land or \lor) or NUMBER buttons to select a channel number.

VOLUME ADJUSTMENT

Adjust the volume to suit your personal preference.



QUICK MENU

Your TV's OSD (On Screen Display) may differ slightly from what is shown in this manual. Q.Menu (Quick Menu) is a menu of features which users might use frequently.

- **Aspect Ratio**: Selects your desired picture format.
- **Power Saving**: Adjusts screen brightness to reduce the power consumption of the TV.
- Clear Voice: By differentiating the human sound range from others, it helps make human voices sound better.
- Picture Mode: Selects the factory preset picture depend on the viewing environment.
- **Sound Mode**: Selects the factory preset sound for type of program.

- **Caption**: Select on or off.
- Multi Audio: Changes the audio language (Digital signal).

SAP: Selects MTS sound (Analog signal).

- **Sleep Timer**: Select the amount of time before your TV turns off automatically.
- Del/Add/Fav: Select channel you want to add/delete or add the channel to the Favorite List.

Q.Menu	
🖂 Aspect Ratio	◀ 16:9 ▶
- Power Saving	3
IC Clear Voice	Off
Picture Mode	Vivid
🎜 Sound Mode	Standard
Caption	Off
((®)) Multi Audio	English
🕒 ² Sleep Timer	Off
✓ CH Del/Add/Fav	Add
Clo	se

) Display each menu.

Make appropriate adjustments.

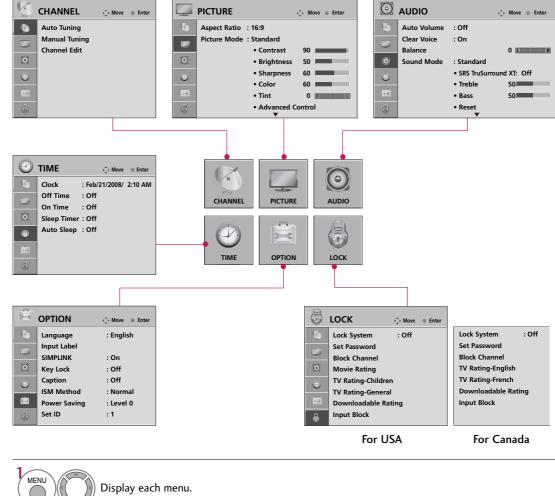
Return to TV viewing.

Q. MENU

WATCHING TV / CHANNEL CONTROL

ON-SCREEN MENUS SELECTION

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



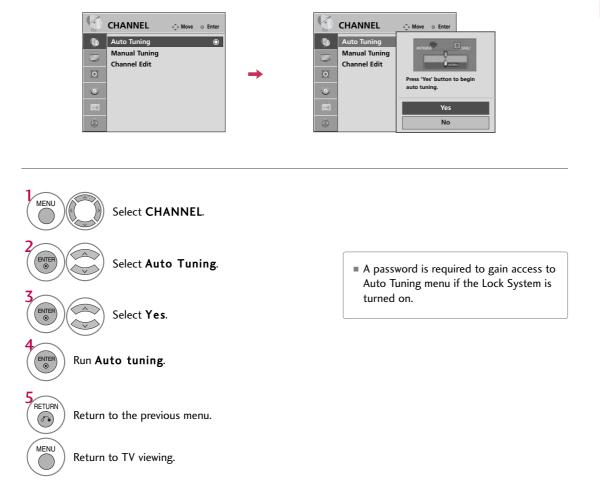
Display each menu. Display each menu. Display each menu. Select a menu item. Enter to the pop up menu. Return to TV viewing.

CHANNEL SETUP

Auto Scan (Auto Tuning)

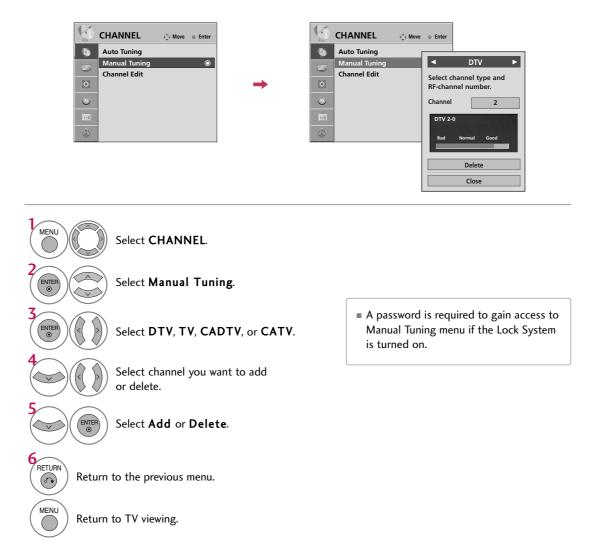
Automatically finds all channels available through antenna or cable inputs, and stores them in memory on the channel list.

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



Add/Delete Channel (Manual Tuning)

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



CHANNEL SETUP

Channel Editing

From the default channel list created from the Auto Tuning channel search, you can create two different types of channel lists in memory: "custom list" and "favorite channel list".

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 and the channels deleted from the Custom List are displayed in gray.

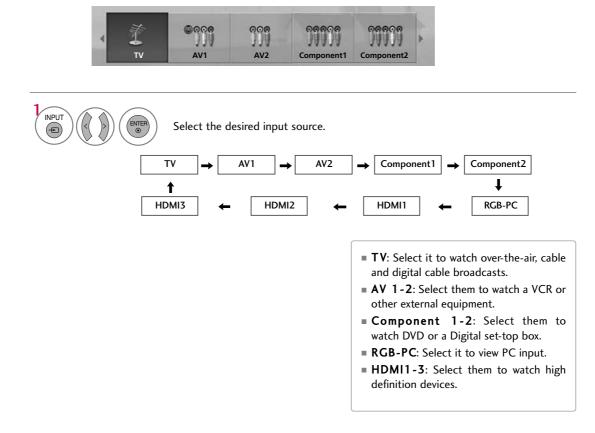
Once a channel is highlighted you can add or delete the channel by referring to the small window at the topright corner of the screen.

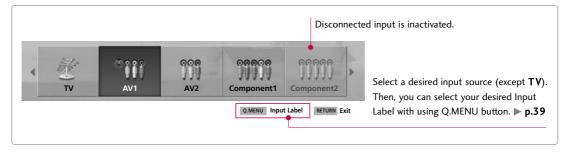




INPUT LIST

Only these input signals which are connected to a TV can be activated and selected.

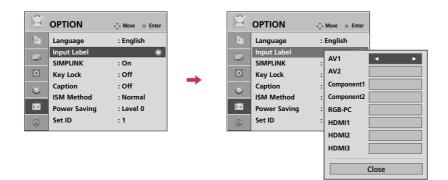




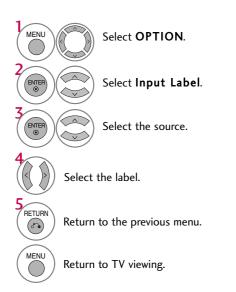
38

INPUT LABEL

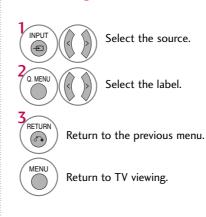
You can set a label for each input source when it's not in use.



With using OPTION menu

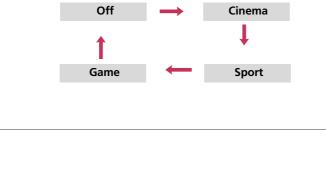


With using INPUT button



AV MODE

You can select the optimal images and sounds.





60

Press the AV MODE button repeatedly to select the desired source.

Return to TV viewing.

- If you select "Cinema" in AV mode, Cinema will be selected both for "PIC-TURE menu - Picture Mode" and "AUDIO menu - Sound Mode" respectively.
- If you select "Off" in AV mode, the "Picture Mode" and "Sound Mode" return to previous selected value.

40

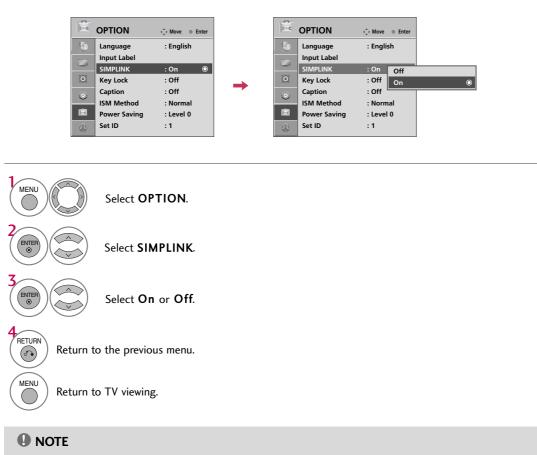
SIMPLINK

This function operates only with devices with the Simplink logo.

If connected other brand device with the Simplink logo, it may not work.

This allows you to control and play other AV devices connected with HDMI cable without additional cables and settings.

To start using SIMPLINK, turn it on in the user menus.



- Connect the HDMI/DVI IN or HDMI IN terminal of the TV to the rear terminal (HDMI terminal) of the SIM-PLINK device with the HDMI cable.
 - When you switch the Input source with the INPUT button on the remote control, the SIMPLINK device will stop.
 - When you select a device with home theater functionality, the sound output automatically switches to the home theater speakers.
- ▶ If a connected SIMPLINK home theater system doesn't play the audio from the TV, connect the DIGITAL AUDIO OUT terminal on the back of the TV to the DIGITAL AUDIO IN terminal on the back of the SIM-PLINK device with an OPTICAL cable.

SIMPLINK Functions

- **Direct Play:** After connecting AV devices to the TV, you can directly control the devices and play media without additional settings.
- **Select AV device:** Enables you to select one of the AV devices connected to TV.
- Disc playback: Control connected AV devices by pressing the ^ < <pre>> , ENTER, ▶, ■, II <</pre> and ▶▶ buttons.
- **Power off all devices:** When you power off the TV, all connected devices are turned off.
- **Switch audio-out:** Offers an easy way to switch audio-out.
- **Sync Power on:** When you play the connected AV device, TV will automatically turn on.

(A device, which is connected to the TV through a HDMI cable but does not support SIMPLINK, does not provide this function)

Note: To operate SIMPLINK, an HDMI cable over Version 1.2 with *CEC function should be used. (*CEC: Consumer Electronics Control).

SIMPLIN Display SIMPLINK menu. Select the desired device. _ _ •••

Control connected AV devices.



SIMPLINK Menu

- **TV viewing**: Switch to the previous TV channel regardless of the current mode.
- **DISC playback**: Select and play discs. When multiple discs are available, the titles of discs are conveniently displayed at the bottom of the screen.
- VCR playback: Control the connected VCR.
- HDD Recordings playback: Control recordings stored in HDD.
- Audio Out to Home Theater speaker/Audio Out to TV: Select Home Theater speaker or TV speaker for Audio Out.



- When no device is connected (displayed in gray)
- Selected Device
- When a device is connected (displayed in bright color)

PICTURE CONTROL

PICTURE SIZE (ASPECT RATIO) CONTROL

This feature lets you choose the way an analog picture with a 4:3 aspect ratio is displayed on your TV. **RGB-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, the image could become imprinted on the screen and remain visible.

This phenomenon is common to all manufacturers and is not covered by warranty. Although, after watching video that did not fill the screen, any after-image from the black bars will normally dissipate after a few minutes.



Set By Program	→	4:3	\rightarrow	16:9
1				Ļ
Just Scan	←	Zoom2	-	Zoom1



Select the desired picture format.

Return to TV viewing.

PICTURE CONTROL

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.



16:9

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



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.



Just Scan

Following selection will lead to you view the picture of best quality without loss of original picture in high resolution image.

Notes: If there are noise in original picture, you can see the noise at the edge.

Just Scan operates only in

DTV/CADTV/Component/HDMI-DTV/DVI-DTV (720p/1080i/1080p) input source.

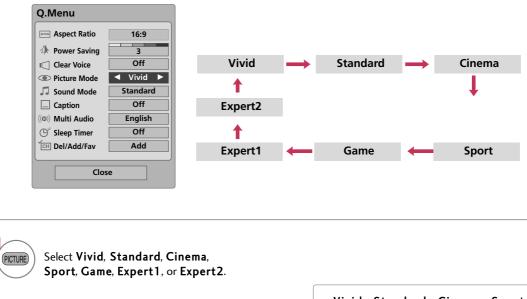


PICTURE CONTROL

PRESET PICTURE SETTINGS

Picture Mode - Preset

There are factory presets for picture settings available in the user menus. You can use a preset, change each setting manually.



PICTURE CONTROL

\ \

Return to TV viewing.

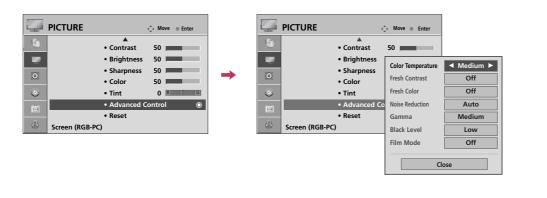
RETURN

 (\mathbf{a})

Vivid, Standard, Cinema, Sport, Game, Expert1, or Expert2 Settings are preset for the optimum picture quality at the factory and are not adjustable.

Color Tone - Preset

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



MENU Select **PICTURE**. (Select Advanced Control. Select Color Temperature. Select Cool, Medium, or Warm. RETURN Return to the previous menu. 6. MENU

Return to TV viewing.

PICTURE CONTROL

MANUAL PICTURE ADJUSTMENT

Picture Mode - User Mode

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

