



LCD TV MODELS PLASMA TV MODELS

32LG6***
37LG6***
42PG6***
42LG6***
47LG6***
42LG7***
47LG7***
50PG7***
52LG7***

32LG8*** 42LG8***

Please read this manual carefully before operating your set. Retain it for future reference.

Record model number and serial number of the set. Refer to the label on the back cover and quote this information.

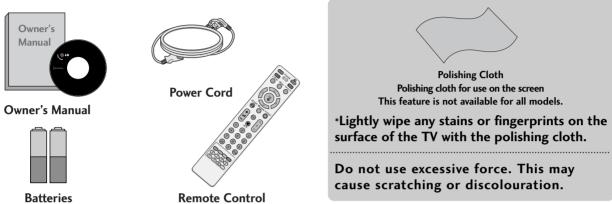
To your dealer when requiring service.

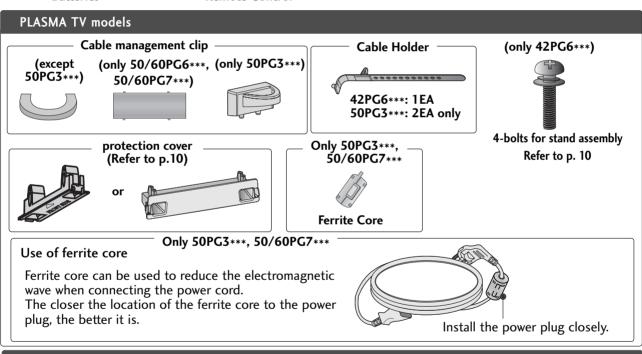
ACCESSORIES

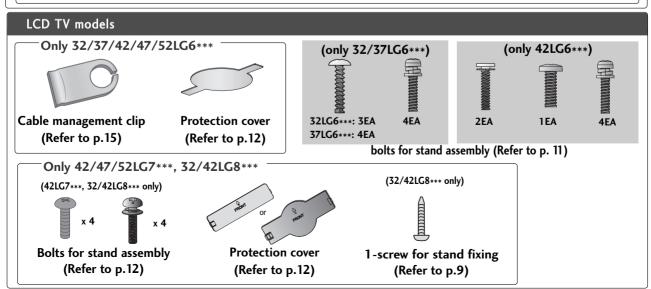
Ensure that the following accessories are included with your TV.

If an accessory is missing, please contact the dealer where you purchased the product.

■ Image shown may differ from your TV.







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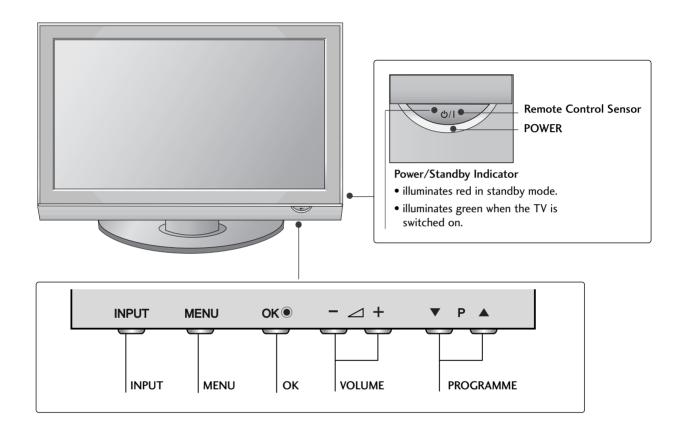
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PREPARATION

FRONT PANEL CONTROLS

- This is a simplified representation of the front panel. Image shown may differ from your TV.
- If your product has a protection film attached, remove the film and then wipe the product with a polishing cloth.

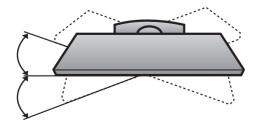
Plasma TV Models



Swivel Stand

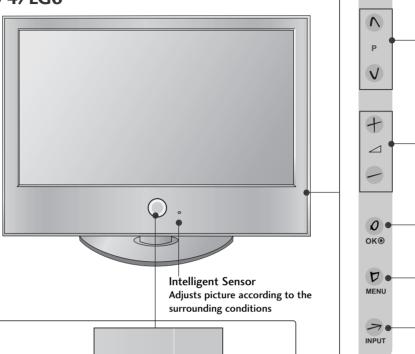
This feature is not available for all models.

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



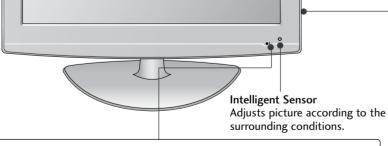
LCD TV Models

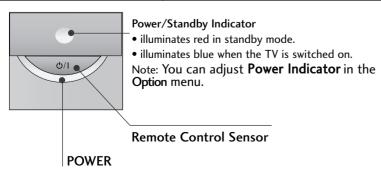
32/37/42/47LG6***

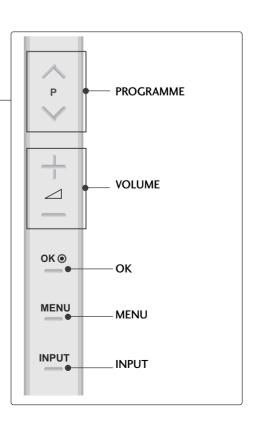


POWER
Remote Control Sensor
Power/Standby Indicator
• illuminates red in standby mode.
• illuminates White when the TV is switched on.
Note: You can adjust Power Indicator in the Option menu.

42/47/52LG7***







PROGRAMME

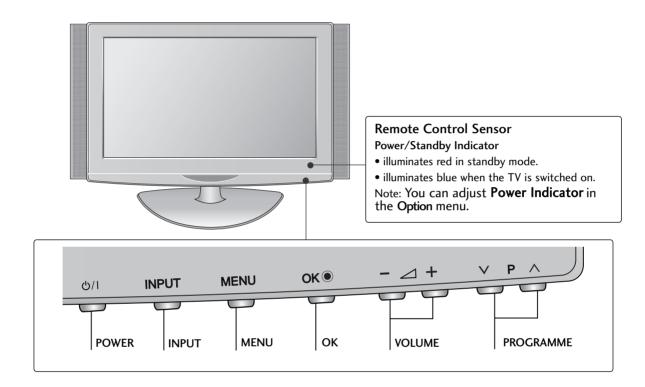
VOLUME

OK

MENU

INPUT

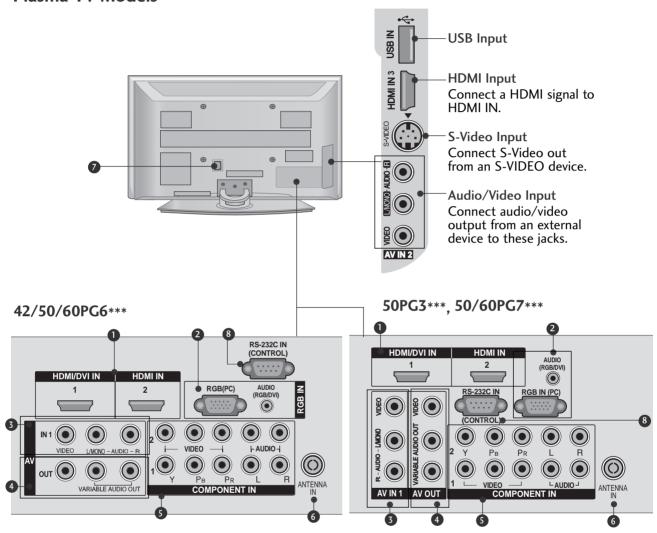
32/42LG8***



BACK PANEL INFORMATION

■ This is a simplified representation of the back panel. Image shown may differ from your TV.

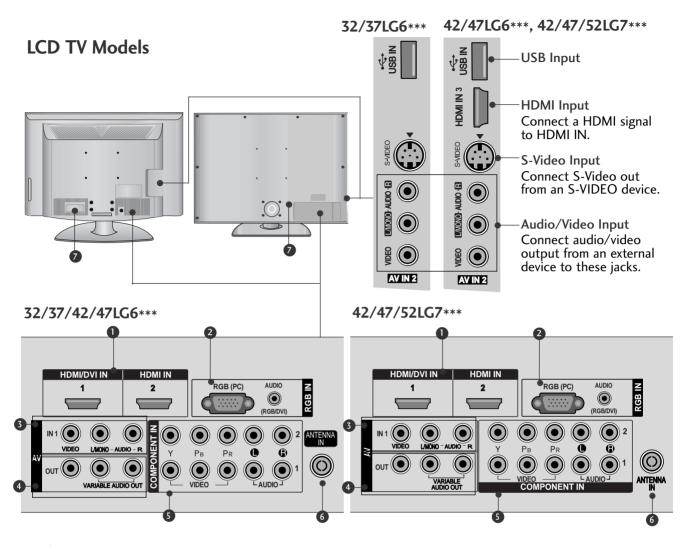
Plasma TV Models



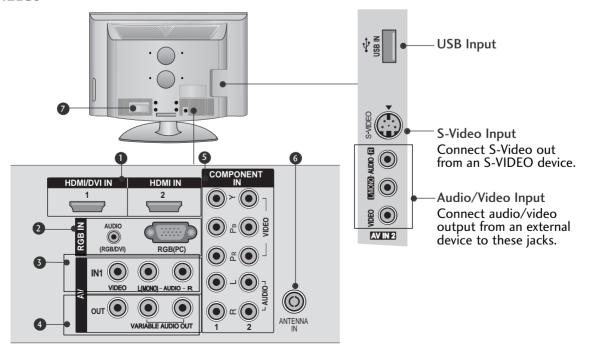
- HDMI Input Connect a HDMI signal to HDMI IN. Or DVI(VIDEO)signal to HDMI/DVI port with DVI to HDMI cable.
- 2 RGB/Audio Input Connect the monitor output from a PC to the appropriate input port.
- 3 Audio/Video Input (AV IN 1) Connect audio/video output from an external device to these jacks.
- AV Output Connect second TV or monitor to the AV OUT socket on the TV. Variable Audio Output Connect an external amplifier or add a subwoofer to your surround sound system.

- Component Input Connect a component video/audio device to these jacks.
- 6 Antenna Input Connect RF antenna to this jack.
- Power Cord Socket This TV operates on an AC power. The voltage is indicated on the Specifications page. Never attempt to operate the TV on DC power.
- 8 RS-232C Input (CONTROL) Port Connect the serial port of the control devices to the RS-232C jack. (This feature is not available for all models.)

PREPARATION







HDMI Input

Connect a HDMI signal to HDMI IN.

Or DVI(VIDEO) signal to HDMI/DVI port with DVI to HDMI cable.

(HDMI IN 3 is available for 42/47LG6***, 42/47/52LG7***)

2 RGB/Audio Input

Connect the monitor output from a PC to the appropriate input port.

- 3 Audio/Video Input Connect audio/video output from an external device to these jacks.
- 4 AV Output

Connect second TV or monitor to the AV OUT socket on the TV.

Variable Audio Output

Connect an external amplifier or add a subwoofer to your surround sound system.

6 Component Input

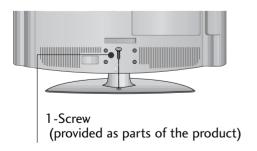
Connect a component video/audio device to these jacks.

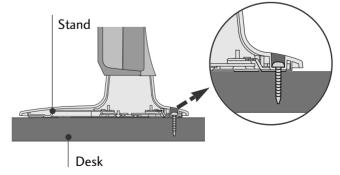
- 6 Antenna Input Connect RF antenna to this jack.
- Power Cord Socket

This TV operates on an AC power. The voltage is indicated on the Specifications page. Never attempt to operate the TV on DC power.

ATTACHING THE TV TO A DESK (Only 32/42LG8***)

The TV must be attached to desk so it cannot be pulled in a forward/backward direction, potentially causing injury or damaging the product. Use only an attached screw.





WARNING

▶ To prevent TV from falling over, the TV should be securely attached to the floor/wall per installation instructions. Tipping, shaking, or rocking the machine may cause injury.

PREPARATION

STAND INSTALLATION

■ Image shown may differ from your TV.

When assembling the desk type stand, check whether the bolt is fully tightened. (If not tightened fully, the product can tilt forward after the product installation.) If you tighten the bolt with excessive force, the bolt can deviate from abrasion of the tightening part of the bolt.

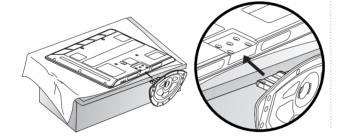
only 42PG6***



Carefully place the TV screen side down on a cushioned surface to protect the screen from damage.

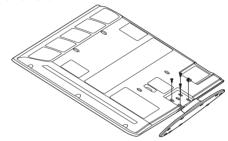


Assemble the TV as shown.





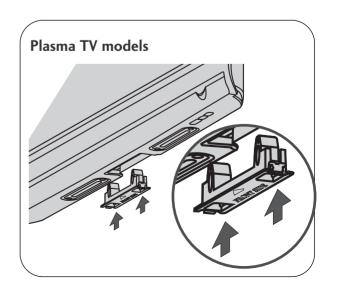
Fix the 4 bolts securely using the holes in the back of the TV.



Not Using the Desk-type Stand

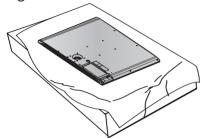
■ Image shown may differ from your TV.

When installing the wall-mounted unit, use the protection cover for desk-type stand installation. Insert the PROTECTION COVER into the TV until clicking sound.

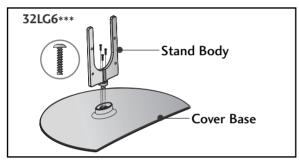


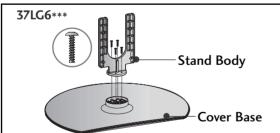
only 32/37/42LG6***

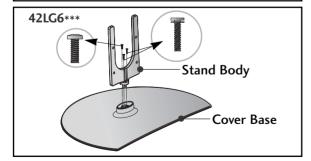
Carefully place the TV screen side down on a cushioned surface to protect the screen from damage.



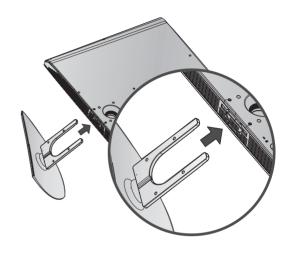
Assemble the parts of the Stand Body with Cover Base of the TV.



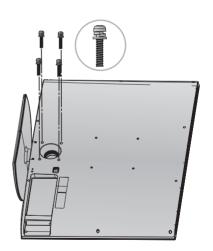




3 Assemble the TV as shown.



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

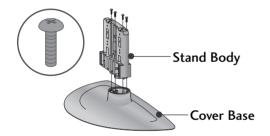


only 42LG7***, 32/42LG8***

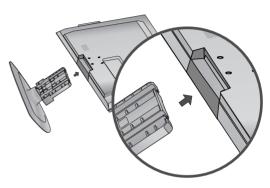
Carefully place the TV screen side down on a cushioned surface to protect the screen from damage.



Assemble the parts of the **Stand Body** with the **Cover Base** of the TV.



3 Assemble the TV as shown.



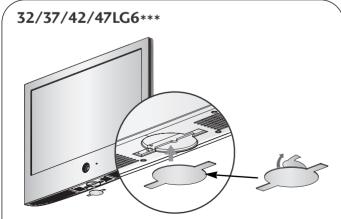
Fix the 4 bolts securely using the holes in the back of the TV.



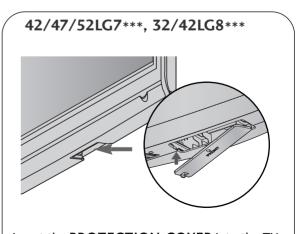
Not Using the Desk-type Stand

When installing the wall-mounted unit, use the protection cover for desk-type stand installation.

■ Image shown may differ from your TV.



After removing the protection paper from the protection cover, adhere it to the TV as shown.



Insert the **PROTECTION COVER** into the TV until clicking sound.

BACK COVER FOR WIRE ARRANGEMENT

■ Image shown may differ from your TV.

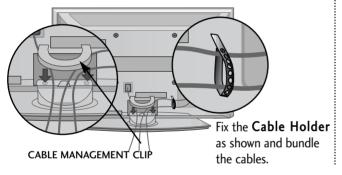
42PG6***

Connect the cables as necessary.

To connect additional equipment, see the **External Equipment Setup** section.



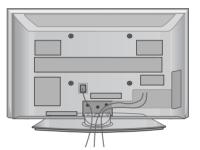
Install the CABLE MANAGEMENT CLIP as shown.



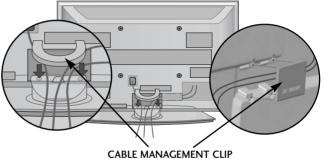
50/60PG6***, 50/60PG7***

Connect the cables as necessary.

To connect additional equipment, see the **External Equipment Setup** section.

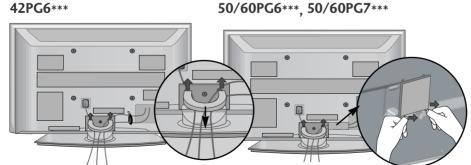


Install the CABLE MANAGEMENT CLIP as shown.



How to remove the cable management clip

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



Separate CABLE MAN-AGEMENT from TV by pressing two latches.

* For the 42PG6*** model, press the center of the CABLE MANAGEMENT CLIP and then lift up it.

- ▶ Do not use the **CABLE MANAGEMENT CLIP** to lift the TV.
- If the TV is dropped, you may be injured or the TV may be damaged.

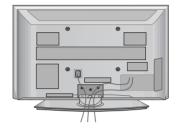
PREPARATION

■ Image shown may differ from your TV.

50PG3***

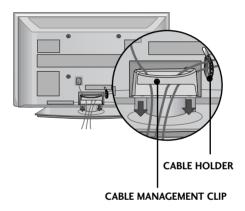
Connect the cables as necessary.

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



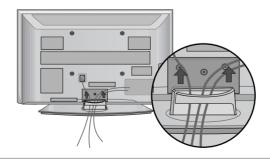
Install the CABLE MANAGEMENT CLIP as shown.

If your TV has the CABLE HOLDER, install it as shown and bundle the cables.



How to remove the cable management clip

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



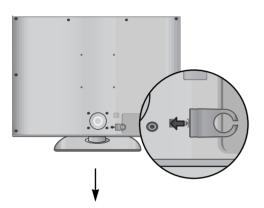
- ▶ Do not use the CABLE MANAGEMENT CLIP to lift the TV.
- If the TV is dropped, you may be injured or the TV may be damaged.

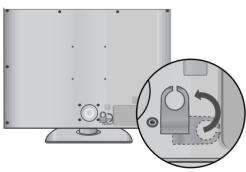
32/37/42/47LG6***

Align the hole with the tab on the CABLE MANAGEMENT CLIP.

Turn the **CABLE MANAGEMENT CLIP** as shown.

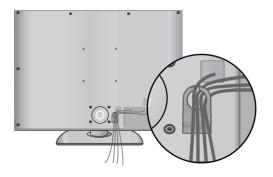
Note: This cable management can be broken by excessive pressure.





Connect the cables as necessary.

To connect additional equipment, see the External Equipment Setup section.

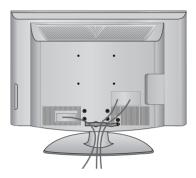


42/47/52LG7***, 32/42LG8***

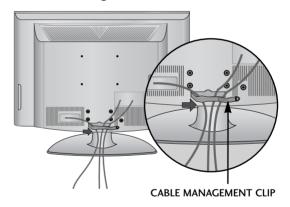
Connect the cables as necessary.

To connect additional equipment, see the

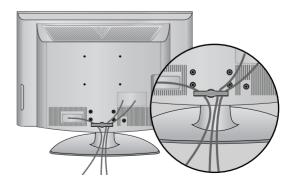
External Equipment Setup section of the manual.



Open the CABLE MANAGEMENT CLIP as shown and manage the cables.

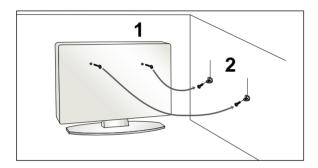


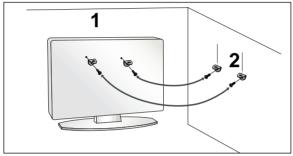
Fit the CABLE MANAGEMENT CLIP as shown.



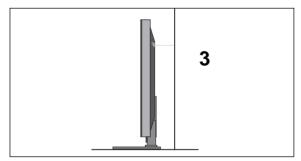
PLEASE SET IT UP CAREFULLY SO THE PRODUCT DOES NOT FALL OVER.

- You should purchase necessary components to fix the TV to the wall on the market.
- Position the TV close to the wall to avoid the possibility of it falling when pushed.
- The instructions shown below are a safer way to set up the TV, which is to fix it to the wall, avoiding the possibility of it falling forwards if pulled. This will prevent the TV from falling forward and causing injury. This will also prevent the TV from damage. Ensure that children do not climb or hang from the TV.





- Use the eye-bolts or TV brackets/bolts to fix the product to the wall as shown in the picture. (If your TV has bolts in the eyebolts, loosen then bolts.)
 - * Insert the eye-bolts or TV brackets/bolts and tighten them securely in the upper holes.
- 2 Secure the wall brackets with bolts to the wall. Ensure that both brackets are even.



Use a strong cord to secure the TV.

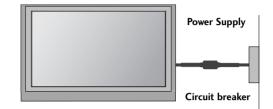
Secure the cord in such a way that it becomes taught when the TV is in position.

- ▶ When moving the TV undo the cords first.
- ▶ Use a platform or cabinet string 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 on the TV is the same.

- 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.

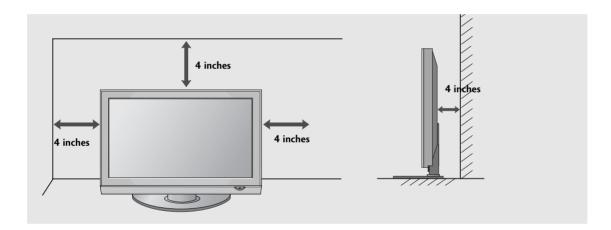
EARTHING

Ensure that you connect the 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 earth the TV by connecting it to telephone wires, lightening rods or gas pipes.



DESKTOP PEDESTAL INSTALLATION

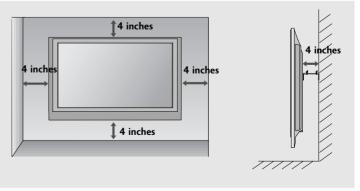
For adequate ventilation allow a clearance of 4" (10cm) all around the TV.



WALL MOUNT: HORIZONTAL INSTALLATION

For adequate ventilation allow a clearance of 4" (10cm) all around the TV. We recommend that you use a wall mounting bracket of LG brand when mounting the TV to a wall.

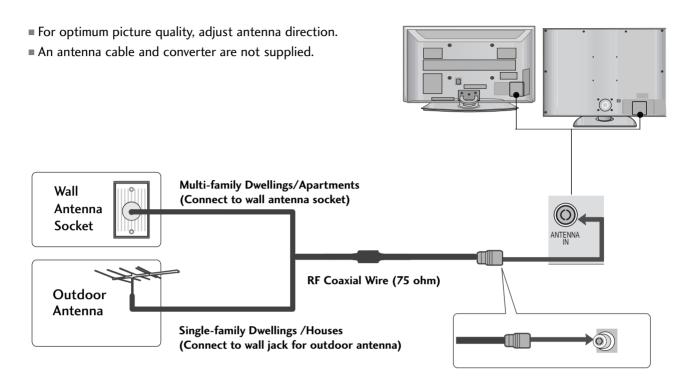


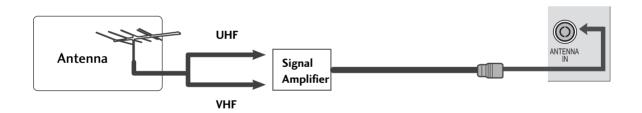


PREPARATION

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

ANTENNA CONNECTION





- In poor signal areas, to achieve better picture quality it may be necessary to install a signal amplifier to the antenna as shown above.
- If signal needs to be split for two TVs, use an antenna signal splitter for connection.

- To avoid damaging any equipment, never plug in any power cords until you have finished connecting all equipment.
- This section on EXTERNAL EQUIPMENT SETUP mainly uses diagrams for the 42/50/60PG6*** models.
- Image shown may differ from your TV.

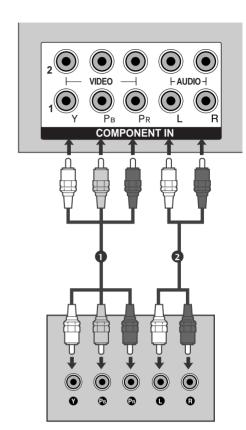
HD RECEIVER SETUP

Connecting with a component cable

- Connect the video outputs (Y, PB, PR) of the digital TV top box to the COMPONENT IN VIDEO jacks on the TV.
- Connect the audio output of the digital set-top box to the COMPONENT IN AUDIO jacks on the TV.
- Turn on the digital set-top box.

 (Refer to the owner's manual for the digital set-top box.)
- Select Component1 input source using the INPUT button on the remote control.

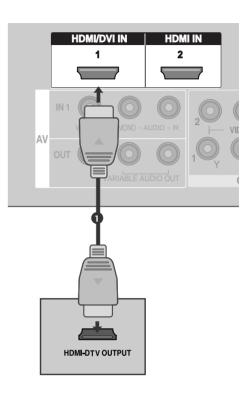
If connected to **COMPONENT IN 2**, select **Component2** input source.



Signal	Component	HDMI1/DVI, HDMI2, HDMI3(except 32/37LG6***, 32/42LG8***)
480i/576i	Yes	No
480p/576p	Yes	Yes
720p/1080i	Yes	Yes
1080p	Yes (50Hz, 60Hz only)	Yes (24Hz, 30Hz, 50Hz, 60Hz)

Connecting a set-top box with an HDMI cable

- Connect the HDMI output of the digital set-top box to the HDMI/DVI IN 1, HDMI IN 2 or HDMI IN 3 (except 32/37LG6***, 32/42LG8***) jack on the TV.
- Select HDMI1/DVI, HDMI2 or HDMI3(except 32/37LG6***, 32/42LG8***) input source using the INPUT button on the remote control.
- Turn on the digital set-top box.
 (Refer to the owner's manual for the digital set-top box.)

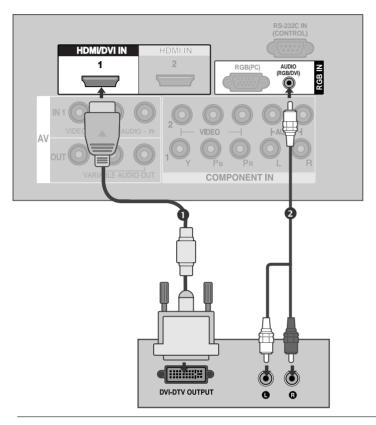


NOTE

- TV can receive the video and audio signal simultaneously with using a HDMI cable.
- ▶ If the digital set-top box supports Auto HDMI function, the output resolution of the source device will be automatically TV to 1280x720p.
- ▶ If the digital set-top box player does not support Auto HDMI, you need to TV the output resolution appropriately.

To get the best picture quality, adjust the output resolution of the source device to 1280x720p. (42/47LG6***, 42/47/52LG7***, 50PG3***, 50/60PG7***, 32/42LG80F* : <math>1920x1080i/1080p)

Connecting with a HDMI to DVI cable



- Connect the DVI output of the digital set-top box to the HDMI/DVI IN 1 jack on the TV.
- Connect the audio output of the digital set-top box to the AUDIO(RGB/DVI) jack on the TV.
- Turn on the digital set-top box. (Refer to the owner's manual for the digital set-top box.)
- 4 Select HDMI1/DVI input source using the INPUT button on the remote control.

- ► HDMI2, HDMI3 (except 32/37LG6***, 32/42LG8***) source does not support DVI source.
- ▶ If the set-top box has a DVI output and no HDMI output, a separated audio connection is necessary.
- ▶ If the set-top box does not support Auto DVI, you need to set the output resolution appropriately.

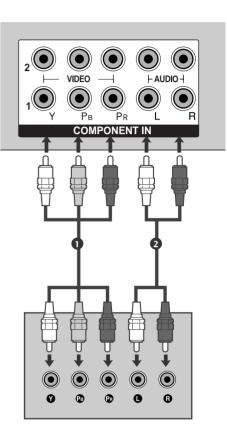
DVD SETUP

Connecting with a component cable

- Connect the video outputs (Y, PB, PR) of the DVD to the COMPONENT IN VIDEO jacks on the TV.
- Connect the audio outputs of the DVD to the COMPONENT IN AUDIO jacks on the TV.
- Turn on the DVD player, insert a DVD.
- 4 Select Component1 input source using the INPUT button on the remote control.

If connected to **COMPONENT IN 2**, select **Component 2** input source.

Refer to the DVD player's manual for operating instructions.



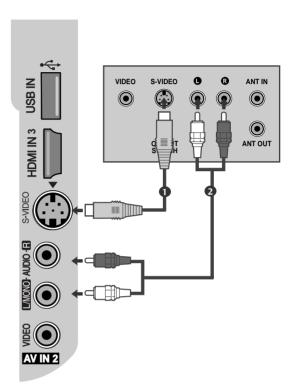
Component Input ports

To achieve 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	Pb	Pr

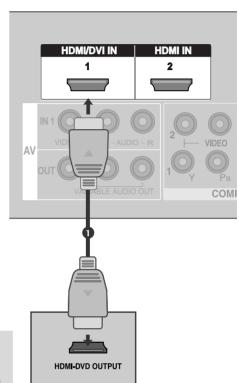
Connecting with a S-Video cable

- Connect the S-VIDEO output of the DVD to the S-VIDEO input on the TV.
- Connect the audio outputs of the DVD to the AUDIO input jacks on the TV.
- Turn on the DVD player, insert a DVD.
- Select AV2 input source using the INPUT button on the remote control.
- Refer to the DVD player's manual for operating instructions.



Connecting with a HDMI cable

- Connect the HDMI output of the DVD to the HDMI/DVI IN 1, HDMI IN 2 or HDMI IN 3 (except 32/37LG6***, 32/42LG8***) jack on the TV.
- Select HDMI1/DVI, HDMI2 or HDMI3(except 32/37LG6***, 32/42LG8***) input source using the INPUT button on the remote control.
- Refer to the DVD player's manual for operating instructions.



NOTE

- ► The TV can receive video and audio signals simultaneously when using a HDMI cable.
- ▶ If the DVD player supports Auto HDMI function, the output resolution of the source device will be automatically TV to 1280x720p.
- ▶ If the DVD player does not support Auto HDMI, you must TV the output resolution appropriately.

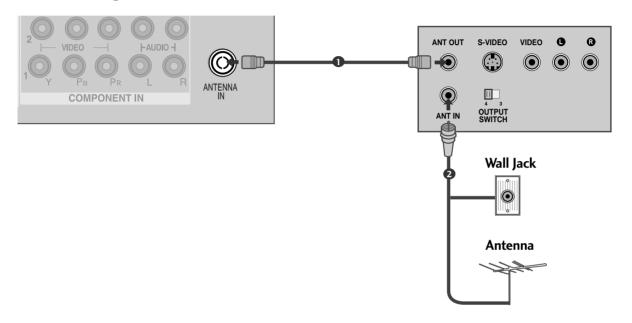
To get the best picture quality, adjust the output resolution of the source device to 1280x720p.

(42/47LG6***, 42/47/52LG7***, 50PG3***, 50/60PG7***, 32/42LG80F*: 1920x1080i/1080p)

VCR SETUP

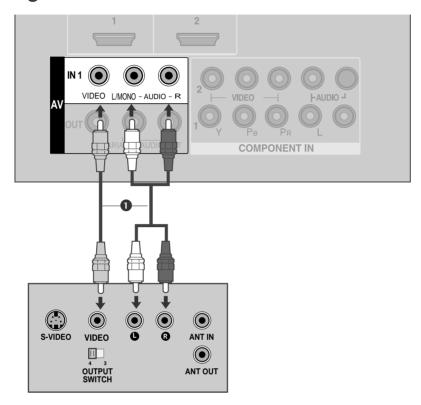
- To avoid picture noise (interference), allow adequate distance between the VCR and TV.
- Typically a frozen still picture from a VCR. If 4:3 picture format is used for an extended period the fixed images on the sides of the screen may remain visible.

Connecting with a RF cable



- Connect the ANT OUT socket of the VCR to the ANTENNA IN socket on the TV.
- Connect the antenna cable to the ANT IN socket of the VCR.
- Press the **PLAY** button on the VCR and match the appropriate programme between the TV and VCR for viewing.

Connecting with a RCA cable



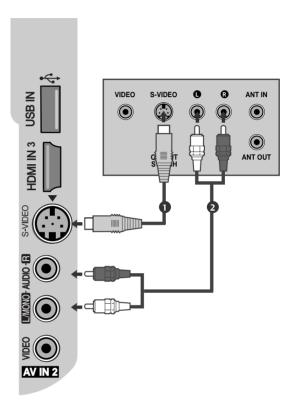
- Connect the **AUDIO/VIDEO** jacks between TV and VCR. Match the jack colours (Video = yellow, Audio Left = white, and Audio Right = red)
- 2 Insert a video tape into the VCR and press PLAY on the VCR. (Refer to the VCR owner's manual.)
- Select AV1 input source using the INPUT button on the remote control. If connected to AV IN 2, select AV2 input source.

NOTE

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

Connecting with a S-Video cable

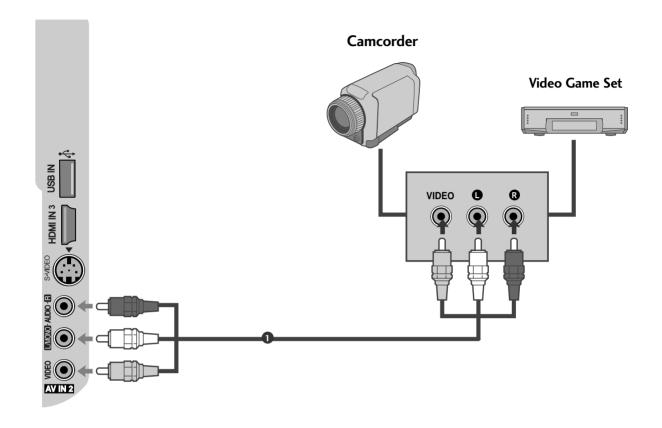
- Connect the S-VIDEO output of the VCR to the S-VIDEO input on the TV. The picture quality is improved; compared to normal composite (RCA cable) input.
- Connect the audio outputs of the VCR to the AUDIO input jacks on the TV.
- Insert a video tape into the VCR and press PLAY on the VCR. (Refer to the VCR owner's manual.)
- Select AV2 input source using the INPUT button on the remote control.



NOTE

▶ If both S-VIDEO and VIDEO sockets have been connected to the S-VHS VCR simultaneously, only the S-VIDEO can be received.

OTHER A/V SOURCE SETUP



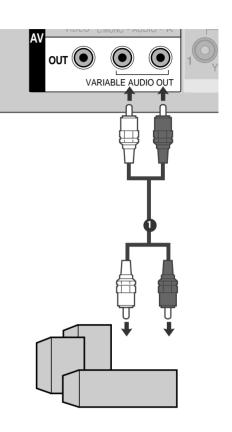
- Connect the **AUDIO/VIDEO** jacks between TV and external equipment. Match the jack colours. (Video = yellow, Audio Left = white, and Audio Right = red)
- 2 Select AV2 input source using the INPUT button on the remote control. If connected to AV IN 1, select AV1 input source.
- Operate the corresponding external equipment. Refer to external equipment operating guide.

EXTERNAL STEREO SETUP

Use to connected either an external amplifier, or add a sub-woofer to your surround sound system.

- Connect the input jack of the stereo amplifier to the VARIABLE AUDIO OUT jacks on the TV.
- Set up your speakers through your analog stereo amplifier, according to the instructions provided with the amplifier.

- When connecting with external audio equipments, such as amplifiers or speakers, please turn the TV speakers off.
 (▶ p.86)
- ► Select Variable Out in Audio menu to connect the VARIABLE AUDIO OUT jacks.(► p.87)

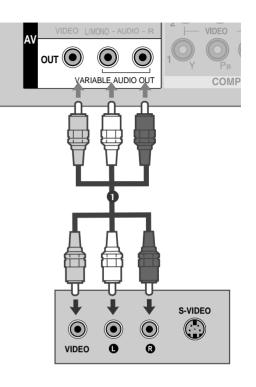


AV OUTPUT SETUP

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

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

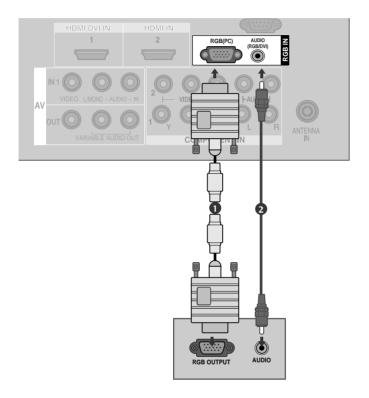
- Component, RGB, HDMI input sources cannot be used for AV out.
- ▶ We recommend to use the AV OUT jacks for VCR recording.



PC SETUP

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

Connecting with a D-sub 15 pin cable



- Connect the RGB output of the PC to the **RGB(PC)** jack on the TV.
- 2 Connect the PC audio output to the AUDIO(RGB/DVI) jack on the TV.
- Turn on the PC and the TV.
- 4 Select RGB PC input source using the INPUT button on the remote control.

- ➤ To enjoy vivid picture and sound, connect the PC to the TV.
- ➤ Avoid keeping a fixed image on the TV 's screen for prolonged periods of time. The fixed image may become permanently imprinted on the screen; use a screen saver when possible.
- ➤ Connect the PC to the RGB (PC) port of the TV; change the resolution output of PC accordingly.
- ➤ There may be interference relating to resolution, vertical pattern, contrast or brightness in PC mode. Change the PC mode to another resolution or change the refresh rate to another rate or adjust the brightness and contrast on the 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.

- ► The synchronization input waveform for Horizontal and Vertical frequencies are separate.
- ▶ If the resolution of PC is over SXGA, there will be no picture on the TV.(only HD Models)
- ➤ Connect the audio cable from the PC to the Audio input on the TV.(Audio cables are not included with the TV).
- ▶ If you use too long an RGB-PC cable, there may be interference on the screen. We recommend using under 5m of the cable. This provides the best picture quality.

Supported Display Resolution

-Plasma TV models —————

RGB-PC mode

Resolution	Horizontal Frequency(kHz)	Vertical Frequency(Hz)
640x350	31.468	70.09
720x400	31.469	70.09
640x480	31.469	59.94
800x600	37.879	60.317
1024x768	48.363	60.004
1280x768	47.776	59.87
1360x768	47.720	59.799
1366x768	47.7	60
1280x1024	63.668	59.895
1920x1080	66.587	59.934

HDMI-DTV mode

Resolution	Horizontal Frequency(kHz)	Vertical Frequency(Hz)
720x480	31.47 31.50	59.94 60.00
720x576	31.25	50.00
1280x720	44.96 45.00 37.50	59.94 60.00 50.00
1920x1080i	33.72 33.75 28.125	59.94 60.00 50.00
1920x1080p	67.432 67.5 56.250 27 33.75	59.94 60 50 24 30

LCD TV models —

RGB-PC mode

Resolution	Horizontal Frequency(kHz)	Vertical Frequency(Hz)
640x350	31.468	70.09
720x400	31.469	70.09
640x480	31.469	59.94
800x600	37.879	60.317
1024x768	48.363	60.004
1280x768	47.776	59.87
1360x768	47.720	59.799
1366x768	47.7	60
1280x1024	63.668	59.895
1920x1080	66.587	59.934

Only 42/47LG6***, 42/47/52LG7***, 32/42LG80F*

HDMI-DTV mode

Resolution	Horizontal Frequency(kHz)	Vertical Frequency(Hz)
720x480	31.47 31.50	59.94 60.00
720x576	31.25	50.00
1280x720	44.96 45.00 37.50	59.94 60.00 50.00
1920x1080i	33.72 33.75 28.125	59.94 60.00 50.00
1920x1080p	67.432 67.5 56.250 27 33.75	59.94 60 50 24 30

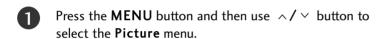
Screen Setup for PC mode

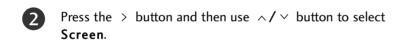
Auto Configure (RGB [PC] mode only)

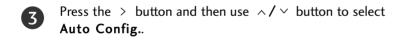
Automatically adjusts picture position and minimizes image instability. After adjustment, if the image is still not correct, your TV is functioning properly but needs further adjustment.

Auto configure

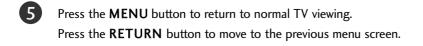
This function is for automatic adjustment of the screen position, clock, and phase. The displayed image will be unstable for a few seconds while the auto configuration is in progress.



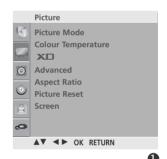


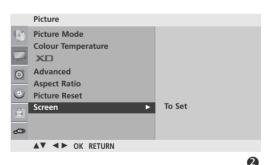


- 4 Press the > button to start Auto Config..
 - When Auto config. has finished, OK will be shown on screen.
 - If the position of the image is still not correct, try Auto adjustment again.
 - If picture needs to be adjusted again after Auto adjustment in RGB (PC), you can adjust the **Manual Config.**.













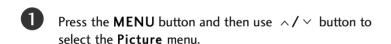
Manual Config. (RGB [PC] mode only) - Adjustment for screen Phase, Clock, Position

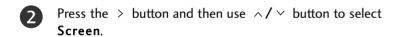
If the picture is not clear after auto adjustment and especially if characters are still trembling, adjust the picture phase manually.

It's not available to use Phase, Clock function in COMPONENT (480i/480p/576i/576p/720p/1080i/1080p), HDMI (480p/576p/720p/1080i/1080p).

Clock This function is to minimize any vertical bars or stripes visible on the screen background the horizontal screen size will also change.

Phase This function allows you to remove any horizontal noise and clear or sharpen the image of characters.





- Press the > button and then use \land / \lor button to select Manual Config..
- Press the > button and then use \land / \lor button to select Phase, Clock, H-Position or V-Position.
- Press the </>
 > button to make appropriate adjustments.
- Press the MENU button to return to normal TV viewing.

 Press the RETURN button to move to the previous menu screen.











EXTERNAL EQUIPMENT SETUP

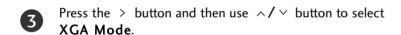
Selecting XGA mode (except 42PG6***)

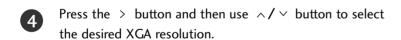
To view a normal picture, match the resolution of RGB mode and selection of XGA mode.

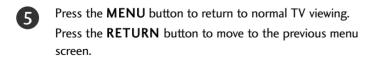
This function works in the following mode: RGB[PC] mode.

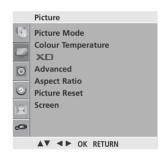


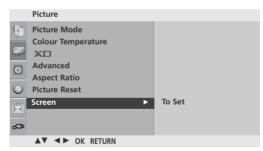
- Press the **MENU** button and then use \wedge/\vee button to select the **Picture** menu.
- Press the > button and then use \land / \lor button to select Screen.

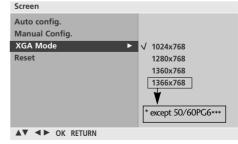










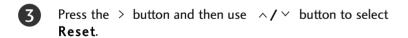


Initializing (Reset to original factory settings)

This function operates in current mode. To initialize the adjusted value

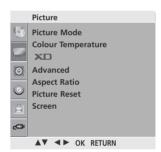


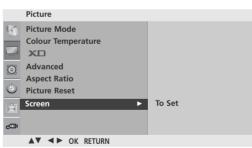
- Press the > button and then use \land / \lor button to select **Screen**.



- 4 Press the > button.
- Press the MENU button to return to normal TV viewing.

 Press the RETURN button to move to the previous menu screen.



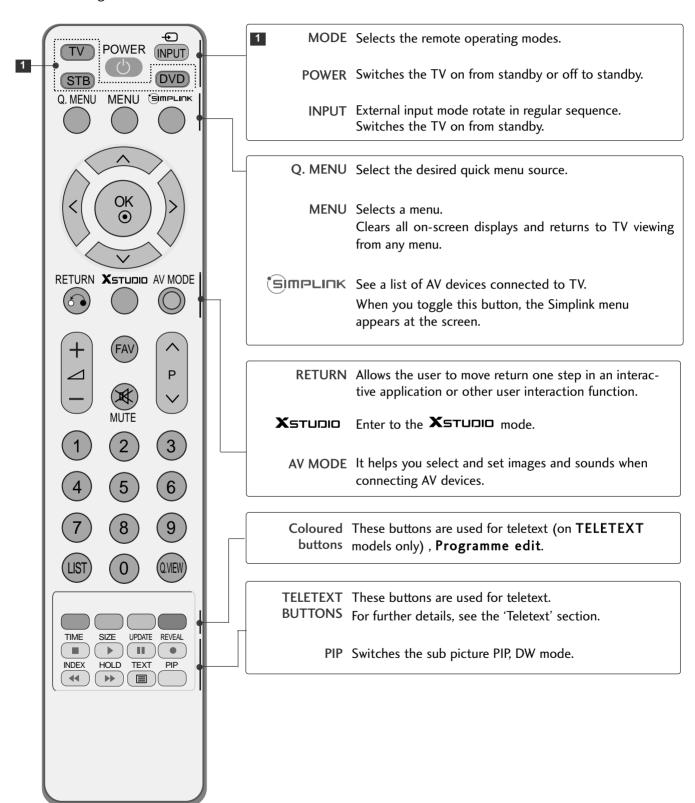


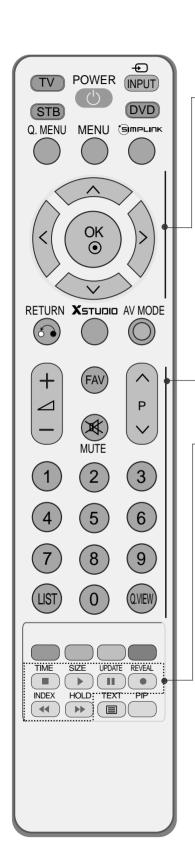




REMOTE CONTROL KEY FUNCTIONS

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





THUMBSTICK Allows you to navigate the on-screen menus and adjust (Up/Down/Left Right) the system settings to your preference.

OK Accepts your selection or displays the current mode.

VOLUME UP Adjusts the volume.
/DOWN

FAV Displays the selected favourite programme.

MUTE Switches the sound on or off.

Programme Selects a programme. UP/DOWN

0~9 number Selects a programme.

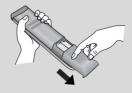
button Selects numbered items in a menu.

LIST Displays the programme list.

Q.VIEW Returns to the previously viewed programme.

VCR/DVD Controls some video cassette recorders or DVD players. control buttons Control connected AV devices by pressing the ^/ ✓ / < />
/ > , OK buttons and buttons for ▶, ■, I, ◄◄ and ▶▶.
(The ● button does not provide such functions.)

Installing Batteries



- Open the battery compartment cover on the back and install the batteries matching correct polarity (+with +,-with -).
- Install two 1.5V AAA batteries. Do not mix old or used batteries with new ones.
- Close cover.

TURNING ON THE TV

When your TV is turned on, you will be able to use its features.



Firstly, connect the power cord correctly.

At this stage, the TV switches to standby mode.

In standby mode to turn TV on, press the ₺/I, INPUT, P ▲ / ▼(or P ^ / `) button on the TV or press the POWER, TV, INPUT, P ^ / `, NUMBER(0~9) buttons on the remote control and the TV will switch on.

Installation Guide

If the OSD (On Screen Display) is displayed on the screen after turning on the TV, you can adjust the Language, Location, Auto Tuning.

Note:

- a. It will automatically disappear after approx. 40 seconds unless a button is pressed.
- b. "In-Store" mode is only for shop display and not for general customer use.
- c. "Home" mode is the optimal setting for home environments, and is the TV's default mode.
- d. "In-Store" mode is the optimal setting for store environments. If a user modifies image quality data, "In-Store" mode initializes the product to the image quality set by us after a certain period of time.
- e. The mode (Home, In-Store) can be changed by executing Factory Reset in the Option menu.

PROGRAMME SELECTION



Press the $P \land / \lor$ or NUMBER buttons to select a programme number.

VOLUME ADJUSTMENT

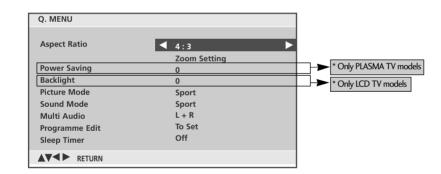
- Press the / +/- button to adjust the volume.
- 2 If you wish to switch the sound off, press the MUTE button.
- 3 You can cancel the Mute function by pressing the MUTE or +/-button.

QUICK MENU

Your TV's OSD (On Screen Display) may differ slightly from that 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.
 For Zoom Setting, select 14:9, Zoom1 and Zoom2 in Ratio Menu. After completing Zoom Setting, the display goes back to Q.Menu.
- Power Saving (only Plasma TV Models): Adjusts screen brightness to reduce the power consumption of the set.
- **Backlight** (only LCD TV Models):Adjusts screen brightness. It returns to the default settings brightness by changing mode source.
- Picture Mode: Selects your desired Picture Mode.
- **Sound Mode**: It is a feature to automatically set the sound combination which it deems the best for the images being watched. Selects your desired Sound Mode.
- Multi Audio: Selects the sound output.
- Programme Edit: Adjusts the stored programmes by delete, copy, move or skip.
- Sleep Timer: Selects the sleep timer.



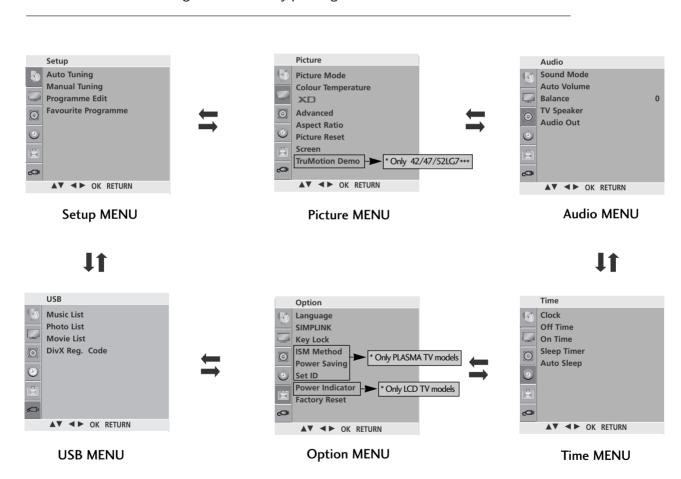
- Press the **Q.MENU** button and then \wedge/\vee button to display each menu.
- Press the < / > button to select your desired Source.
- 3 Press the Q.MENU button to return to normal TV viewing.



ON SCREEN MENUS SELECTION AND ADJUSTMENT

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

- Press the **MENU** button and then \wedge/\vee button to display each menu.
- Press the > button and then ^/ > button to select a menu item.
- Change the setting of an item in the sub or pull-down menu with < / > button. You can move to a higher level menu by pressing the **OK** or **MENU** button.



NOTE

- a. The OSD (On Screen Display) function enables you to adjust the screen status conveniently since it provides graphical presentation.
- b. In this manual, the OSD (On Screen Display) may be different from your TV's because it is just example to help the TV operation.
- c. In the teletext mode and USB mode, menus are not displayed.

AUTO PROGRAMME TUNING

All stations which can be received are stored by this method. It is recommended that you use Auto tuning during installation of this TV.

- Press the **MENU** button and then \wedge/\vee button to select the **Setup** menu.
- Press the > button and then ^/ > button to select **Auto Tuning**.
- **3** Press the \rightarrow button and then \wedge / \vee button to select **System**.
- Press the ^/ > button to select a TV system menu;
 BG: PAL B/G, SECAM B/G (Europe / East Europe / Asia /
 NewZealand / M.East / Africa / Australia)
 - I : PAL I/II (U.K. / Ireland / Hong Kong / South Africa)
 DK: PAL D/K, SECAM D/K (East Europe / China / Africa / CIS)
 M : (USA / Korea / Philippines)
- Press the \wedge/\vee button to select **Storage From**.
- Press the < / > button or NUMBER buttons to select the initial programme number. If you use NUMBER buttons, any number under 10 is entered with a numeric '0' in front of it, i.e. '0 5' for 5.
- **7** Press the \wedge / \vee button to select **Search**.
- 8 Press the > button to begin auto tuning. All receivable stations are stored.

To stop auto tuning, press the **RETURN** button.

When auto tuning is complete, the Programme edit menu appears on the screen. See the Programme edit section to edit the stored programme.

Press the MENU button to return to normal TV viewing.
Press the RETURN button to move to the previous menu screen.











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MANUAL PROGRAMME TUNING

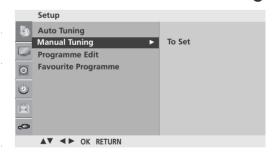
Manual programme lets you manually tune and arrange the stations in whatever order you desire.

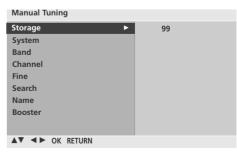
- Press the MENU button and then \wedge/\vee button to select the **Setup** menu.
- Press the > button and then \land / \lor button to select Manual Tuning.
- Press the \rightarrow button and then \wedge/\vee button to select **Storage**.
- Press the < / > button or NUMBER buttons to select the desired programme number (0 to 99). If you use NUMBER buttons, any number under 10 is entered with a numeric '0' in front of it, i.e. '0 5' for 5.
- Fress the ∧/ ∨ button to select System.
- Press the ^/ > button to select a TV system menu;
 BG: PAL B/G, SECAM B/G (Europe / East Europe / Asia /
 NewZealand / M.East / Africa / Australia)
 - I : PAL I/II (U.K. / Ireland / Hong Kong / South Africa)
 - DK: PAL D/K, SECAM D/K (East Europe / China / Africa / CIS)
 - M: (USA / Korea / Philippines)
- 7 Press the \wedge/\vee button to select **Band**.
- 8 Press the > button and then ^/ > button to select V/UHF or Cable.
- Press the ^/ > button to select Channel.
- You can select the desired programme number with the < / >
 button or NUMBER buttons. If possible, select the programme
 number directly with the number buttons. Any number under
 10 is entered with a numeric '0' in front of it, i.e. '0 5' for 5.
- 11 Press the \wedge/\vee button to select **Search**.
- Press the < / > button to commence searching. If a station is found the search will stop.
- 13 Press the OK button to store it.
- To store another station, repeat steps 3 to 13.
- Press the MENU button to return to normal TV viewing.

 Press the RETURN button to move to the previous menu screen.









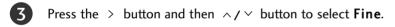


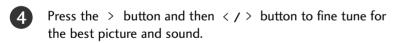
FINE TUNING

Normally fine tuning is only necessary if reception is poor.



- Press the **MENU** button and then \wedge/\vee button to select the **Setup** menu.
- Press the > button and then ^/ > button to select Manual Tuning.

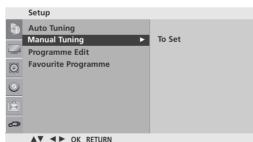


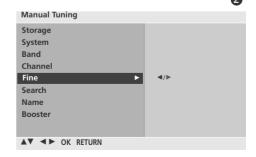


- Press the **OK** button to store it.
- Press the MENU button to return to normal TV viewing.

 Press the RETURN button to move to the previous menu screen.







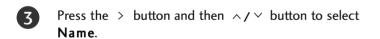


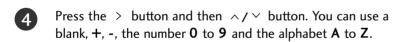
ASSIGNING A STATION NAME

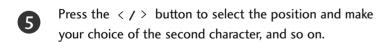
You can assign a station name up to five characters to each programme number.



- Press the MENU button and then \wedge/\vee button to select the **Setup** menu.
- Press the > button and then ^/ > button to select Manual Tuning.





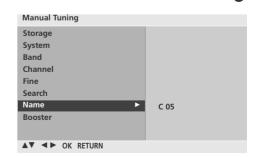


- 6 Press the **OK** button to store it.
- Press the **MENU** button to return to normal TV viewing.

 Press the **RETURN** button to move to the previous menu screen.







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BOOSTER

In some models, **Booster** is an optional function. Only a set with **Booster** can perform this function.

If reception is poor, select **Booster** to On. When the signal is strong, select "OFF".

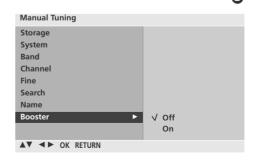


- Press the **MENU** button and then \wedge/\vee button to select the **SETUP** menu.
- Press the > button and then ^/ > button to select Manual Tuning.
- Press the > button and then use ^/ > button to select Booster.
- Press the > button and then use < / > button to select On or Off.
- Press the MENU button to return to normal TV viewing.

 Press the RETURN button to move to the previous menu screen.









PROGRAMME EDIT

This function enables you to delete or skip stored programmes. Also you can move some stations to other programme numbers or copy a blank station data into the selected programme number.

- Press the **MENU** button and then \wedge/\vee button to select the **Setup** menu.
- Press the > button and then ^/ > button to select Programme Edit.
- Press the > button to display the Programme edit menu.

■ Deleting a programme

- 1. Select a programme to be deleted with the $\wedge/\vee/</>$ button.
- 2.Press the RED button twice.

The selected programme is deleted, all the following programmes are shifted up one position.

■ Copying a programme

- 1. Select a programme to be copied with the $\wedge/\vee/</>$ button.
- 2.Press the GREEN button. All the following programmes are shifted down one position.

■ Moving a programme

- 1. Select a programme to be moved with the $\wedge/\vee/</>$ button.
- 2.Press the YELLOW button.
- 3. Move the programme to the desired programme number with the $\wedge/\vee/</>$ button.
- 4. Press the YELLOW button again to release this function.

■ Skipping a programme number

- 1. Select a programme number to be skipped with the \wedge/\vee / < / > button.
- 2. Press the BLUE button. The skipped programme turns to blue.
- 3. Press the BLUE button again to release the skipped programme.

When a programme number is skipped it means that you will be unable to select it using the \wedge/\vee button during normal TV viewing. If you wish to select the skipped programme, directly enter the programme number with the NUMBER buttons or select it in the programme edit or table menu.

Press the MENU button to return to normal TV viewing. Press the **RETURN** button to move to the previous menu screen.







2



FAVOURITE PROGRAMME

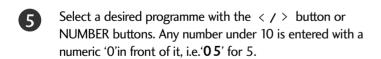
This function lets you select your favourite programmes directly.

Repeatedly press the FAV button to select stored favourite programmes.



- Press the **MENU** button and then \wedge/\vee button to select the **Setup** menu.
- Press the > button and then \land / \lor button to select Favourite Programme.
- Press the > button.

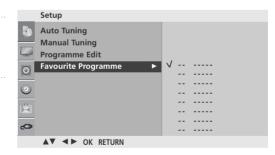




- To store another programme, repeat steps **4** to **5**. You can store up to 8 programmes.
- Press the MENU button to return to normal TV viewing.

 Press the RETURN button to move to the previous menu screen.







SELECTING THE PROGRAMME LIST

You can check which programmes are stored in the memory by displaying the programme list.

■ Displaying programme list

Press the LIST button to display the Programme list menu. The programme list appears on the screen.

One programme list contains ten programmes as shown.

NOTE

- a. You may find some blue programmes. They have been set up to be skipped by auto programming or in the programme edit mode.
- b. Some programmes with the channel number shown in the programme list indicate there is no station name assigned.

■ Selecting a programme in the programme list Select a programme with the ^/ ✓ / < / > button. Then proceed the OK button. The TV switches to the above.

Then press the **OK** button. The TV switches to the chosen programme number.

■ Paging through a programme list

There are 10 programme table pages in which contain 100 programmes. Pressing the $\land/\lor/</\gt$ button repeatedly turns the pages.

Press the **LIST** button to return to normal TV viewing.



Programme List						
0	С	03	l	5	ς	69
	BLN	_		6	_	
2	С	12		7	S	22
3	S	66		8	С	09
4	S	67		9	c	11
▼ ►	AV	OK				



This function operates only with devices with the SIMPLINK logo. Please check the SIMPLINK logo.

The product might not function properly when using it with other products with HDMI-CEC function.

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

If you do not require the SIMPLINK menu, select "Off".

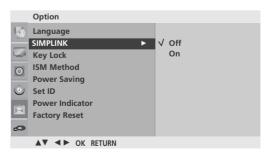
- Press the **MENU** button and then \wedge/\vee button to select the **Option** menu.
- Press the > button and then ^/ > button to select SIMPLINK.
- Press the > button and then \wedge / > button to select **On** or **Off**.
- Press the MENU button to return to normal TV viewing.

 Press the RETURN button to move to the previous menu screen.











SIMPLINK Functions

Disc playback

Control connected AV devices by pressing the $\land / \lor / < / \gt$, OK, \blacktriangleright , \blacksquare , I I, $\blacktriangleleft \blacktriangleleft$ and $\blacktriangleright \blacktriangleright$ buttons.

(The ● button does not provide such 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 the TV and operate it.

Power off all devices

When you switch off the TV, all connected devices are turned off.

Switch audio-out

Offers an easy way to switch audio-out.

Sync Power On

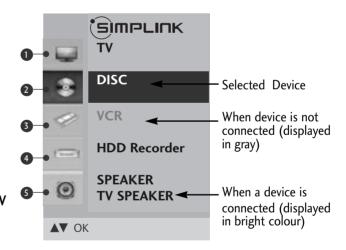
The television set will change automatically to turn on mode, after the Player with Simplink function start to reproduce through connection HDMI.

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

SIMPLINK Menu

Press the $\wedge/\vee/</>$ button and then OK button to select the desired SIMPLINK source.

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



NOTE

- ▶ Connect the HDMI/DVI IN or HDMI IN terminal of the TV to the rear terminal and Side terminal (HDMI terminal) of the SIMPLINK device with the HDMI cable.
- ▶ After connecting the HDMI terminal for the home theatre with SIMPLINK function using the above method, connect the VARIABLE AUDIO OUT terminal on the back of the TV to the VARIABLE AUDIO IN terminal on the back of the SIMPLINK device with the VARIABLE AUDIO OUT cable.
- ▶ When operating an external device with SIMPLINK, press the TV button from the MODE button on the remote control.
- ▶ When you switch the Input source using the INPUT button on the remote control, you can stop the operation of a device controlled by SIMPLINK.
- ▶ When you select or operate a media device with home theatre function, the speaker automatically switches to home theatre speaker (HT speaker).

KEY LOCK

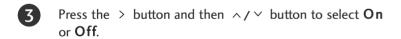
The TV can be set so that the remote control is needed to control it.

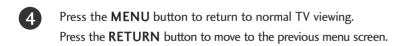
This feature can be used to prevent unauthorized viewing.

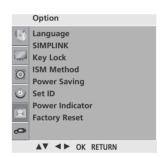
This TV is programmed to remember which option it was last set to even if you turn the TV off.

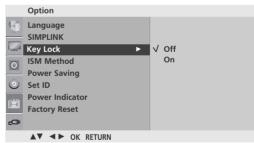


- Press the **MENU** button and then \wedge/\vee button to select the **Option** menu.
- Press the > button and then ^/ > button to select **Key** Lock.











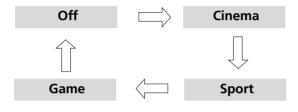
NOTE

- ▶ In **Key Lock** 'On', if the TV is turned off, press the ① / I, INPUT, P ▲ / ▼(or P ^ / ∨) button on the TV or POWER, INPUT, TV, P ^ / ∨ or NUMBER buttons on the remote control.
- ▶ With the **Key Lock On**, the display 'Key Lock On' appears on the screen if any button on the front panel is pressed while viewing the TV.

AV MODE

You can select the optimal images and sounds when connecting AV devices to external input.





- 0
- Press the **AV MODE** button repeatedly to select the desired source.
- If you select Cinema Mode in AV mode, Cinema mode will be selected both for Picture Mode and Sound Mode in PICTURE menu and AUDIO menu respectively.
- If you select "Off" in AV mode, the picture and image which you initially set will be selected.
- Press the **RETURN** button to return to normal TV viewing.

TO USE THE USB DEVICE

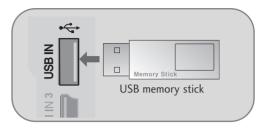
When connecting the USB device

When you connect a USB device, this screen is displayed, automatically. In USB device, you can not add a new folder or delete the existing folder.

- Connect the USB device to the **USB IN** jacks on the side of TV.
- Press the XSTUDIO button.
- Press the </>
 / > button to select the desired item.
- 4 Press the **OK** button.



Manufactured under license from Dolby Laboratories. "Dolby "and the double-D symbol are trademarks of Dolby Laboratories.







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In USB mode, P ▲ / ▼(or P ^ / ∨), ∠ +/- buttons on the TV are used to navigate (up/down/left/right).

Precautions when using the USB device

- ▶ Only a USB storage device is recognizable. Digital camera and mobile phone are not supported.
- ▶ If the USB storage device is connected through a USB hub, the device is not recognizable.
- ▶ A USB storage device using an automatic recognition programme may not be recognized.
- ▶ A USB storage device which uses its own driver may not be recognized.
- ▶ In case of a card reader, up to one memory cards are concurrently recognizable.
- ▶ The recognition speed of a USB storage device may depend on each device.
- ▶ Please do not turn off the TV or unplug the USB device when the connected USB storage device is working. When such device is suddenly separated or unplugged, the stored files or the USB storage device may be damaged.
- ▶ Please do not connect the USB storage device which was artificially maneuvered on the PC. The device may cause the product to malfunction or fail to be played. Never forget to use only a USB storage device which has normal music files or image files.
- ▶ Please use only a USB storage device which was formatted as a FAT32 file system provided with the Windows operating system. In case of a storage device formatted as a different utility programme which is not supported by Windows, it may not be recognized.
- ▶ Please connect power to a USB storage device which requires an external power supply. If not, the device may not be recognized.
- ▶ Please connect a USB storage device with cable is offered by USB maker. If connected with cable is not offered by USB maker or an excessively long cable, the device may not be recognized.
- ▶ Some USB storage devices may not be supported or operated smoothly.
- ▶ If the name of a folder or file is too long, it will not be displayed or recognized.
- ▶ File alignment method is based on storage order in USB storage device.
- ▶ Please backup the important file because a data of USB device may be damaged. Data management is consumer's responsibility and in consequence the manufactures does not cover the product bearing data damage.
- ▶ If the quantity of folders and files is over 1,000, it will not be displayed or recognized about exceeded files and folders.
- ▶ It is supported for only primary partition. If there is an extended partition, it is not displayed or recognized.

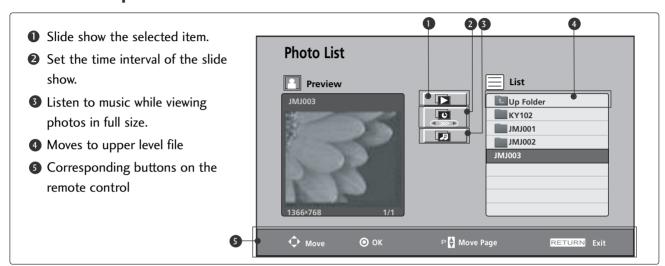
TO USE THE USB DEVICE

PHOTO LIST

It is available to playback only the photo file(*.jpg) in the USB device.

The On Screen Display may be different from your set. Images are an example to assist with the TV operation.

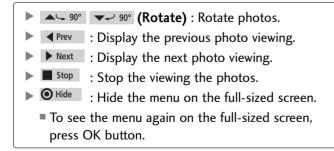
Screen Components



Set up the menu in Full-Sized Screen

You can change the settings to display photos stored on a USB device, on a full-sized screen. Detailed operations are available on full-sized photo view screen.

- Use the ^/ > button to select the desired photos.
- Press the **OK** or > button.
- The selected photo is displayed in full size and show up the menu.



- Press **RETURN** button to return to TV viewing or press **X**STUDIO button to return to the X-STUDIO menu.
 - If JPEG Viewing is operated, it should be pressed the **X**STUDIO button after pressing the STOP button.



The aspect ratio of a photo may change the size of the photo displayed on the screen in full size.

- * Viewing the Slide show
- Use the \wedge/\vee button to select the desired photos.
- 2 Press the < button to select
- Press the **OK** button.
 - ► **Stop** : Stop the viewing the slide show.
 - - To see the menu again on the full-sized screen, press OK button.
- 4 Press the < button to select
- Use < / > button to control the time interval of the slide show.
- 6 Press the **OK** button to store it.
- 7 Press the < button to select
- Press the **OK** button to listen to music(BGM) while viewing photos in full size.

Set the music device and album in Option.

- You should memorize FAV list to operate this function in MUSIC LIST.
- Press **RETURN** button to return to TV viewing or press **X**5TUDIO button to return to the X-STUDIO menu.
 - If Slideshow/BMG function is operated, it should be pressed the XSTUDID button after pressing the STOP button.









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NOTE

- ▶ If it is Progressive JPEG format, some photos may be not decoded.
- ▶ If you do not press any button for 4 hours during the Slide show and BGM(Back Ground Music), it will be stopped.
- ▶ If the width of resolution is over 4800, it is not supported.
- ▶ When loading, some buttons may not work.

TO USE THE USB DEVICE

MUSIC LIST

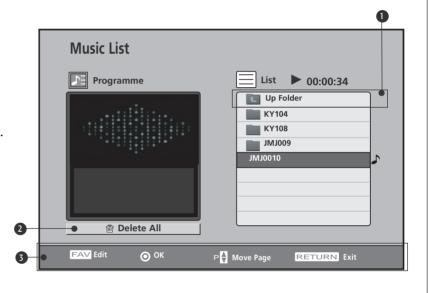
Purchased music files(*.MP3) may contain copyright restrictions. Playback of these files may not be supported by this model.

Music file on your USB device can be played by this unit.

The On Screen Display may be different from your set. Images are an example to assist with the TV operation.

Screen Components

- Moves to upper level file
- Delete All : Delete all music in music list.
 - It is not possible to delete only one music in music list.
- Corresponding buttons on the remote control





- a. If you want to listen to music, use the ∧/∨ button to select music.
- b. Press the **OK** button to play the music.
- c. All music in selected folder is played, repeatedly.

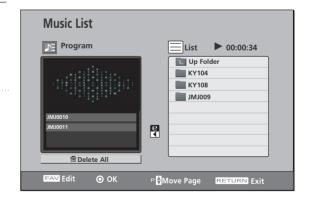


- a. If you want to listen to several music in sequence, use the ∧/ ∨ button to select music.
- b. Press FAV button and then use **OK** button to make music list.
 - When FAV button is pressed, is displayed and then it is possible to edit music list.
- c. To make music list, repeat steps a to b.
- d. Press < button and then use **OK** button to play music in music list.
- e. Up to 30 files are stored.



Press **RETURN** button to return to TV viewing or press **XSTUDIO** button to return to the X-STUDIO menu.

■ If MP3 playing is operated, it should be pressed the **X**STUDIO button after pressing the STOP button.



- If you don't press any button for a while during the playing, the play information box (as shown in the below) will float as a screen saver.
- The 'Screen Saver'? Screen saver is to prevent screen pixel damage due to an fixed image remaining on the screen for a extended period of time.
- If you press **OK**, ■, **RETURN** buttons, screen saver is stopped.



NOTE

- ▶ When music is playing, ♪ is displayed in Back of the music title.
- A music downloaded from a paid service with copyright protection does not start but displays inappropriate information in playtime.
- ► The ► buttons on the remote control are not available in this mode.
- ▶ Customer should note that permission is required in order to download MP3 files form the internet, Our company has no right to quarantee such permission, Permission should always be sought from the copyright owner.
- ▶ When loading, some buttons may not work.
- ▶ MP3 files are supported as follows.

Sampling Frequency: 32 ~ 48kHz

Bit rate: 32 ~ 320kbps

TO USE THE USB DEVICE

MOVIE LIST

The movie list is activated once USB is detected. It is used when playing movie files on TV.

Displays the movies in the USB folder and supports Play.

Allows playback of all movies in the folder and user desired files.

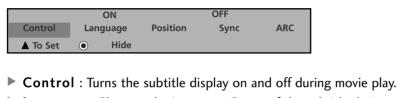
Editing such as delete and add is not allowed.

It is a movie list that displays folder information and Divx file.

Screen Components



- Use the $\wedge \vee$ button to select the desired movie titles.
- Press the **OK** button to play the movie and show up the menu.



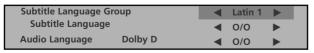
- Language: Changes the Language Group of the subtitle during movie play.
- **Position**: Changes the position of the subtitle either up or down during movie play.
- ▶ **Sync**: Adjusts the time synchronisation of the subtitle from -5 secs ~ +5 secs by steps of 1 secs during movie play.
- ► ARC : Adjusts the picture formats ; 4:3 or 16:9
 - To see the menu again on the full-sized screen, press OK button.
- Press **RETURN** button to return to TV viewing or press **X**5TUDIO button to return to the X-STUDIO menu.
 - If movie playing is operated, it should be pressed the XSTUDID button after pressing the STOP button.

NOTE

- If you do not press any button for 10 minutes during Pause state, it will be stopped.
- ▶ When loading, some buttons may not work.

DivX Audio Language & Subtitle Language

▶ When DivX is playing, if you press the **OK** button and then select language, this message is displayed.



Press the $\wedge/\vee/</>$ button to select the desired option.

Supports up to Mpeg, Mp3, PCM, Dolby D file.

TO USE THE USB DEVICE

DIVX REGISTRATION CODE

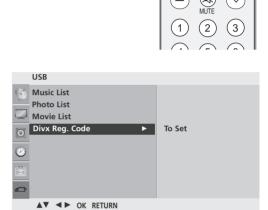
Confirm the DivX registration code number of the TV. Using the registration number, movies can be rented or purchased at www.divx.com/vod.

With a DivX registration code from other TV, playback of rented or purchased DivX file is not allowed. (Only DivX files matched with the registration code of the purchased TV are playable.)

- Press the **MENU** button and then use \wedge/\vee button to select the **USB** menu.
- Press the > button and then use ^/ > button to select DivX Reg. Code.
- Press the > button to start DivX Reg. Code.

DivX Registration Code : xxxxxxxx

Press the **RETURN** button to return to normal TV viewing.



(STB)

(DVD)





- Official DivX® Certified Product
- "Plays all versions of $DivX^{\circledR}$ video (including $DivX^{\circledR}$ 6) with standard playback of $DivX^{\circledR}$ media files"
- "DivX Certified products: "DivX, DivX Certified, and associated logos are trademarks of DivX. Inc. and are used under license."

NOTE

▶ Movie files are supported as follows.

Resolution: under 720x480(720x576) WxH pixels.

Frame rate: under 30 frames/sec

▶ Video Codec : MP 43, DIVX_3_11, DIVX_4_12, DIVX_5_0, XVID, MP4S, RMP4, MP4V, _3IVX.

PICTURE CONTROL

WATCHING PIP(PICTURE-IN-PICTURE)

PIP lets you view 2 different inputs (sources) on your TV screen at the same time.

One source will be large, and the other source will show a smaller inset image.

PIP function is available in the Component, RGB, HDMI mode.

(For FHD models, it can support TV, AV1, AV2 mode.(except 32/42LG80F*))

PIP PIP Input TV PIP PR C 07 7 PIP Size Small PIP Position RETURN

Watching PIP/Double Window



PIP

Programme Selection for Sub Picture

Press the **PIP** button and then press the $\wedge/\vee/</>$ button to select a programme for the sub picture. The selected programme number is displayed just below the programme number of main picture.

Input Source Selection for Sub Picture

Sub Picture Size Adjustment (PIP mode only)

Press the **PIP** button and then press the $\wedge/\vee/</> button to adjust the sub picture size.$

Moving the Sub Picture (PIP mode only)

Press the PIP button and then press the $\wedge/\vee/</>$ button to adjust the sub picture position.

PICTURE CONTROL

PICTURE SIZE (ASPECT RATIO) CONTROL

You can watch the screen in various picture formats; 16:9, Original, 4:3, 14:9, Zoom1/2 and Just Scan.

Just Scan works in the following mode: Component (720p/1080i/1080p), HDMI (720p/1080i/1080p)

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.

You can adjust the enlarge proportion using $\wedge \vee$ button.

This function works in the following signal.



You can adjust **Aspect Ratio** in the **Picture** menu.

• 16:9

The following selection will allow you to adjust the picture horizontally, in linear proportion, to fill the entire screen (useful for viewing 4:3 formatted DVDs).



• Original

When your TV receives a wide screen signal it will automatically change to the picture format to be broadcast.



• 4:3

The following selection will allow you to view a picture with an original 4:3 aspect ration, grey bars will appear on both the left and right hand of the screen.

TV POWER (INPUT)

(XX)

(DVD)

(STB)



• 14:9

You can view a picture format of 14:9 or a general TV programme in the 14:9 mode. The 14:9 screen is viewed in the same way as in 4:3, but is magnified to the left and right.



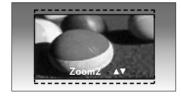
Zoom1

The following selection will allow you to view the picture without any alteration, while filling the entire screen. However, the top and bottom of the picture will be cropped.



• Zoom2

Choose Zoom 2 when you wish the picture to be altered, both horizontally extended and vertically cropped. The picture adopting a compromise between alteration and screen converage.



• Just Scan

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

NOTE

- ▶ You can only select 4:3, 16:9 (Wide) in Component, HDMI, RGB(PC) mode.
- ▶ In HDMI/Component (over 720p) mode, Just Scan is available.

PICTURE CONTROL

PRESET PICTURE SETTINGS

Picture Mode-Preset

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

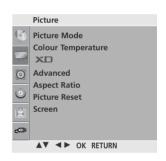
Intelligent Sensor(Only LCD TV models), Vivid, Standard, Cinema, Sport and Game are programmed for optimum picture reproduction at the factory and cannot be changed.

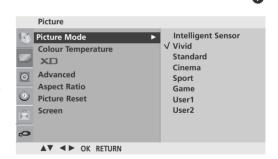
When the Intelligent Sensor function is on, the most suitable picture is automatically adjusted according to the surrounding conditions.(Only LCD TV models)

- Press the **MENU** button and then \wedge/\vee button to select the **Picture** menu.
- Press the > button and then ^/ > button to select Picture Mode.
- Press the **MENU** button to return to normal TV viewing.

 Press the **RETURN** button to move to the previous menu screen.







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Auto Colour Tone Control(Cool/Medium/Warm)

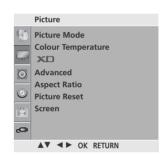
To initialize values (reset to default settings), select the Cool option.

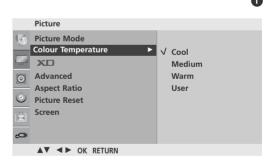
Choose one of three automatic colour adjustments. Set to warm to enhance hotter colours such as red, or set to cool to see less intense colours with more blue.

This menu is activated after selecting "User1" or "User2" in the Picture Mode.

- Press the **MENU** button and then \wedge/\vee button to select the **Picture** menu.
- Press the > button and then ^/ > button to select Colour Temperature.
- Press the > button and then \land / \lor button to select either Cool, Medium, Warm or User.
- 4 Press the MENU button to return to normal TV viewing.
 Press the RETURN button to move to the previous menu screen.









PICTURE CONTROL

MANUAL PICTURE ADJUSTMENT

Picture Mode-User Option

Backlight To control the brightness of the screen, adjust

the brightness of LCD panel.

Contrast Adjusts the difference between light and dark

levels in the picture.

Brightness Increases or decreases the amount of white in

the picture.

Colour Adjusts intensity of all colours.

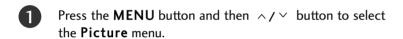
Sharpness Adjusts the level of crispness in the edges

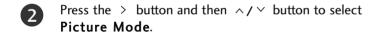
between the light and dark areas of the picture.

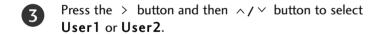
The lower the level, the softer the image.

Tint Adjusts the balance between red and green

levels.







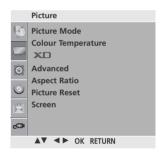
- Press the < / > button to make appropriate adjustments.
- Press the **MENU** button to return to normal TV viewing.

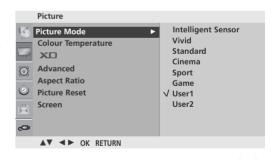
 Press the **RETURN** button to move to the previous menu screen.

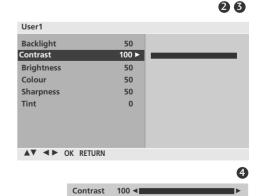


➤ You cannot adjust colour, sharpness and tint in the RGB-PC mode.









6

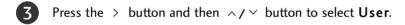
Colour Tone - User Option

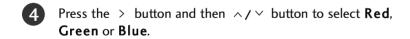
To adjust red, green, blue to any colour temperature you prefer.

This menu is activated after selecting "User1" or "User2" in the Picture Mode.



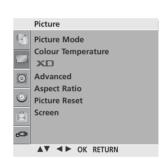
- Press the **MENU** button and then \wedge/\vee button to select the **Picture** menu.
- Press the > button and then ^/ > button to select Colour Temperature.

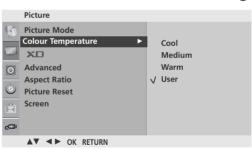


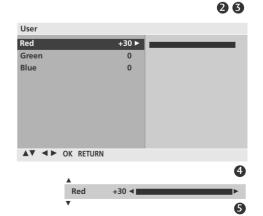


- **5** Press the < / > button to make appropriate adjustments.
- Press the **MENU** button to return to normal TV viewing.

 Press the **RETURN** button to move to the previous menu screen.





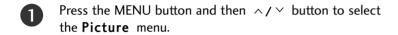


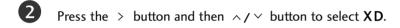
PICTURE CONTROL

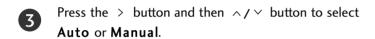
- PICTURE IMPROVEMENT TECHNOLOGY

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

It is not possible to use this function in RGB-PC mode.







Press the **MENU** button to return to normal TV viewing.

Press the **RETURN** button to move to the previous menu screen.

* Manual Selection

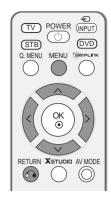
This menu is activated after selecting the **User1** or **User2** of **Picture Mode**.

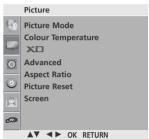
- Press the > button and then ^/ > button to select XD Contrast, XD Colour or XD NR.
- Press the > button and then ^/ > button to select **Off**, **Low** or **High**.

Select Off, Low, High, Adaptive. (only XD NR)

- Press the **MENU** button to return to normal TV viewing.

 Press the **RETURN** button to move to the previous menu screen.
 - XD Contrast : Optimises the contract automatically according to the brightness of the reflection.
 - XD Colour : Adjusts the colour of the reflection automatically to reproduce as close as possible to natural colours.
 - XD NR: Removes interference up to the point where it does not damage the original picture.





Picture

Picture Mode
Colour Temperature

Auto
Advanced
Aspect Ratio
Picture Reset
Screen

OR RETURN



0 2

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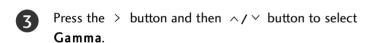
ADVANCED - GAMMA

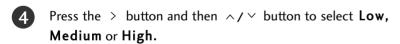
High gamma values display whitish images and low gamma values display high contrast images.

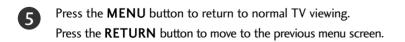
It is not possible to use this function in RGB-PC mode.

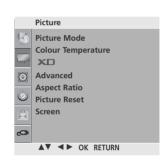


- 1 Press the MENU button and then \wedge/\vee button to select the Picture menu.
- Press the > button and then ^/ > button to select Advanced.













PICTURE CONTROL

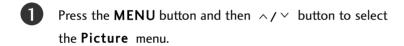
ADVANCED - FILM MODE/REAL CINEMA

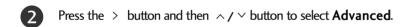
To set the TV up for the best picture quality for viewing films.

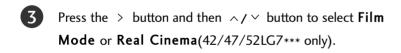
This feature operates only in Analog TV, AV, S-video and Component 480i/576i mode.(Film Mode only)

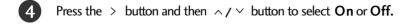
In HDMI mode(1080p 24Hz). (42/47/52LG7*** only)

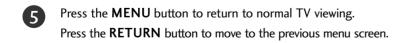
Screen	TruMotion	Real Cinema
5:5 Pull-Down	Off	On



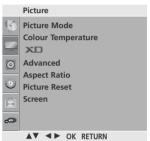






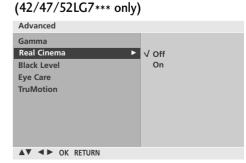












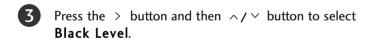
ADVANCED - BLACK(DARKNESS) LEVEL

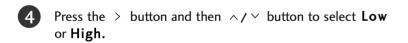
When you view a film this function adjust the TV to best picture quality. Adjusting the contrast and the brightness of the screen using the black level of the screen.

This function works in the following mode: RF(NTSC-M), AV, S-Video(NTSC-M, NTSC 4.43), COMPONENT or HDMI.



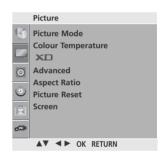
- Press the **MENU** button and then \wedge/\vee button to select the **Picture** menu.
- Press the > button and then ^/ > button to select Advanced.





- Low: The reflection of the screen gets darker.
- **High**: The reflection of the screen gets brighter.
- Press the MENU button to return to normal TV viewing.

 Press the RETURN button to move to the previous menu screen.







PICTURE CONTROL

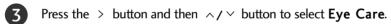
EYE CARE (ONLY LCD TV MODELS)

It helps you adjust brightness when the screen is too bright to prevent dazzling.

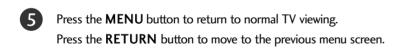
When selecting Picture Mode(Standard, Sport, Game, User1 and User2), you can operate this function.

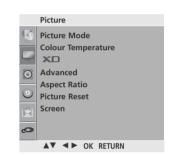


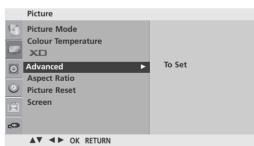
- Press the **MENU** button and then \wedge/\vee button to select the **Picture** menu.
- Press the > button and then \land / \lor button to select **Advanced**.













ADVANCED - TRUMOTION

(42/47/52LG7*** only)

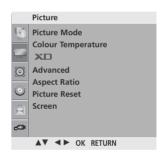
It is used for the best picture quality without any motion blur or judder when you enter a quick image or Film Source.

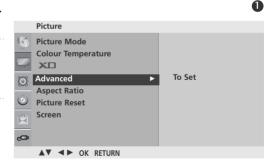
This feature is disable in RGB-PC, HDMI-PC mode.



- Press the **MENU** button and then \wedge/\vee button to select the **Picture** menu.
- Press the > button and then ∧/∨ button to select **Advanced**.
- Press the \rightarrow button and then \land / \lor button to select **TruMotion**.
- 4 Press the < / > button to select **Off, Low** or **High**.
 - Low: Provides smooth picture movement. Use this setting for standard use.
 - **High**: Provides smoother picture movement.
 - Off: Use this setting when "High" and "Low" setting result in noise.
- Press the MENU button to return to normal TV viewing.

 Press the RETURN button to move to the previous menu screen.
- If you enable "TruMotion", noise may appear on the screen.
- If this occurs, set "TruMotion" to "Off".







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PICTURE CONTROL

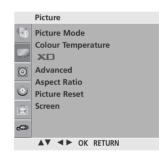
PICTURE RESET



Returns to the default factory setting for Picture Mode, Colour Temperature, XD, Advanced, Aspect Ratio.

- Press the **MENU** button and then \wedge/\vee button to select the **Picture** menu.
- Press the > button and then ^/ > button to select Picture Reset.
- **3** Press the > button to initialize the adjusted value.
- Press the MENU button to return to normal TV viewing.

 Press the RETURN button to move to the previous menu screen.





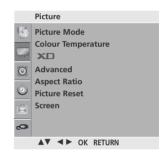
TRUMOTION DEMO (42/47/52LG7*** only)

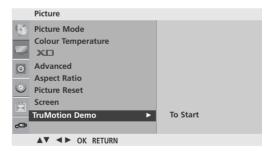
Use it to see the difference between TruMotion Demo on and TruMotion Demo off.

It's not available to use this function in RGB/HDMI-PC mode.



- Press the > button and then \land / \lor button to select **TruMotion Demo.**
- Press the > button to begin **TruMotion Demo**.
- To stop **TruMotion Demo**, press the **MENU** button.





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• TruMotion Demo



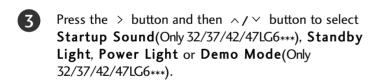
PICTURE CONTROL

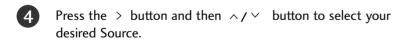
POWER INDICATOR (ONLY LCD TV MODELS)

It helps you adjust the brightness of moving LED and sound when power is turned on.



- 1 Press the MENU button and then \wedge/\vee button to select the **Option** menu.
- Press the > button and then ^/ > button to select Power Indicator.





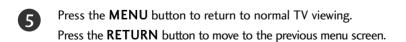






IMAGE STICKING MINIMIZATION(ISM)METHOD (ONLY PLASMA TV MODELS)

A frozen or still picture from a PC/Video game displayed on the screen for prolonged periods will result in a ghost image remaining even when you change the image. Avoid allowing a fixed image to remain on the screen for prolonged periods.

White Wash

White wash removes permanent images from the screen. Note: An excessive permanent image may be impossible to clear entirely with White Wash.

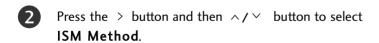
Orbiter

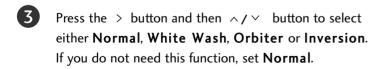
Orbiter may help prevent ghost images. However, it is best not to allow any fixed image to remain on the screen. To avoid a permanent image on the screen, the screen will move every 2 minutes.

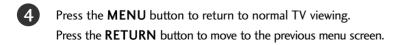
Inversion

This function inverts the panel colour of the screen. The panel colour is automatically inverted every 30 minutes.















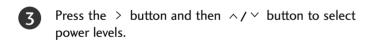
PICTURE CONTROL

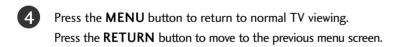
POWER SAVING PICTURE MODE (ONLY PLASMA TV MODELS)

This function allows you to reduce the power consumption of the TV.



- Press the **MENU** button and then \wedge/\vee button to select the **Option** menu.
- Press the > button and then ^/ > button to select Power Saving.











FACTORY RESET

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

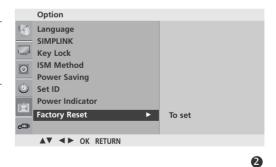
This function deletes all TV programmes.



- Press the **MENU** button and then \wedge/\vee button to select the **Option** menu.
- Press the > button and then ^/ > button to select Factory Reset.
- Press the > button and then < / > button to select YES or NO.
- Press the MENU button to return to normal TV viewing.

 Press the RETURN button to move to the previous menu screen.









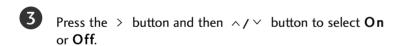
SOUND & LANGUAGE CONTROL

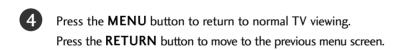
AUTO VOLUME LEVELER

Auto Volume automatically remains on the same level of volume if you change programmes.



- Press the MENU button and then \wedge/\vee button to select the Audio menu.
- Press the > button and then ^/ > button to select Auto Volume.









PRESET SOUND SETTINGS-SOUND MODE

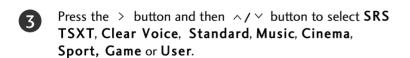
You can select your preferred sound setting; SRS TSXT, Clear Voice, Standard, Music, Cinema, Sport or Game and you can also adjust the frequency of the equalizer.

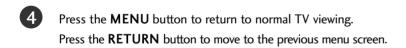
Sound Mode lets you enjoy the best sound without any Special adjustment as the TV sets the appropriate sound options based on the programme content.

SRS TSXT, Clear Voice, Standard, Music, Cinema, Sport and Game are preset for optimum sound quality at the factory and are not adjustable.

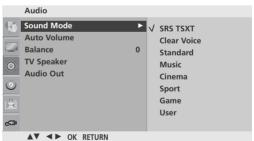


- Press the **MENU** button and then \wedge/\vee button to select the **Audio** menu.
- Press the > button and then \land / \lor button to select **Sound Mode**.











- ► SRS(♠)° is a trademark of SRS Labs, Inc.
- ▶ TruSurround XT technology is incorporated under license from SRS Labs, Inc.

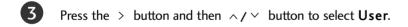
SOUND & LANGUAGE CONTROL

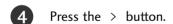
SOUND SETTING ADJUSTMENT -USER MODE

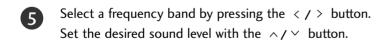
Adjusting the audio equalizer.

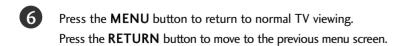


- Press the **MENU** button and then \wedge/\vee button to select the **Audio** menu.
- Press the > button and then ^/ > button to select Sound Mode.

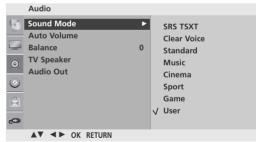




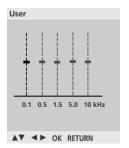








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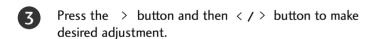


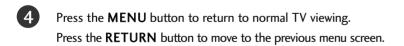
BALANCE

You can adjust the sound balance of the speakers to the preferred levels.

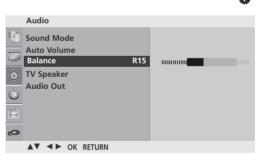


- Press the **MENU** button and then \wedge/\vee button to select the **Audio** menu.
- Press the > button and then \land / \lor button to select **Balance**.









SOUND & LANGUAGE CONTROL

TV SPEAKERS ON/OFF SETUP

You can adjust the internal speaker status.

In TV, AV, COMPONENT, RGB[PC] and HDMI mode, internal speaker audio can be operational even though there is no video signal.

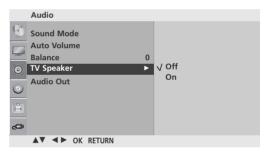
If you wish to use an external hi-fi system, turn off the TV internal speakers.

- Press the **MENU** button and then \wedge/\vee button to select the **Audio** menu.
- Press the > button and then ^/ > button to select TV Speaker.
- Press the > button and then ^/ > button to select On or Off.
- Press the **MENU** button to return to normal TV viewing.

 Press the **RETURN** button to move to the previous menu screen.







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SELECTING AUDIO OUT

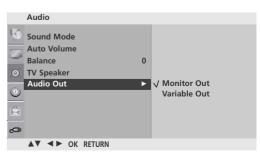
Select Monitor Out or Variable out to connect the audio outputs.

- Press the **MENU** button and then \wedge/\vee button to select the **Audio** menu.
- Press the > button and then ^/ > button to select Audio Out.
- Press the > button and then ^/ > button to select

 Monitor Out or Variable out.
- Press the MENU button to return to normal TV viewing.

 Press the RETURN button to move to the previous menu screen.





SLIDING MODE(ONLY 42LG8***)

Superior quality of sound can be appreciated when used a speaker by the sliding mode function

- Press the **MENU** button and then \wedge/\vee button to select the **Audio** menu.
- Press the > button and then ^/ > button to select Sliding Mode.
- Press the > button and then \wedge/\vee button to select **Open** or **Auto**.
- Press the **MENU** button to return to normal TV viewing.

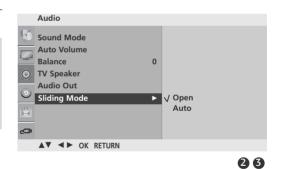
 Press the **RETURN** button to move to the previous menu screen.

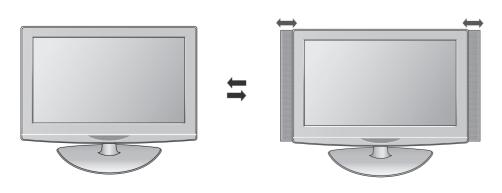


▶ Speaker and related parts of the television can be damaged when the speaker is not put on action by a remote controller or control keys.









SOUND & LANGUAGE CONTROL

1/11

Stereo/Dual Reception

When a programme is selected, the sound information for the station appears with the programme number and station name.

- Press the Q.MENU button and then \wedge/\vee button to select the Multi Audio menu.
- Press the </>
 </>
 / > button to select the sound output.

Broadcast	On Screen Display
Mono	MONO
Stereo	STEREO
Dual	DUAL I, DUAL II, DUAL I+II

■ Mono sound selection

If the stereo signal is weak in stereo reception, you can switch to mono. In mono reception, the clarity of sound is improved. To switch back to stereo.

■ Language selection for dual language broadcast

If a programme can be received in two languages (dual language), you can switch to DUAL I, DUAL II or DUAL I+II.

DUAL I Sends the primary broadcast language to the loudspeakers.

DUAL II Sends the secondary broadcast language to the loudspeakers.

DUAL I+II Sends a separate language to each loudspeaker.

NICAM Reception

If the TV is equipped with a receiver for NICAM reception, high quality NICAM (Near Instantaneous Companding Audio Multiplex) digital sound can be received.

Sound output can be selected according to the type of broadcast received.

- When NICAM mono is received, you can select NICAM MONO or FM MONO.
- When **NICAM stereo** is received, you can select **NICAM STEREO** or **FM MONO**. If the stereo signal is weak, switch to **FM MONO**.
- When NICAM dual is received, you can select NICAM DUAL I, NICAM DUAL II or NICAM DUAL I+II or FM MONO.

Speaker Sound Output Selection

In AV, Component, RGB and HDMI mode, you can select output sound for the left and right loud-speakers.

Select the sound output.

L+R: Audio signal from audio L input is sent to the left loudspeaker and audio signal from audio R input is sent to the right loudspeaker.

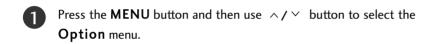
L+L: Audio signal from audio L input is sent to left and right loudspeakers.

R+R: Audio signal from audio R input is sent to left and right loudspeakers.

SOUND & LANGUAGE CONTROL

ON-SCREEN MENU LANGUAGE SELECTION

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





- Press the > button and then use $\land / \lor / \lt / \gt$ button to select your desired language.
- 4 Press the OK button
- Press the **MENU** button to return to normal TV viewing.

 Press the **RETURN** button to move to the previous menu screen.



TIME SETTING

CLOCK SETUP

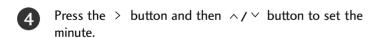
You must set the time correctly before using on/off timer function.

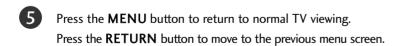
If current time setting is erased by a power failure or the TV is unplugged, reset the clock.



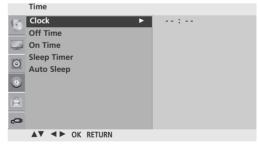
- Press the **MENU** button and then \wedge/\vee button to select the **Time** menu.
- Press the > button and then ^/ > button to select Clock.













TIME SETTING

AUTO ON/OFF TIMER SETTING

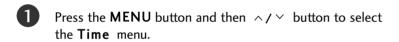
The Off time function automatically switches the TV to standby at a preset time.

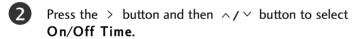
Two hours after the TV is switched on by the on time function it will automatically switch back to standby mode unless a button has been pressed.

Once the on time/off time is set, these functions operate daily at the preset time.

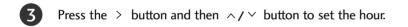
The Off time function overrides the On timer function if both are set to the same time.

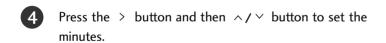
The TV must be in standby mode for the On timer to work.



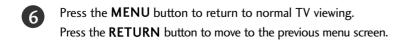


• To cancel On/Off Time function, select Off.



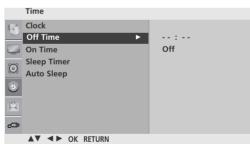


- For On Time function only
 - **Programme**: Press the > button and then ^/ \cong button to select the programme.
 - **Volume**: Press the → button and then ∧/ ∨ button to adjust volume level at switch-on.











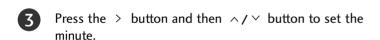


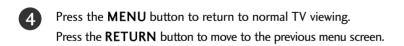
SLEEP TIMER SETTING

You do not have to remember to switch the TV off before you go to sleep. The sleep timer automatically switches the TV to standby after the preset time has elapsed.



- Press the **MENU** button and then \wedge/\vee button to select the **Time** menu.
- Press the > button and then ^/ > button to select Sleep Timer.











NOTE

▶ When you switch the TV off, the TV releases the preset sleep time.

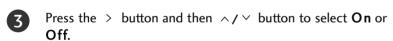
TIME SETTING

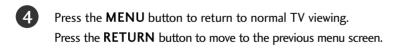
AUTO SHUT-OFF SETTING

If the TV set is switched on and there is no input signal, it will switch off automatically after 10 minutes.



- Press the **MENU** button and then \wedge/\vee button to select the **Time** menu.
- Press the > button and then ^/ > button to select Auto Sleep.











TELETEXT

This feature is not available in all countries.

Teletext is a free service broadcast by most TV stations which gives up-to-the-minute information on news, weather, television programmes, share prices and many other topics.

The teletext decoder of this TV can support the SIMPLE, TOP and FASTEXT systems. SIMPLE (standard teletext) consists of a number of pages which are selected by directly entering the corresponding page number. TOP and FASTEXT are more modern methods allowing quick and easy selection of teletext information.

SWITCH ON/OFF

Press the **TEXT** button to switch to teletext. The initial page or last page viewed appears on the screen.

Two page numbers, TV station name, date and time are displayed on the screen headline. The first page number indicates your selection, while the second shows the current page displayed.

Press the **TEXT** or **RETURN** button to switch off teletext. The previous mode reappears.

SIMPLE TEXT

■ Page selection

- Enter the desired page number as a three digit number with the NUMBER buttons. If during selection you press a wrong number, you must complete the three digit number and then re-enter the correct page number.
- 2 The $P \wedge / \vee$ button can be used to select the preceding or following page.

TELETEXT

TOP TEXT

The user guide displays four fields-red, green, yellow and blue at the bottom of the screen. The yellow field denotes the next group and the blue field indicates the next block.

■ Block / group / page selection

- With the blue button you can progress from block to block.
- Use the yellow button to proceed to the next group with automatic overflow to the next block.
- With the green button you can proceed to the next existing page with automatic overflow to the next group.

 Alternatively the P ^ button can be used.
- **1** The red button return to the previous selection. Alternatively the $\mathbf{P} \vee \mathbf{b}$ button can be used.

■ Direct page selection

As with SIMPLE teletext mode, you can select a page by entering it as a three digit number using the NUMBER buttons in TOP mode.

FASTEXT

The teletext pages are colour coded along the bottom of the screen and are selected by pressing the corresponding coloured button.

■ Page selection

- Press the button to select the index page.
- 2 You can select the pages which are colour coded along the bottom line with corresponding coloured buttons.
- S As with SIMPLE teletext mode, you can select a page by entering its three digit page number with the NUMBER buttons in FASTEXT mode.
- The $P \land / \lor$ button can be used to select the preceding or following page.

SPECIAL TELETEXT FUNCTIONS



■ TIME

When viewing a TV programme, press this button to display the time at the top right hand corner of the screen. Press this button again to remove the display. In the teletext mode, press this button to select a sub page number. The sub page number is displayed at the bottom of the screen. To hold or change the sub page, press the RED/GREEN, $P \land / \lor$ or NUMBER buttons.

Press again to exit this function.



■ SIZE

Selects double height text.

Press this button to enlarge the top half of the page.

Press this button again to enlarge the bottom half of the page.

Press this button again to return to the normal display.



UPDATE

Displays the TV picture on the screen while waiting for a new teletext page. The display will appear at the top left hand corner of the screen. When the updated page is available then display will change to the page number. Press this button again to view the updated teletext page.



■ REVEAL

Press this button to display concealed information, such as solutions to riddles or puzzles.

Press this button again to remove the information from the display.



■ INDEX

Select the each index page.



■ HOLD

Stops the automatic page change which will occur if a teletext page consists of 2 or more sub pages. The number of sub pages and the sub page displayed is, usually, shown on the screen below the time. When this button is pressed the stop symbol is displayed at the top left-hand corner of the screen and the automatic page change is inactive. To continue press this button again.

APPENDIX

TROUBLESHOOTING

The TV does not operate properly				
The remote control does not work	 Check to see if there is any object between the TV and the remote control causing an obstruction. Are batteries installed with correct polarity (+ to +, - to -)? Correct remote operating mode set: TV, STB etc.? Install new batteries. 			
Power is suddenly turned off	 Is the sleep time set? Check the power control settings. Has the Power supply been interrupted. Is Auto sleep activated on this station. 			

The video function does not work.					
 Check whether the TV is switched on. Try another channel. The problem may be with the broadcast. Is the power cord inserted correctly into the mains? Check your antenna direction and/or location. Test the mains outlet by plugging another TV into the same outlet. 					
Picture appears slow- ly after switching on					
No or poor colour or poor picture	 Adjust Colour in menu option. Allow a sufficient distance between the TV and the VCR. Try another channel. The problem may be with the broadcast. Are the video cables installed properly? Activate any function to restore the brightness of the picture. 				
Horizontal/vertical bars or picture shaking	■ Check for local interference such as an electrical appliance or power tool.				
Poor reception on some channels	 Station or cable channel experiencing problems, tune to another station. Station signal is weak, reposition the antenna to receive weaker stations. Check for sources of possible interference. 				
Lines or streaks in pictures	■ Check antenna (Change the position of the antenna).				
No picture when connecting HDMI	■ Check HDMI cable over version 1.3. If the HDMI cables don't support HDMI version 1.3, it can cause flickers or no screen display. In this case use the latest cables that support HDMI version 1.3.				

The audio function do	The audio function does not work.				
Picture OK & No sound	 Press the +/- (or Volume) button. Sound muted? Press MUTE button. Try another channel. The problem may be with the broadcast. Are the audio cables installed properly? 				
No output from one of the speakers	■ Adjust Balance in menu option.				
Unusual sound from inside the TV	■ A change in ambient humidity or temperature may result in an unusual noise when the TV is switched on or off and does not indicate a fault with the TV.				
No sound when connecting HDMI or USB	 Check HDMI cable over version 1.3. Check USB cable over version 2.0. *This feature is not available for all models. 				

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

APPENDIX

MAINTENANCE

Early malfunctions can be prevented. Careful and regular cleaning can prolong the life of your new TV. Caution: Be sure to swith the power off and unplug the power cord before you begin any cleaning.

Cleaning the Screen

- A good way to keep the dust off your screen for a while is to wet a soft cloth in a mixture of lukewarm water and a little fabric softener or dish washing detergent. Wring the cloth until it's almost dry, and then use it to wipe the screen.
- 2 Ensure there is no excess water on the screen. Allow any water or dampness to evaporate before switching on.

Cleaning the Cabinet

- To remove dirt or dust, wipe the cabinet with a soft, dry, lint-free cloth.
- Do not to use a wet cloth.

Extended Absence

A CAUTION

▶ If you expect to leave your TV dormant for prolonged periods (such as a holiday), unplug the power cord to protect against possible damage from lightning or power surges.

PRODUCT SPECIFICATIONS

		42PG6***	50PG6***	60PG6***		
MC	DDELS	42PG60UR-TA 42PG61UR-TA	50PG60UR-TA 50PG61 UR-TA	60PG60UR-TA 60PG61UR-TA		
Dimensions (Width x Height x Depth)	with stand	1044.4 x 735.4 x 308.0 mm 41.1x 28.9 x 12.1 inches	1235.6 x 849.3 x 364.1 mm 48.6 x 33.4x 14.3inches	1455 x 985 x 414 mm 57.3 x 38.8 x 16.3 inches		
	without stand	1044.4 x 680.6 x 79.6 mm 41.1 x 26.7 x 3.1 inches	1235.6 x 792.8 x 79.6 mm 48.6x 31.2 x 3.1 inches	1455 x 924.8 x 84.1 mm 57.3x 36.4 x 3.3 inches		
Weight	with stand without stand	28 kg / 61.7 lbs 25 kg / 55.1 lbs	43.65 kg / 96.2 lbs 39.7kg / 87.5lbs	59.2 kg / 130.5 lbs 51.7 kg / 114 lbs		
Power requirement		AC100-240V~ 50/60Hz	AC100-240V~ 50/60Hz	AC100-240V~ 50/60Hz		
		50PG3***	50PG7***	60PG7***		
MC	DDELS	50PG30FR-TD	50PG70FR-TB	60PG70FR-TB 60PG70FR-TA		
Dimensions (Width x Height x Depth)	with stand	1232 x 850 x 363.6 mm 48.5 x 33.5x 14.3inches	1235.6 x 849.3 x 364.1 mm 48.6 x 33.4x 14.3inches	1455 x 985 x 414 mm 57.3 x 38.8 x 16.3 inches		
	without stand	1232 x 793 x 84 mm 48.5x 31.2 x 3.3 inches	1235.6 x 792.8 x 79.6 mm 48.6x 31.2 x 3.1 inches	1455 x 924.8 x 84.1 mm 57.3x 36.4 x 3.3 inches		
Weight	with stand without stand	42.3 kg / 93.3 lbs 38.3kg / 84.4lbs	45.65 kg / 100.6 lbs 41.7kg / 91.9lbs	62.4 kg / 137.6 lbs 54.9 kg / 121 lbs		
Power requirement		AC100-240V~ 50/60Hz	AC100-240V~ 50/60Hz	AC100-240V~ 50/60Hz		
Television System		PAI	L/SECAM B/G/D/K, PAL I/II, N	TSC-M		
Program Coverage		VHF: NZ1~E21, UHF: E21 ~ E69, CATV: S1 ~ S20, HYPER: S21 ~ S47				
External Antenna Imped	lance	75 Ω				
	Operating Temperature	0 ~ 40°C / 32 ~ 104°F				
Environment condition	Operating Humidity		Less than 80%			
	Storage Temperature		-20 ~ 60°C / -4 ~ 140°F			
	Storage Humidity		Less than 85%			

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

APPENDIX

N	DELC.	32LG6***	37	LG6***	42LG6*	***	47LG6***	
MC	DDELS	32LG60UR-TA	37L0	G60UR-TA	42LG60FF	R-TA	47LG60FR-TA	
Dimensions (Width x Height x Depth)	with stand	00310 X 020 X 333 IIIIII		1037.8 x 794.6 x 379.5 mm 40.9x 31.3 x 14.9 inches		1152.8 x 868.6 x 434.5 mm 45.4 x 34.2 x 17.1 inches		
	without stand	805.6x 587.4x 96.2mm 31.7 x 23.1 x 3.7 inches		665x 98.7 mm 6.2 x 3.9 inches	1037.8x 747x 8 40.9 x 29.4 x 3		1152.8 x 820.8 x 79 mm 45.4 x 32.3x 3.1 inches	
Weight	with stand without stand	14.4 kg / 31.7 lbs 12.2 kg / 26.9 lbs		kg / 39.9 lbs kg / 46.7 lbs	21.4 kg / 47 20.4 kg / 4		32.8 kg / 72.3 lbs 27.2 kg / 60 lbs	
Power requirement		AC100-240V~ 50/60Hz	AC100-2	240V~ 50/60Hz	AC100-240V~	50/60Hz	AC100-240V~ 50/60Hz	
МС	DDELS	42LG7 *** 42LG70YR-TA			57 *** OYR-TA		52LG7*** 52LG70YR-TA	
Dimensions (Width x Height x Depth)	with stand	1026.2 x 734.0 x 293. 40.4 x 28.8 x 11.5 inc			.1 x 342.9 mm x 13.5 inches	1284.4 x 898.6 x 342.9 mm 50.5 x 35.3 x 13.5 inches		
	without stand	1026.2 x 687.9 x 111.8 40.4 x 27.0 x 4.4 inc				4.4 x 844.6 x 129.5 mm 0.5 x 33.2 x 5.0 inches		
Weight	with stand without stand	21.7 kg / 47.8 lbs 30.1 kg / 66.3 lbs 19.1 kg / 42.1 lbs 25.4 kg / 55.9 lbs			39.9 kg / 87.9 lbs 35.2kg / 77.6lbs			
Power requirement		AC100-240V~ 50/60Hz AC		AC100-240	AC100-240V~ 50/60Hz AC1		100-240V~ 50/60Hz	
MC	DDELS	32LG8 *** 32LG80UR-TA 32LG80FR-TA		42LG8*** 42LG80FR-TA			47LG75 ** 47LG75QR-TA	
Dimensions (Width x Height x Depth)	with stand	830 x 581.3 x 232 mm 32.7 x 22.9 x 9.1 inches		1063 x 722.2 x 293.3 mm 41.9x 28.4 x 11.5 inches		1140.4 x 820.1 x 342.9 mm 44.8 x 32.2 x 13.5 inches		
	without stand	830x 518.7x 108.5n 32.7 x 20.4 x 4.3 inc		19x 99mm x 3.9 inches	1140.4 x 764.8 x 129.0 mm 44.8 x 30.1 x 5.0 inches			
Weight	with stand without stand	13.79 kg / 30.4 lb 12.32 kg / 27.2 lb:		24.65 kg / 54.3 lbs 22.05 kg / 48.6 lbs		30.1 kg / 66.3 lbs 25.4 kg / 55.9 lbs		
Power requirement		AC100-240V~ 50/6	AC100-240	V~ 50/60Hz	A	C100-240V~ 50/60Hz		
Television System	PAL/SECAM B/G/D/K, PAL I/II, NTSC-M							
Program Coverage External Antenna Imped	VHF: NZ1~E21, UHF: E21 ~ E69, CATV: S1 ~ S20, HYPER: S21 ~ S47 $ 75~\Omega $					/PER: S21 ~ S47		
Environment condition	Operating Temperature Operating Humidity				/ 32 ~ 104°l than 80%	F		
Storage Temperature Storage Humidity		-20 ∼ 60°C / -4 ∼ 140°F Less than 85%						

 $[\]blacksquare$ The specifications shown above may be changed without prior notice for quality improvement.

PROGRAMMING THE REMOTE CONTROL

The remote control is a multi brand or universal remote. It can be programmed to operate most remote controlled devices from other manufacturers.

Note that the remote control may not control all models from other brands.

Programming a code into a remote mode

- Testing your remote control.

 To find out whether your remote control can operate other components without programming, turn on a component such as a STB and press the corresponding mode button (such as a DVD or STB) on the remote control, while pointing at the component. Test the POWER and P ^/ buttons to see if the component responds correctly. If the component does not operate correctly, the remote control requires programming to operate the device.
- Switch on the component to be programmed, then press the corresponding mode button (such as a DVD or STB) on the remote control. The remote control button of the desired device is illumintated.
- Press the MENU and MUTE buttons simultaneously, the remote control is ready to be programmed with the code.
- Enter a code number using the number buttons on the remote control. Programming code numbers for the corresponding component can be found on the following pages. If the code is correct, the device will turn off.
- Press the **MENU** button to store the code.
- Test the remote control functions to see if the component responds correctly. If not, repeat from step 2.

APPENDIX

Programming code

(This feature is not available for all models.)

DVD

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

HDSTB

Brand	Code	es			Brand	Code	es			Brand	Code	es		
ALPHASTAR DSR	123				HOUSTON TRACKER	033	037	039	051	REALISTIC	043	074		
AMPLICA	050					057	104			SAMSUNG	123			
Astro Philips(ML)	159				HUGHES	068				SATELLITE SERVICE CO	028	035	047	057
Astro Thompson(ML)	160				Humax(SL)	158					085			
Astro Nokia(ML)	161				JANIEL	060	147			Samart(TH)	156			
BIRDVIEW	051	126	129		JERROLD	061				SCIENTIFIC ATLANTA	032	138		
CHANNEL MASTER	013	014	015	018	KATHREIN	108				SONY	103			
	036	055			LEGEND	057				STARCAST	041			
CHAPARRAL	800	009	012	077	LG	001				SUPER GUIDE	020	124	125	
CITOH	054				LUTRON	132				TEECOM	023	026	075	087
CURTIS MATHES	050	145			LUXOR	062	144				088	090	107	130
DRAKE	005	006	007	010	MACOM	010	059	063	064		137			
	011	052	112	116		065				TOSHIBA	002	127		
	141				MEMOREX	057				True Vision(TH)	155			
DX ANTENNA	024	046	056	076	NEXTWAVE	028	124	125		UBC(TH)	153			
ECHOSTAR	038	040	057	058	NORSAT	069	070			UBC/SAMART(TH)	154			
	093	094	095	096	PACE SKY SATELLITE	143				UNIDEN	016	025	042	043
	097	098	099	100	PANASONIC	060	142				044	045	048	049
	122				PANSAT	121					078	079	080	086
ELECTRO HOME	089				PERSONAL CABLE	117					10	135	136	
EUROPLUS	114				PHILIPS	071				VIEWSTAR	115			
FUJITSU	017	021	022	027	PICO	105				VTC(VN)	162			
	133	134			PRESIDENT	019	102			WINEGARD	128	146		
GENERAL INSTRUMEN	IT 003	004	016	029	PRIMESTAR	030	110	111		ZENITH	081	082	083	084
	031	059	101		PROSAT	072					091	120		
HITACHI	139	140			PSI(TH)	157								
					RCA	066	106							

IR CODES

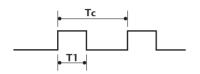
1. How to Connect

■ Connect your wired remote control to the Remote Control port on the TV.

2. Remote Control IR Codes

■ Output waveform

Single pulse, modulated with 37.917KHz signal at 455KHz



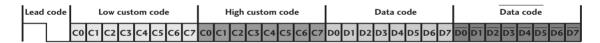
Carrier frequency

FCAR = 1/TC = fOSC/12

Duty ratio = T1/TC = 1/3

■ Configuration of frame

1st frame



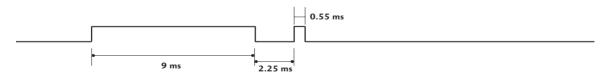
Repeat frame



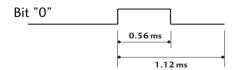
■ Lead code

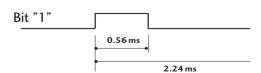


■ Repeat code



■ Bit description





■ Frame interval: Tf

The waveform is transmitted as long as a key is depressed.



APPENDIX

Code (Hexa)	Function	Note	Code (Hexa)	Function	Note
ОВ	INPUT	R/C Button	09	MUTE	R/C Button
08	POWER	R/C Button (Power On/Off)	53	LIST	R/C Button
60	PIP	R/C Button	10 ~ 19	Number Key 0 ~ 9	R/C Button
43	MENU	R/C Button	1E	FAV	R/C Button
5B	RETURN	R/C Button	1A	Q.VIEW	R/C Button
07	<	R/C Button	20	TEXT	R/C Button
06	>	R/C Button	ВО	SIZE	R/C Button
40	^	R/C Button	8F	INDEX	R/C Button
41	~	R/C Button	B1	TIME	R/C Button
44	OK	R/C Button	BD	REVEAL	R/C Button
72	RED	R/C Button	8E	HOLD	R/C Button
71	GREEN	R/C Button	BA	UPDATE	R/C Button
63	YELLOW	R/C Button	7E	SIMPLINK	R/C Button
61	BLUE	R/C Button	B1	■ Stop	R/C Button
02	<u></u> +	R/C Button	ВО	► Play	R/C Button
03	<u>_</u> -	R/C Button	BA	Pause	R/C Button
00	ΡΛ	R/C Button	8F	◄ Rew	R/C Button
01	PΥ	R/C Button	8E	▶▶ FF	R/C Button
30	AV MODE	R/C Button	45	Q.MENU	R/C Button
7C	\mathbf{X} STUDIO	R/C Button	BD	●(Record)	R/C Button

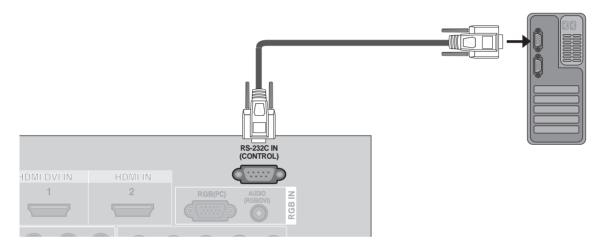
EXTERNAL CONTROL THROUGH RS-232C (ONLY PLASMA TV MODELS)

Connect the RS-232C input jack to an external control device (such as a computer or an A/V control system) and control the TV's functions externally.

Connect the serial port of the control device to the RS-232C jack on the TV back panel.

RS-232C connection cables are not supplied with the TV.

RS-232C Setup



Type of Connector; D-Sub 9-Pin Male

No.	Pin Name
1	No connection
2	RXD (Receive data)
3	TXD (Transmit data)
4	DTR (DTE side ready)
5	GND
6	DSR (DCE side ready)
7	RTS (Ready to send)
8	CTS (Clear to send)
9	No Connection

APPENDIX

RS-232C Configurations

7-Wire Co	7-Wire Configurations (Standard RS-232C cable						
	PC	TV					
RXD	2 •——	3	TXD				
TXD	3 •	2	RXD				
GND	5 •	<u> </u>	GND				
DTR	4 •	6	DSR				
DSR	6 •——	• 4	DTR				
RTS	7 •——	8	CTS				
CTS	8 •	 	RTS				
	D-Sub 9	D-Sub 9					

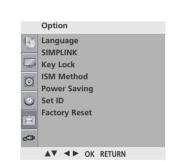
3-W	3-Wire Configurations(Not standard)							
	PC	TV						
RXD	2 •—	— 3	TXD					
TXD	3 •—	 2	RXD					
GND	5 •—	─ 5	GND					
DTR	4	6	DTR					
DSR	6	4	DSR					
RTS	7	7	RTS					
CTS	8	8	CTS					
	D-Sub 9	D-Sub 9						

Set ID (Only Plasma TV models)

Use this function to specify a set ID number. Refer to 'Real Data Mapping' 1. See page p.112.

- Press the MENU button and then use \land / \lor button to select the OPTION menu.
- Press the > button and then use \(\triangle / \triangle \) button to select **Set ID**.
- Press the > button and then use < / > button to adjust **Set ID** to choose the desired TV ID number.

 The adjustment range of SET ID is 1~99.
- Press the **MENU** button to return to normal TV viewing. Press the **RETURN** button to move to the previous menu screen.





23

Communication Parameters

■Baud rate : 9600 bps (UART) ■Stop bit : 1 bit

■ Data length: 8 bits ■ Communication code: ASCII code ■ Parity: None ■ Use a crossed (reverse) cable.

Command Reference List

	COMMAND1	COMMAND2	DATA (Hexadecimal)		COMMAND1	COMMAND2	DATA (Hexadecimal)
01. Power	k	a	00 ~ 01	15. Balance	k	t	00 ~ 64
02. Aspect Ratio	k	c Ref	er to p.110	16. Colour Temperatu	ure k	u	00 ~ 03
03. Screen Mute	k	d	00 ~ 01	17. Red Adjustment	k	V	00 ~ 3C
04. Volume Mute	k	e	00 ~ 01	18. Green Adjustmen	t k	W	00 ~ 3C
05. Volume Control	k	f	00 ~ 64	19. Blue Adjustment	k	\$	00 ~ 3C
06. Contrast	k	g	00 ~ 64	20. Abnormal Status	k	Z	FF
07. Brightness	k	h	00 ~ 64	21. ISM Method	j	р	Refer to p.112
08. Colour	k	i	00 ~ 64	22. Power Saving	j	q	00 ~ 04
09. Tint	k	j	00 ~ 64	23. Auto Configure	j	u	01
10. Sharpness	k	k	00 ~ 64	24. Equalize	j	٧	Refer to p.112
11. OSD Select	k	I	00 ~ 01	25. Tune Command	m	a	Refer to p.113
12. Remote Control Loc	k k	m	00 ~ 01	26. Channel Skip	m	b	00 ~ 01
/Key Lock Mode				27. Key	m	С	Key Code
13. PIP/DW	k	n	00 ~ 03	28. Input select (Mair	n) x	b	Refer to p.113
14. PIP Position	k	q	00 ~ 03	29. Input select(PIP)	х	у	Refer to p.113

Transmission / Receiving Protocol

Transmission

[Command1][Command2][][Set ID][][Data][Cr]

[Command 1]: First command to control the set.(j,k,m or x) [Command 2]: Second command to control the set.

[Set ID]: You can adjust the set ID to choose desired TV ID number in Setup menu. Adjustment range is 1~99. When selecting Set ID '0', every connected TV is controlled. Set ID is indicated as decimal (1~99) on menu and as Hexa decimal (0x0~0x63) on transmission/receiving protocol.

[DATA]: To transmit command data.

Transmit 'FF' data to read status of comand.

[Cr] : Carriage Return

ASCII code '0x0D'

[]: ASCII code 'space (0x20)'

OK Acknowledgement

[Command2][][Set ID][][OK][Data][x]

The TV transmits ACK (acknowledgement) based on this format when receiving normal data. At this time, if the data is data read mode, it indicates present status data. If the data is data write mode, it returns the data of the PC computer.

Error Acknowledgement

[Command2][][Set ID][][NG][Data][x]

TV transmits ACK(acknowledgement) based on this format when receiving abnormal data form non-viable functions or communication errors.

[Command 2] : use as command.

[Set ID]: use the small character, if set ID is 10, TV will send the '0', 'a' [Data]: use the small character, if data is 0xab, TV will send the 'a', 'b'. [NG]: use the large character.

APPENDIX

01. Power (Command: k a)

To control Power On/Off of the TV.

Transmission [k][a][][Set ID][][Data][Cr]

Data 00 : Power Off Data 01 : Power On

 $\label{localization} \textit{Acknowledgement} \ [a][\][\mathsf{Set}\ \mathsf{ID}][\][\mathsf{OK/NG}][\mathsf{Data}][x]$

To show Power On/Off.

Transmission [k][a][][Set ID][][FF][Cr]

Acknowledgement [a][][Set ID][][OK/NG][Data][x]

* If there is the time delay between command and ack message during power on sequence, It should be described like "Note: In this model, TV will send the Acknowledge after power on processing completion. There might be a time delay between command and acknowledge."

02. Aspect Ratio (Command: k c) (Main picture size)

To adjust the screen format. (Main picture format)
You can adjust the screen format using the Aspect
Ratio in the Picture menu.

Transmission [k][c][][Set ID][][Data][Cr]

Data 01: Normal screen (4:3) Data 06: Original
Data 02: Wide screen (16:9) Data 07: 14:9
Data 04: Zoom1 Data 09: Just Scan

Data 05: Zoom2

Acknowledgement [c][][Set ID][][OK/NG][Data][x]

- * Using the RGB-PC, Component or HDMI input, you select either 16:9 or 4:3 screen aspect ratio.
- In HDMI/Component (over 720p) mode, Just Scan is available.

03. Screen Mute (Command: k d)

To select screen mute on/off.

Transmission [k][d][][Set ID][][Data][Cr]

Data 00 : Screen mute off (Picture on)
Data 01 : Screen mute on (Picture off)

Acknowledgement [d][][Set ID][][OK/NG][Data][x]

04. Volume Mute (Command: k e)

To control volume mute on/off.

You can also adjust mute using the MUTE button on remote control.

Transmission [k][e][][Set ID][][Data][Cr]

Data 00 : Volume mute on (Volume off)
Data 01 : Volume mute off (Volume on)

Acknowledgement [e][][Set ID][][OK/NG][Data][x]

05. Volume Control (Command: k f)

To adjust volume.

You can also adjust volume with the volume buttons on remote control.

Transmission [k][f][][Set ID][][Data][Cr]

Data Min: 00 ~ Max: 64

Refer to 'Real data mapping 1'. See page 112.

Acknowledgement [f][][Set ID][][OK/NG][Data][x]

06. Contrast (Command: k g)

To adjust screen contrast.

You can also adjust contrast in the Picture menu.

Transmission [k][g][][Set ID][][Data][Cr]

Data Min: 00 ~ Max: 64

Refer to 'Real data mapping 1'. See page 112.

Acknowledgement [g][][Set ID][][OK][Data][x]

07. Brightness (Command: k h)

To adjust screen brightness.

You can also adjust brightness in the Picture menu.

Transmission [k][h][][Set ID][][Data][Cr]

Data Min: 00 ~ Max: 64

Refer to 'Real data mapping 1'. See page 112.

Acknowledgement [h][][Set ID][][OK/NG][Data][x]

08. Colour (Command: ki)

To adjust the screen colour.

You can also adjust colour in the Picture menu.

Transmission [k][i][][Set ID][][Data][Cr]

Data Min: 00 ~ Max: 64

Refer to 'Real data mapping 1'. See page 112.

Acknowledgement [i][][Set ID][][OK/NG][Data][x]

09. Tint (Command: k j)

To adjust the screen tint.

You can also adjust tint in the Picture menu.

Transmission [k][j][][Set ID][][Data][Cr]

Data Red: 00 ~ Green: 64

Refer to 'Real data mapping 1'. See page 112.

Acknowledgement [j][][Set ID][][OK/NG][Data][x]

10. Sharpness (Command: k k)

To adjust the screen sharpness.

You can also adjust sharpness in the Picture menu.

Transmission [k][k][][Set ID][][Data][Cr]

Data Min: 00 ~ Max: 64

Refer to 'Real data mapping 1'. See page 112.

Acknowledgement [k][][Set ID][][OK/NG][Data][x]

11. OSD Select (Command: k l)

To select OSD (On Screen Display) on/off when controlling remotely.

Transmission [k][][][Set ID][][Data][Cr]

Data 00: OSD off Data 01: OSD on

Acknowledgement [I][][Set ID][][OK][Data][x]

12. Remote Control Lock/Key Lock Mode (Command: k m)

To lock the remote control and the front panel controls on the set.

Transmission [k][m][][Set ID][][Data][Cr]

Data 00: Lock off Data 01: Lock on

Acknowledgement [m][][Set ID][][OK/NG][Data][x]

13. PIP / DW (Command: k n)

To control the PIP (Picture In picture)/DW.

You can also control the PIP/DW using the PIP button on the remote control or in the PIP/DW menu.

Transmission [k][n][][Set ID][][Data][Cr]

Data 00:PIP/DW off
Data 01: PIP
Data 02: DW1
Data 03: DW2

Acknowledgement [n][][Set ID][][OK/NG][Data][x]

14. PIP Position (Command: k q)

To select sub picture position for PIP.

You can also adjust the sub picture position using

PIP button on the remote control or in the PIP/DW

iiciiu.

Transmission [k][q][][Set ID][][Data][Cr]

Data 00: Right down on screen

Data 01: Left down on screen

Data 02: Left up on screen

Data 03: Right up on screen

Acknowledgement [q][][Set ID][][OK/NG][Data][x]

15. Balance (Command: k t)

To adjust balance.

You can also adjust balance in the Audio menu.

Transmission [k][t][][Set ID][][Data][Cr]

Data Min: 00 ~ Max: 64

Refer to 'Real data mapping 1'. See page 112.

Acknowledgement [t][][Set ID][][OK/NG][Data][x]

16. Colour Temperature (Command: k u)

To adjust colour temperature.

You can also adjust Colour Temperature in the Picture

Transmission [k][u][][Set ID][][Data][Cr]

Data 00: Medium 01: Cool 02: Warm 03: User

Acknowledgement [u][][Set ID][][OK/NG][Data][x]

17. Red Adjustment (Command: k v)

To adjust red in colour temperature.

Transmission [k][v][][Set ID][][Data][Cr]

Data Min: 00 ~ Max: 3C

Refer to 'Real data mapping 2'. See page 112.

Acknowledgement [v][][Set ID][][OK/NG][Data][x]

18. Green Adjustment (Command: k w)

To adjust green in colour temperature.

Transmission [k][w][][Set ID][][Data][Cr]

Data Min: 00 ~ Max: 3C

Refer to 'Real data mapping 2'. See page 112.

Acknowledgement [w][][Set ID][][OK/NG][Data][x]

19. Blue Adjustment (Command: k \$)

To adjust blue in colour temperature.

Transmission [k][\$][][Set ID][][Data][Cr]

Data Min: 00 ~ Max: 3C

Refer to 'Real data mapping 2'. See page 112.

Acknowledgement [\$][][Set ID][][OK/NG][Data][x]

APPENDIX

20. Abnormal State (Command: k z)

To recognize an abnormal state.

Transmission [k][z][][Set ID][][FF][][Cr]

Data FF: Read

Acknowledgement [z][][Set ID][][OK/NG][Data][x]

Data 00: Normal (Power on and signal exist)

Data 01: No signal (Power on)

Data 02: Turn the TV off by remote control
Data 03: Turn the TV off by sleep time function
Data 04: Turn the TV off by RS-232C function

Data 05: 5V down Data 06: AC down

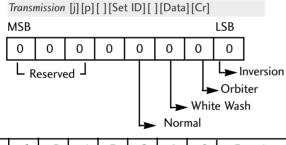
Data 07: Turn the TV off by Fan Alarm function (option)

Data 08: Turn the TV off by Off time function
Data 09: Turn the TV off by Auto off function
Data a: Turn the TV off by AV board detection.

* This function is "read only".

21. ISM Method (Command: j p)

To avoid having a fixed image remain on screen.



7	6	5	4	3	2	1	0	Function
				0	0	0	1	Inversion
				0	0	1	0	Orbiter
				0	1	0	0	White wash
				1	0	0	0	Normal
х	Х	Х	Х					Reserved

^{*}More two kinds of function can not be set at a time.

Acknowledgement [p][][Set ID][][OK/NG][Data][x]

22. Low Power(Power Saving) (Command: j q)

To reduce the power consumption of the TV.

Transmission [j][q][][Set ID][][Data][][Cr]

Data Min: 00 ~ Max: 04

(*transmit by Hexadecimal code)

Acknowledgement [q][][Set ID][][OK/NG][Data][x]

23 . Auto Configure (Command: j u)

To adjust picture position and minimize image shaking automatically. It works only in RGB (PC) mode.

Transmission [j][u][][Set ID][][Data][Cr]

Data 01: To set

Acknowledgement [u][][Set ID][][OK/NG][Data][x]

24. Equalize(Command: j v)

► To adjust equalize.

Transr	Transmission [j][v][][Set ID][][Data][Cr]									
MSB	MSB LSB									
0	0 0 0 0 0 0 0 0									
L_{Fr}	L _{Frequency} L Data									

7	6	5	Frequency	4	3	2	1	0	Step
0	0	0	1'st Band	0	0	0	0	0	0(decimal)
0	0	1	2'nd Band	0	0	0	0	1	1 (decimal)
0	1	0	3'rd Band	0	0	0	1	0	2 (decimal)
0	1	1	4'th Band						
1	0	0	5'th Band						
1	0	1	6'th Band						
1	1	0	7'th Band	1	1	1	1	0	30(decimal)
1	1	1	8'th Band	1	1	1	1	1	31 (decimal)

Acknowledgement [v][][Set ID][][OK/NG][Data][x]

* Real data mapping 1

00 : Step 0 ... A : Step 10 ...

F : Step 15 10 : Step 16

64 : Step 100 ... 6E : Step 110

. 73 : Step 115 74 : Step 116

C7: Step 199

FE: Step 254 FF: Step 255

* Real data mapping 2

00: -30 01: -29 02: -28 ... 1E: 0 ... 28: +10 ... 3A: +28 3B: +29 3C: +30 ... 4E: N/A 4F: N/A 50: N/A

25 . Tune Command (Command: m a)

Tune Channel to following Physical/major/minor number

Transmission [m][a][][Set ID][][Data0][][Data1]
[][Data2][Cr]

Data 0: Min: 00H ~ Max: 63H (* transmit by Hexadecimal code)

Data 1: Don't care Data 2: 0: Main 1: Sub

Acknowledgement [a][][Set ID][][OK][Data0][Data1][x]
[a][][Set ID][][NG][Data0][x]

26. Channel Skip(Command: m b)

► To set skip status for the current Programme.

Transmission [m][b][][Set ID][][Data][Cr]

Data 00 : Skip 01 : Add

Acknowledgement [b][][Set ID][][OK/NG][Data][x]

27. Key (Command: m c)

To send IR remote key code.

Transmission [m][c][][Set ID][][Data][Cr]

Data: Key code - Refer to page 106.

 $\label{local_continuity} Acknowledgement \ [c][\][Set\ ID][\][OK/NG][Data][x]$

28. Input select (Command: x b)

(Main Picture Input)

To select input source for TV.

Transmission [x][b][][Set ID][][Data][Cr]

Data: Structure

MSB							LSB
0	0	0	0	0	0	0	0
LE	xterna	l Inpu	t \Box	L _{In}	put N	umber	

I	Externa	al Inpu	t	Data
0	0	0	1	Analog
0	0	1	0	AV
0	1	0	0	Component
0	1	1	0	RGB-PC
1	0	0	1	HDMI

ı	nput N	lumbe	r	Data
0	0	0	0	Input1
0	0	0	1	Input2
0	0	1	0	Input3
0	0	1	1	Input4

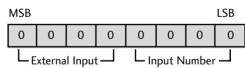
Acknowledgement [b][][Set ID][][OK/NG][Data][x]

29. Input select (Command: x y)

To adjust input source for sub picture in PIP mode

Transmission [x][y][][Set ID][][Data][Cr]

Data: Structure



				•
	Externa	al Inpu	t	Data
0	0	0	1	Analog
0	0	1	0	AV

	nput N	Numbe	r	Data
0	0	0	0	Input1
0	0	0	1	Input2
0	0	1	0	Input3
0	0	1	1	Input4

Acknowledgement [y][][Set ID][][OK/NG][Data][x]

