

OWNER'S MANUAL

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



HDMI, the HDMI logo and High-Definition Multimedia Interface are trademarks or registered trademarks of HDMI Licensing LLC.

CONTENTS

PREPARATION

Accessories	A- 1	l
ACCESSUNES	A-	ł

EXTERNAL EQUIPMENT SETUP

Antenna Connection	1
Connecting with a Component cable	2
Connecting with a HDMI cable	3
Connecting with a HDMI to DVI cable	4
Usb setup	4
Connecting with a RCA cable	5
Connecting with a RF Cable	6
External stereo setup	6
Connecting with a D-sub 15 pin cable	7
Supported display resolution	8
Screen Setup for PC mode	9

WATCHING TV / PROGRAMME CONTROL

Turning on the TV Initializing Setup Programme Selection	13 13
Volume Adjustment	
Quick Menu	
On Screen Menus Selection and adjustment	15
Auto programme tuning	16
Manual programme Tuning	17
Programme Edit	19
Selecting the Programme List	
Favourite programme setup	22
Input List	23
Input Label	24
(S)MPLINK	25
AV Mode	28
Initializing (Reset to original factory settings)	
Key Lock	

TO USE A USB DEVICE

When connecting a USB device	31
Photo list	33
Music list	37
Movie list	40
DIVX® VOD GUIDE	44
DIVX® VOD DEREGISTRATION	45

PICTURE CONTROL

Picture Size (Aspect Ratio) Control	46
Energy Saving	
Preset Picture Settings	49
Manual Picture Adjustment	50
Picture Improvement Technology	51
Expert picture control	52
Picture Reset	55
Power Indicator	56
Demo Mode	57
Mode Setting	58

SOUND & LANGUAGE CONTROL

59
60
61
62
63
64
65
66
67
67
68
68
69

CONTENTS

TIME SETTING

Clock Setup	70
Auto on/off time setting	71
Sleep Timer setting	71

TELETEXT

Switch on/off	72
SIMPLE Text	72
TOP Text	72
FASTEXT	73
Special Teletext Functions	73

APPENDIX

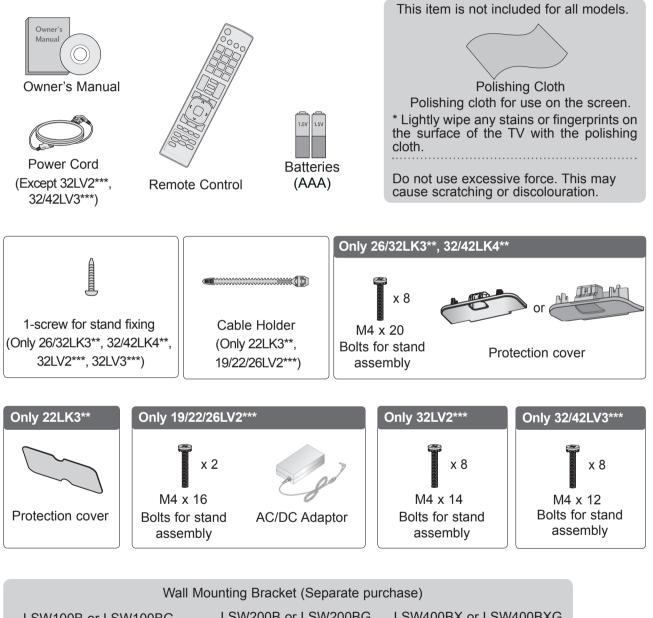
Troubleshooting	74
Maintenance	76
Product Specifications	77
IR Codes	79
External Control Device Setup	80

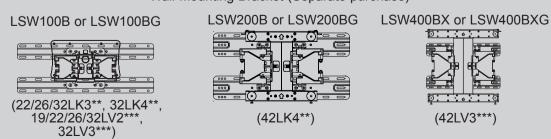
PREPARATION

ACCESSORIES

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

Image shown may differ from your TV.





FRONT PANEL CONTROLS

► The energy consumed during use can be significantly reduced if the level of brightness of the picture is reduced, and this will reduce the overall running cost.

- Do not step on the glass stand or subject it to any impact. It may break, causing possible injury from fragments of glass, or the TV may fall.
- ▶ Do not drag the TV. The floor or the product may be damaged.

Image shown may differ from your TV.

Only 22/26/32LK3**

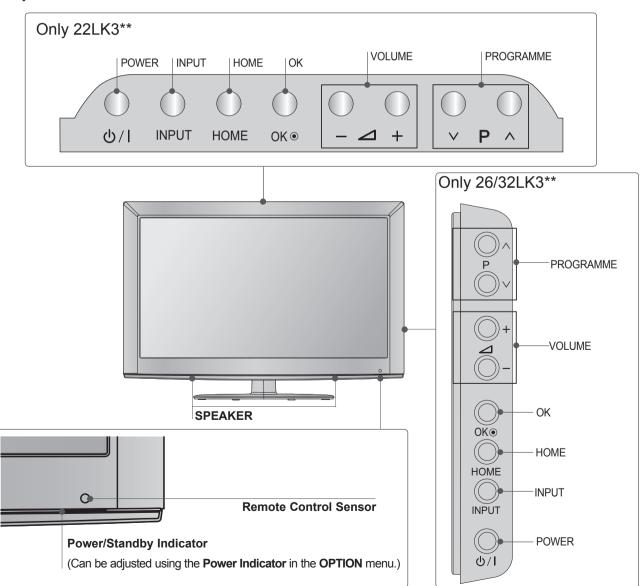
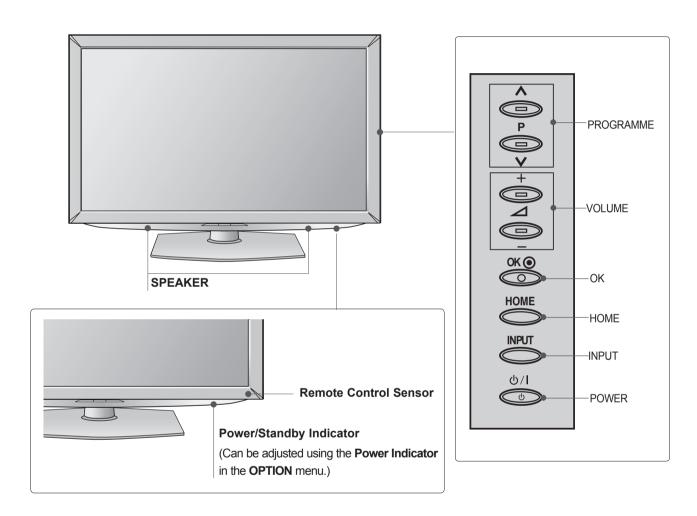


Image shown may differ from your TV.
Only 32/42LK4**



FRONT PANEL CONTROLS

Image shown may differ from your TV. Only 19/22/26/32LV2***

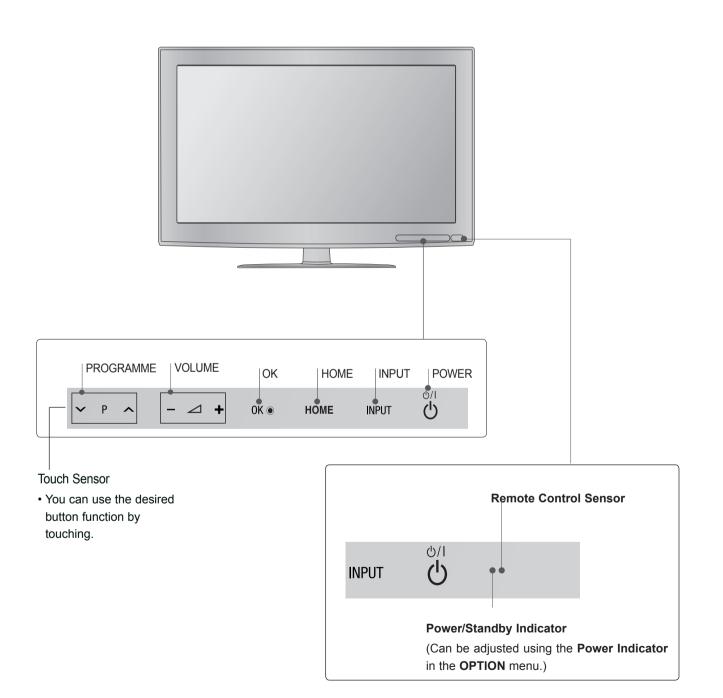
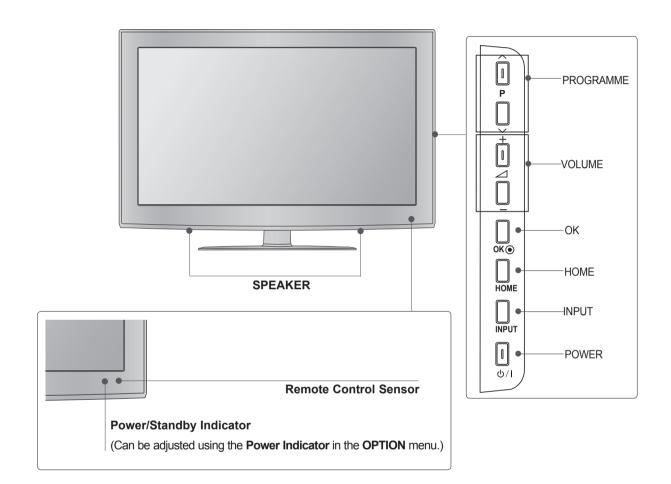


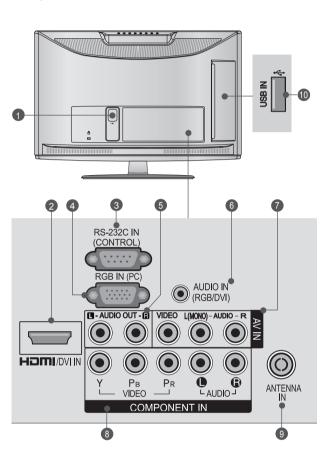
Image shown may differ from your TV.
 Only 32/42LV3***



BACK PANEL INFORMATION

Image shown may differ from your TV.

Only 22LK3**



Power Cord Socket

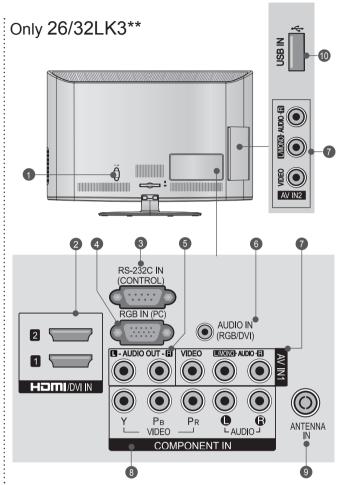
This TV operates on an AC power. The voltage is indicated on the Specifications page. Never attempt to operate the TV on DC power.

2 HDMI Input

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

- SRS-232C Input (CONTROL&SERVICE) Port Connect to the RS-232C port on a PC. This port is used for Service or Hotel mode.
- **RGB Input** Connect the output from a PC.
- Audio Output

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

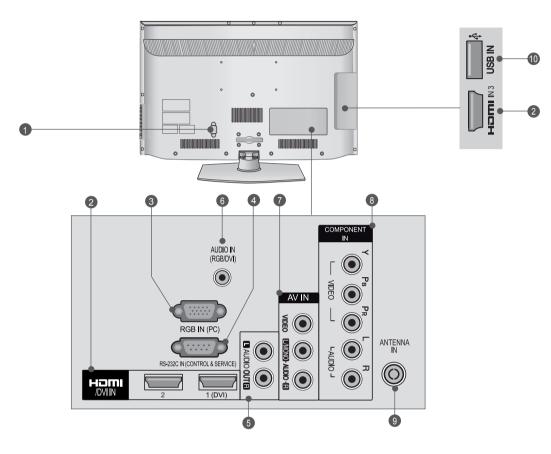


- 6 RGB/DVI Audio Input Connect the audio from a PC.
- Audio/Video Input Connect audio/video output from an external device to these jacks.
- Component Input Connect a component video/audio device to these jacks.
- Onternal Angeland States and S
- USB Input Connect USB storage device to this jack.

BACK PANEL INFORMATION

Image shown may differ from your TV.

Only 32/42LK4**



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.

2 HDMI Input

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

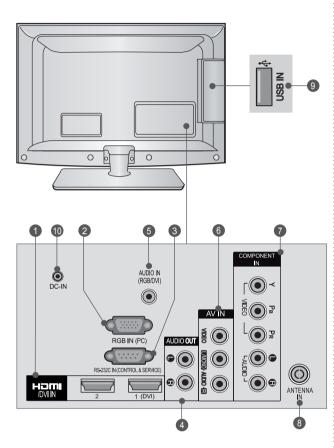
- **3 RGB Input** Connect the output from a PC.
- RS-232C Input (CONTROL&SERVICE) Port Connect to the RS-232C port on a PC. This port is used for Service or Hotel mode.
- **6** Audio Output

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

- 6 RGB/DVI Audio Input Connect the audio from a PC.
- Audio/Video Input Connect audio/video output from an external device to these jacks.
- Component Input Connect a component video/audio device to these jacks.
- Antenna Input Connect RF antenna to this jack.
- USB Input Connect USB storage device to this jack.

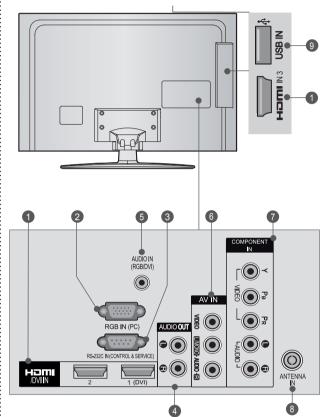
Image shown may differ from your TV.

Only 19/22/26LV2***

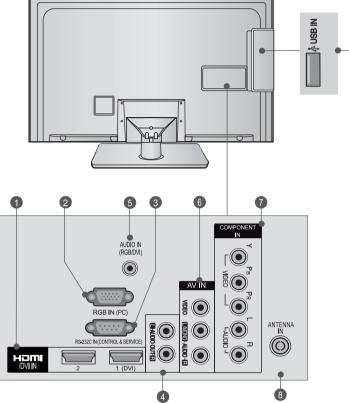


- HDMI Input Connect an HDMI signal to HDMI IN. Or DVI(VIDEO)signal to HDMI/DVI port with DVI to HDMI cable.
- **RGB Input** Connect the output from a PC.
- SRS-232C Input (CONTROL&SERVICE) Port Connect to the RS-232C port on a PC. This port is used for Service or Hotel mode.
- Audio Output Connect an external amplifier or add a subwoofer to your surround sound system.
- **6 RGB/DVI Audio Input** Connect the audio from a PC.

Only 32LV2***



- Audio/Video Input
 Connect audio/video output from an external
 device to these jacks.
- Component Input Connect a component video/audio device to these jacks.
- Antenna Input
 Connect RF antenna to this jack.
- USB Input Connect USB storage device to this jack.
- DC ADAPTER PORT Connect to the power cord socket.



HDMI Input

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

Image shown may differ from your TV.

Only 32/42LV3***

- **2 RGB Input** Connect the output from a PC.
- SRS-232C Input (CONTROL&SERVICE) Port Connect to the RS-232C port on a PC. This port is used for Service or Hotel mode.
- Audio Output Connect an external amplifier or add a subwoofer to your surround sound system.
- **6 RGB/DVI Audio Input** Connect the audio from a PC.

- 6 Audio/Video Input Connect audio/video output from an external device to these jacks.
- Connect a component video/audio device to these jacks.
- Antenna Input
 Connect RF antenna to this jack.
- USB Input Connect USB storage device to this jack.

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 22LK3**

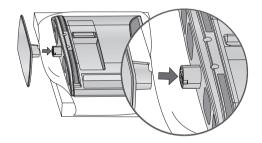


Carefully place the TV screen side down on a cushioned surface to protect the screen from damage.





Assemble the TV as shown.



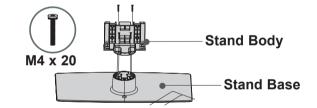
Only 26/32LK3**, 32/42LK4**

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



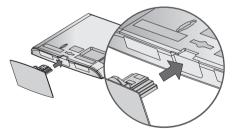


Assemble the parts of the **Stand Body** with the **Stand Base** of the TV



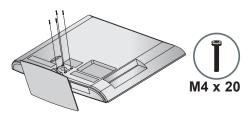


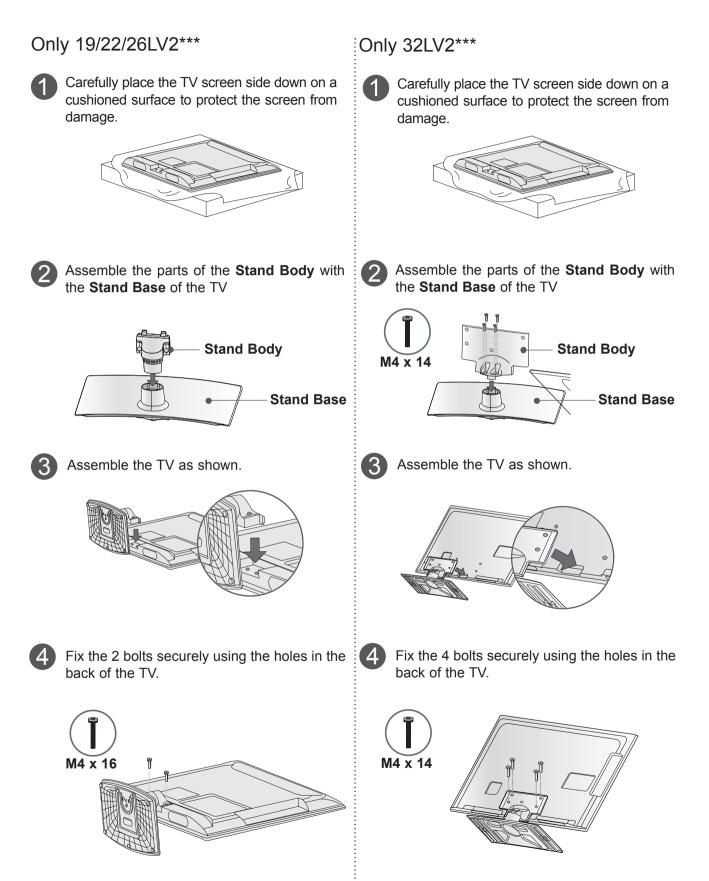
Assemble the TV as shown.





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





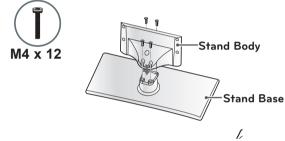
Only 32/42LV3***



Carefully place the TV screen side down on a cushioned surface to protect the screen from: Image shown may differ from your TV. damage. Only 22LK3**

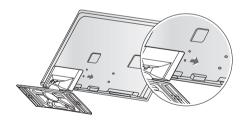


Assemble the parts of the **Stand Body** with the **Stand Base** of the TV





Assemble the TV as shown.





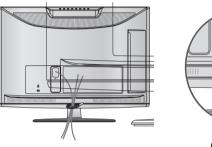
Fix the 4 bolts securely using the holes in the back of the TV.





BACK COVER FOR WIRE ARRANGEMENT

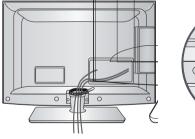
After Connecting the cables as necessary, install **CABLE HOLDER** as shown and bundle the cables.





Only 19/22/26LV2***

After Connecting the cables as necessary, install **CABLE HOLDER** as shown and bundle the cables.

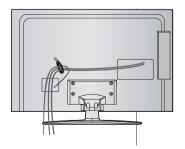




Cable Holder

Only 32LV2***

Gather and bind the cables with the **Cable Holder** on the TV back cover.





Cable Holder

Only 26/32LK3**, 32/42LK4**



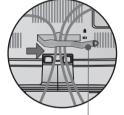
Connect the cables as necessary. To connect additional equipment, see the **External Equipment Setup** section.





Open the **Cable Management Clip** as shown and manage the cables.

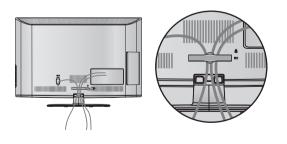




Cable Management Clip



3 Fit the Cable Management Clip as shown.

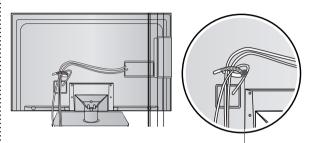


NOTE

- ► 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.

Only 32/42LV3***

After Connecting the cables as necessary, install **CABLE HOLDER** as shown and bundle the cables.



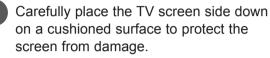
Cable Holder

NOT USING THE DESK-TYPE STAND

Image shown may differ from your TV.

When installing the wall-mounted unit, use the protection cover.

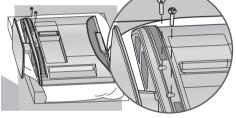
Only 22LK3**





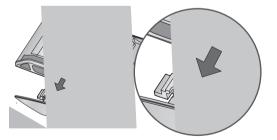


Loose the bolts from TV.

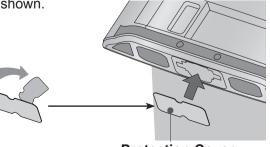




Detach the **Stand** from **TV**.



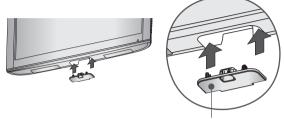
After removing the protection paper from the protection cover, adhere it to the TV as shown.



Protection Cover

Only 26/32LK3**, 32/42LK4**

Insert the **Protection Cover** into the TV until clicking sound.



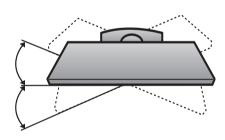
Protection Cover

SWIVEL STAND

(Only 26/32LK3**, 32/42LK4**, 32/42LV3***)

- Image shown may differ from your TV.
- 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.



POSITIONING YOUR DISPLAY

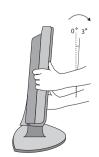
(Only 22LK3**)

Image shown may differ from your TV.

Adjust the position of the panel in various ways for maximum comfort.

Tilt range





ATTACHING THE TV TO A DESK

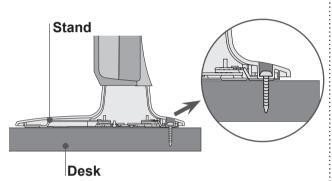
(Only 26/32LK3**, 32/42LK4**, 32LV2***, 32LV3***)

- Image shown may differ from your TV.
- This feature is not available for all models.

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.



1-Screw (provided as parts of the product)



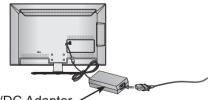
WARNING

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.

CONNECTION OF TV

(Only 19/22/26LV2***)

Image shown may differ from your TV.



AC/DC Adaptor -



Connect the antenna cable to the antenna input port on the TV.

Connect the AC/DC adapter plug to the power input jack on the TV.

Connect the power cord to the AC/DC adapter first, then plug the power cord into the wall power outlet.

WARNING

You need to enable easy access for connecting and disconnecting electric cables fed from the mains.

KENSINGTON SECURITY SYSTEM

Image shown may differ from your TV.

This feature is not available for all models.

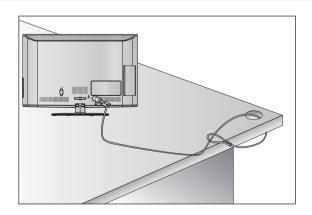
The TV is equipped with a Kensington Security System connector on the back panel. Connect the Kensington Security System cable as shown below.

For the detailed installation and use of the Kensington Security System, refer to the user's guide provided with the Kensington Security System.

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

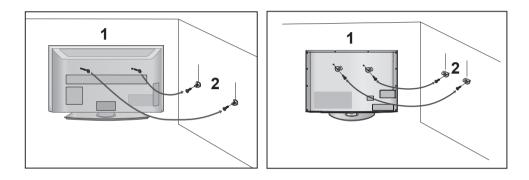
NOTE

- The Kensington Security System is an optional accessory.
- If the TV feels cold to the touch, there may be a small "flicker" when when it is turned on. This is normal, there is nothing wrong with TV.
- Some minute dot defects may be visible on the screen, appearing as tiny red, green, or blue spots. However, they have no adverse effect on the monitor's performance.
- Avoid touching the screen or holding your finger(s) against it for long periods of time.
 Doing so may produce some temporary distortion effects on the screen.



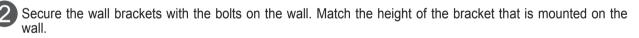
CAREFUL INSTALLATION ADVICE

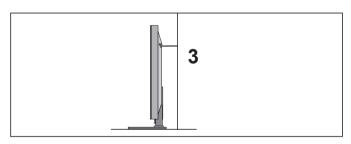
- You should purchase necessary components to fix the TV safety and secure to the wall from the market.
- Position the TV close to the wall to avoid the possibility of it falling when pushed.
- The instructions shown below are a safer way to set up the TV, by fixing it to the wall, avoiding the possibility 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.





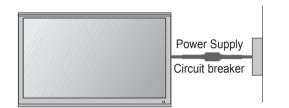
Use a sturdy rope to tie the product for alignment. It is safer to tie the rope so it becomes horizontal between the wall and the product.

- ▶ When moving the TV undo the cords first.
- ▶ Use a platform or cabinet strong 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.

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.

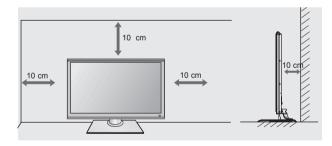
Do not try to earth the TV by connecting it to telephone wires, lightening rods or gas pipes.



- 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.

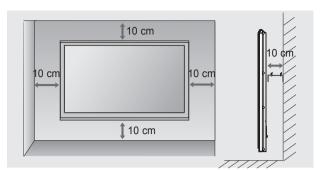
DESKTOP PEDESTAL INSTALLATION

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



WALL MOUNT : HORIZONTAL INSTALLATION

- We recommend the use of a LG Brand wall mounting bracket when mounting the TV to a wall.
- We recommend that you purchase a wall mounting bracket which supports VESA standard.
- LG recommends that wall mounting be performed by a qualified professional installer.



- Should Install wall mount on a solid wall perpendicular to the floor.
- Should use a special wall mount, if you want to install it to ceiling or slanted wall.
- The surface that wall mount is to be mounted on should be of sufficient strength to support the weight of TV set; e.g. concrete, natural rock, brick and hollow block.
- Installing screw type and length depends on the wall mount used. Further information, refer to the instructions included with the mount.
- LG is not liable for any accidents or damage to property or TV due to incorrect installation:
 - Where a non-compliant VESA wall mount is used.
 - I Incorrect fastening of screws to surface which may cause TV to fall and cause personal injury
 - Not following the recommended Installation method.

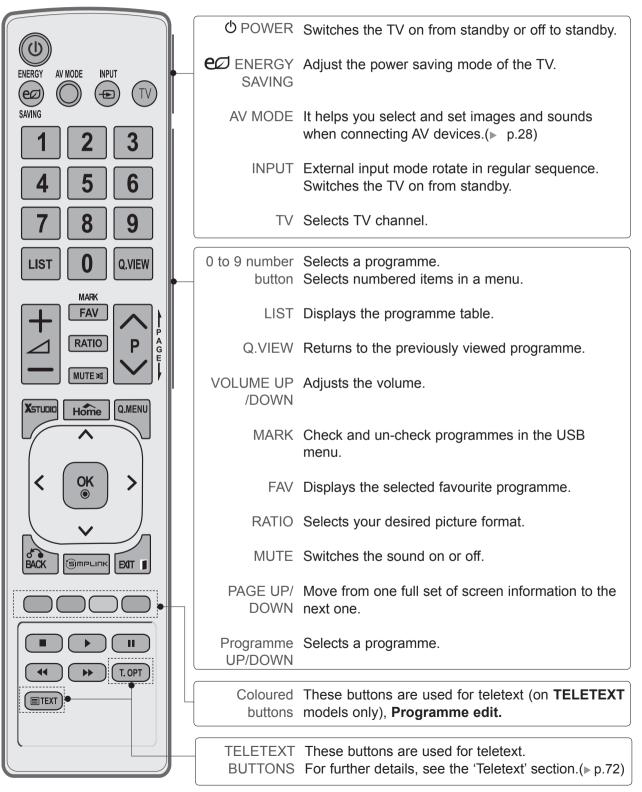


Model	VESA (A * B)	Standard Screw	Quantity
22LK3**	100 * 100	M4	4
26LK3**	200 * 100	M4	4
32LK3**	200 * 100	M4	4
32LK4**	200 * 100	M4	4
42LK4**	200 * 200	M6	4
19LV2***	100 * 100	M4	4
22LV2***	100 * 100	M4	4
26LV2***	100 * 100	M4	4
32LV2***	200 * 100	M4	4
32LV3***	200 * 100	M4	4
42LV3***	400 * 400	M4	4

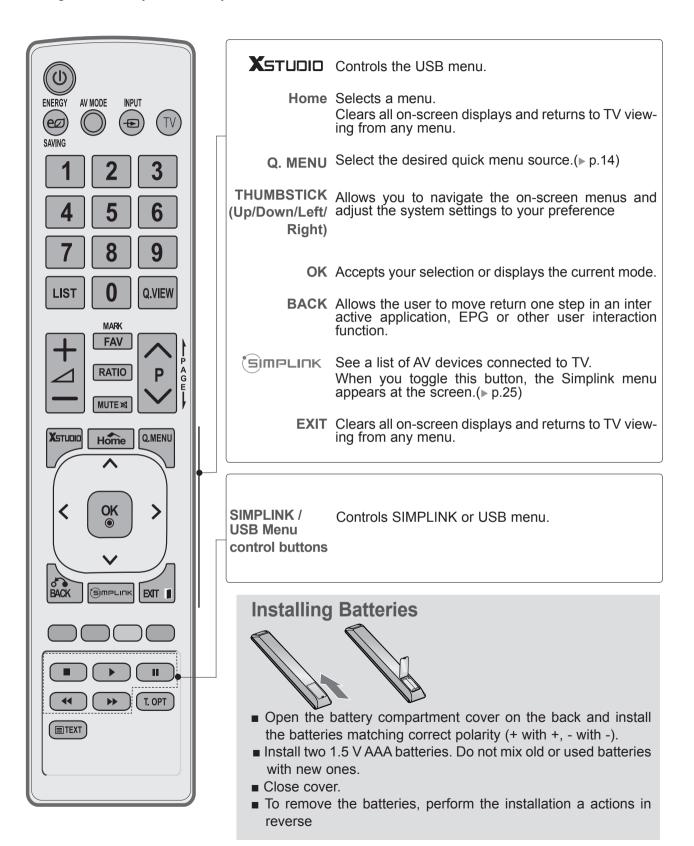
REMOTE CONTROL KEY FUNCTION

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

Image shown may differ from your TV.



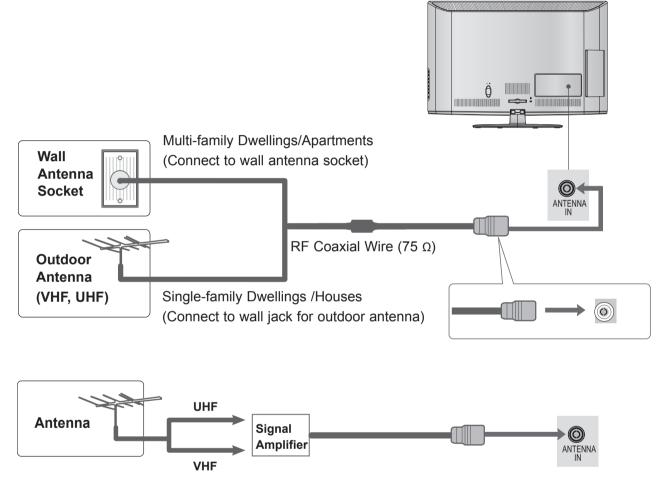
■ Image shown may differ from your TV.



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

ANTENNA CONNECTION

- For optimum picture quality, adjust antenna direction.
- An antenna cable and converter are not supplied.



- 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 cord until you have finished connecting all equipment.
- This section on EXTERNAL EQUIPMENT SETUP mainly uses diagrams for the 26/32LK3** models.
- Image shown may differ from your TV.

CONNECTING WITH A COMPONENT CABLE

1

Connect the video outputs (Y, PB, PR) of the external equipment (digital set-top box, DVD, etc.) to the **COMPONENT IN VIDEO** jacks on the TV.

2

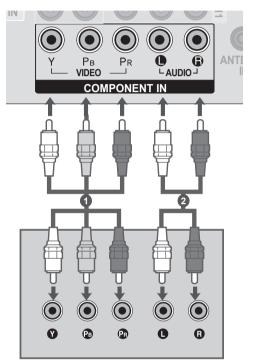
3

4

Connect the audio outputs (L, R) of the external equipment (digital set-top box, DVD, etc.) to the **COMPONENT IN AUDIO** jacks on the TV.

Turn on the external equipment. (Refer to the external equipment's manual for operating instructions.)

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



Signal	Component	HDMI
480i/576i	0	Х
480p/576p	Ο	0
720p/1080i	0	0
1080p	O (50/60Hz only)	O (24Hz/30Hz/50Hz/60Hz)

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	PB	PR
Video output ports	Y	B-Y	R-Y
on DVD player	Y	Cb	Cr
	Y	Pb	Pr

CONNECTING WITH A HDMI CABLE

Connect the HDMI output of the external equip-1 ment (digital set-top box, DVD, etc.) to HDMI/DVI RGB IN (PC IN 1, HDMI/DVI IN 2 (Except 22LK3**) or HDMI IN 3 (Only 32/42LK4**, 32LV2***) jack on the TV. 2 1 (2)Turn on the external equipment. COMPONENT IN Select HDMI1, HDMI2 (Except for 22LK3**) or (3)HDMI3 (Only 32/42LK4**, 32LV2***) input source using the **INPUT** button on the remote control.

- Check that your HDMI cable is High Speed HDMI Cable. If the HDMI cables are not High Speed HDMI Cable, flickering or no screen display can result. Please use the High Speed HDMI Cable.
- HDMI mode supports PCM audio format only.
- Audio format was reseted to Dolby/DTS/Bitstrem in DVD Player or STB, it should be changed to PCM.
- ▶ We recommend using under 10m of the HDMI cable. When using over the length, connect an amplifier or repeater.
- ▶ If the DVD does not support Auto HDMI, you must set the output resolution appropriately.

AUDIO IN (RGB/DVI)

AUDIO

HDMI-DTV OUTPUT

CONNECTING WITH A HDMI TO DVI CABLE

- Connect the digital set-top box or the DVI output of the PC to **HDMI/DVI IN 1** jack on the TV.
- 2

(1)

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

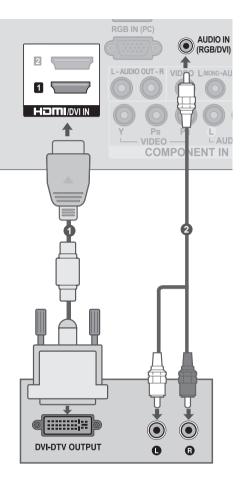
3

Turn on the digital set-top box or the PC and the TV. (Refer to the digital set-top box or the PC

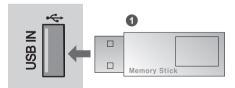
manual for operating instructions.)

4

Select **HDMI1** input source using the **INPUT** button on the remote control.



USB SETUP





Connect the USB device to the $\ensuremath{\text{USB}}$ IN jack on the TV.

2

After connecting the USB IN jack, you use the USB function. (> p.31)

CONNECTING WITH A RCA CABLE

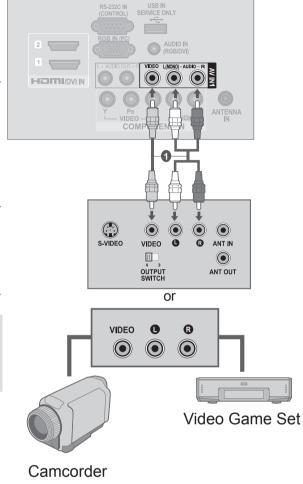
- Connect the **AUDIO/VIDEO** jacks between TV and VCR or external equipment. Match the jack colours (Video = yellow, Audio Left = white, and Audio Right = red)
- 2 Insert a video tape into the VCR and press PLAY on the VCR. (Refer to the VCR owner's manual.)

Or, Operate the corresponding external equipment.

(Refer to external equipment operating guide.)

Select **AV1** input source using the **INPUT** button on the remote control.

If connected to **AV IN2**, select **AV2** input source.



NOTE

3

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 RF CABLE

■ To avoid picture noise (interference), allow adequate distance between the VCR and TV.



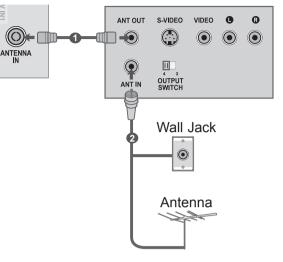
Connect the **ANT OUT** socket of the VCR to the **ANTENNA IN** socket on the TV.



3

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.



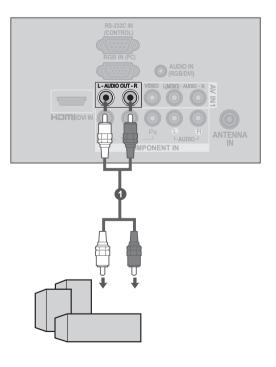
EXTERNAL STEREO SETUP

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



Connect the input jack of the stereo amplifier to the **AUDIO OUT** jacks on the TV.

2 Set up your speakers through your analog stereo amplifier, according to the instructions provided with the amplifier.



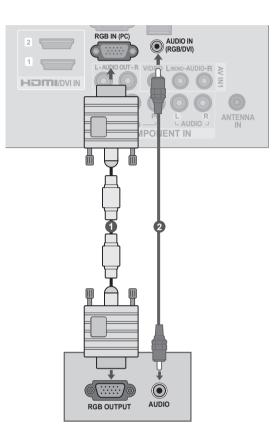
NOTE

When connecting with external audio equipments, such as amplifiers or speakers, please turn the TV speakers off.(►65)

CONNECTING WITH A D-SUB 15 PIN CABLE

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

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



SUPPORTED DISPLAY RESOLUTION

RGB-PC mode

HDMI/DTV n	node
------------	------

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
1280x1024	63.668	59.895
1920x1080	66.587	59.934

only 32/42LK4**, 22LV2***, 42LV3***

Resolution	Horizontal Frequency(kHz)	Vertical Frequency(Hz)		
720x480	31.47	59.94		
720x480	31.50	60.00		
720x576	31.25	50.00		
1280x720	44.96	59.94		
1280x720	45.00	60.00		
1280x720	37.50	50.00		
1920x1080	33.72	59.94		
1920x1080	33.75	60.00		
1920x1080	28.125	50.00		
1920x1080	67.432	59.94		
1920x1080	67.50	60.00		
1920x1080	56.25	50.00		
1920x1080	27.00	24.00		
1920x1080	33.75	30.00		

NOTE

- 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.
- 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.

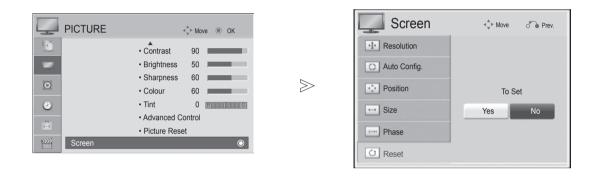
- ► We recommend using 1920x1080, 60 Hz(Only 32/42LK4**, 22LV2***, 42LV3***), 1360x768, 60 Hz(Except 32/42LK4**, 22LV2***, 42LV3***) for the PC mode, this should provide the best picture quality.
- If the resolution of PC is over SXGA, there will be no picture on the TV.(Only HD Models)
- Connect the audio cable from the PC to the Audio input on the TV.(Audio cables are not included with the TV).
- ▶ 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.

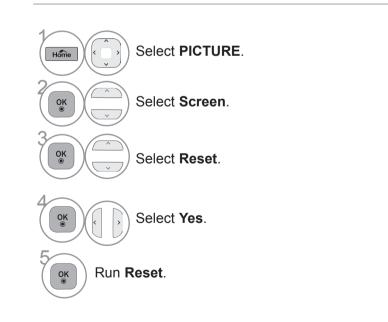
SCREEN SETUP FOR PC MODE

SCREEN RESET

Returns Position, Size and Phase to the factory default settings.

This function works in the following mode: Component(Except 480i, 576i), RGB.





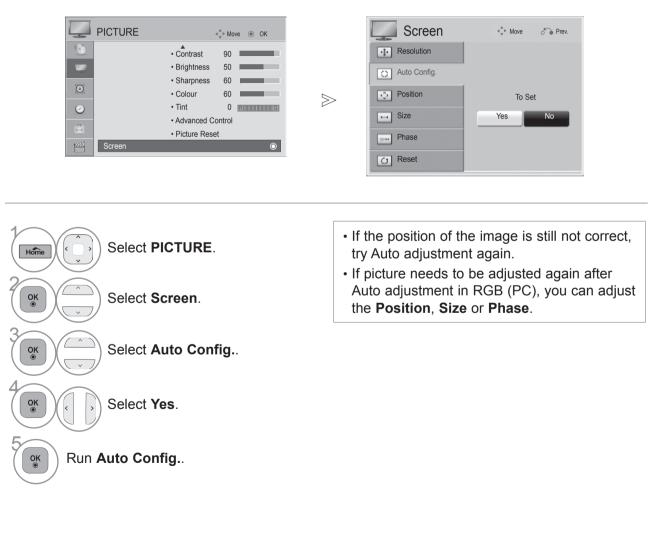
- Press the Home/EXIT button to return to normal TV viewing.
- Press the BACK button to move to the previous menu screen.

AUTO CONFIGURE (RGB [PC] MODE ONLY)

Automatically adjust the 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, size and phase The displayed image will be unstable for a few seconds while the auto configuration is in progress.



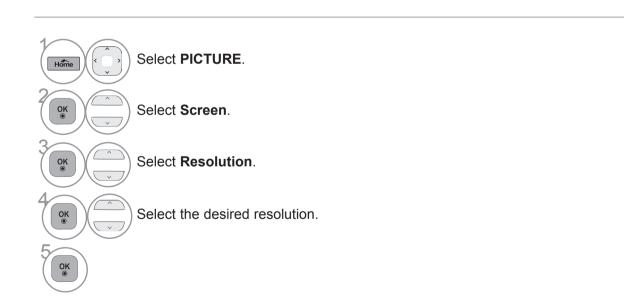
- Press the Home/EXIT button to return to normal TV viewing.
- Press the **BACK** button to move to the previous menu screen.

SELECTING RESOLUTION

To view a normal picture, match the resolution of RGB mode at TV and selection at PC.

This function works in the following mode: RGB[PC] (1024x768, 1280x768, 1360x768)

	⊲⊸⊨ Move (●) OK		Screen	<► Move of Prev.
<u>()</u>	Contrast 90			✓ 1024 x 768
	Brightness 50		Auto Config.	1280 x 768
O	Sharpness 60 Colour 60			1360 x 768
0	• Tint 0 Rimining	\gg	Position	
	Advanced Control		↔ Size	
	Picture Reset		Phase	
Screen	٥	_		
			C Reset	

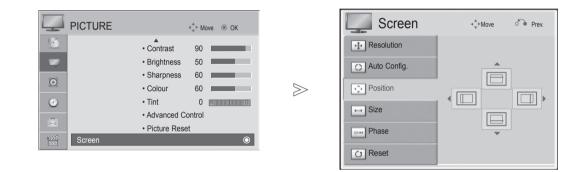


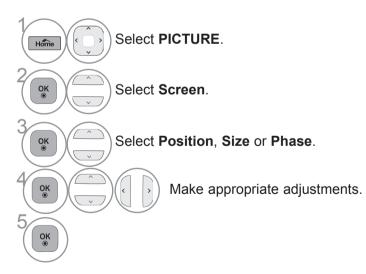
- Press the Home/EXIT button to return to normal TV viewing.
- Press the **BACK** button to move to the previous menu screen.

ADJUSTMENT FOR SCREEN POSITION, SIZE, PHASE

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

Position operates in Component(except 480i, 576i), RGB mode. **Size, Phase** operate only in RGB mode.





- Press the Home/EXIT button to return to normal TV viewing.
- Press the **BACK** button to move to the previous menu screen.

WATCHING TV / PROGRAMME CONTROL

TURNING ON THE TV

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

1	
U	

Firstly, connect the power cord correctly. At this stage, the TV switches to standby mode.

In standby mode to turn TV on, press the O / I, **INPUT** or **P** $\land \lor$ button on the TV or press the **POWER**, **INPUT**, **P** $\land \lor$ or **NUMBER** button on the remote control and the TV will switch on.

INITIALIZING SETUP

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

Note:

1

1

- a.If you close without completing the initial setting, the Initial Setting menu can be displayed again.
- b. "Store Demo" mode is only for shop display and not for general customer use.
- c. "Home Use" mode is the optimal setting for home environments, and is the TV's default mode.
- d."Store Demo" mode is the optimal setting for store environments. If a user modifies image quality data, "Store Demo" mode initializes the product to the image quality set by us after a certain period of time.
- e. The mode (Home Use, Store Demo) can be changed by executing Mode Setting in the OPTION menu.

PROGRAMME SELECTION

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

VOLUME ADJUSTMENT

Press the \bigtriangleup + or - button to adjust the volume.

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

You can cancel this function by pressing the **MUTE**, \angle + , - or **AV MODE** button.

QUICK MENU

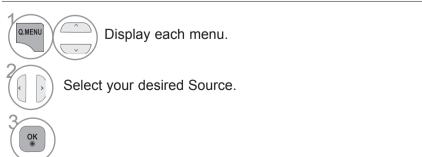
Your TV's OSD (On Screen Display) may differ slightly from that shown in this manual. Q.Menu (Quick Menu) is a menu of features which users might use frequently.

• Aspect Ratio: Selects your desired picture format.

For Zoom Setting, select 16:9, Original, 4:3, 14:9, Zoom and Cinema Zoom in Ratio Menu. After completing Zoom Setting, the display goes back to Q.Menu.

- Clear Voice II : By differentiating the human sound range from others, it helps users listen to human voices better
- 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.
- Audio : Selects the sound output.
- Sleep Timer : Sets the sleep timer.
- Favourite : Selects the favourite programme.
- USB Device : Selects "Eject" in order to eject USB device.

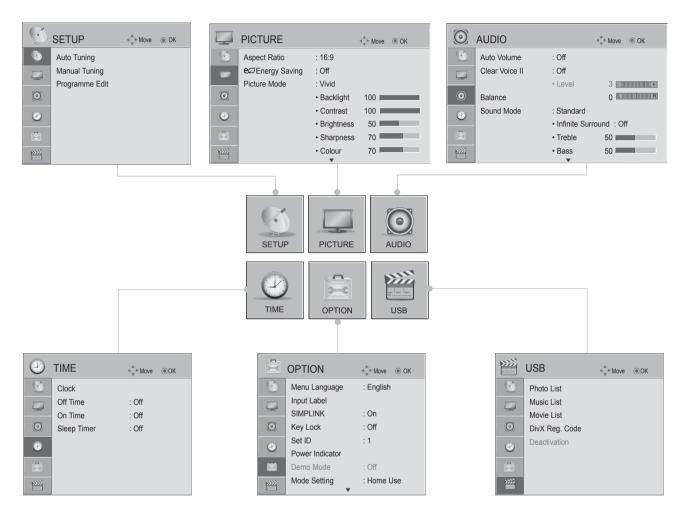
Q. Menu	
i Aspect Ratio	◀ 16:9 ►
	Zoom Setting
Clear Voicell	3
Picture Mode	Standard
Sound Mode	Standard
(((iii)) Audio	Mono
⊡ ^{z^z} Sleep Timer ■	Off
PR Favourite	Off
USB Device	Eject
Clo	ose

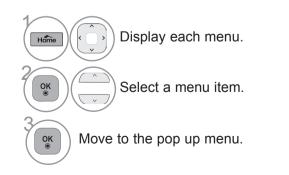


ON SCREEN MENUS SELECTION AND ADJUSTMENT

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

Image shown may differ from your TV.





- Press the **Home/EXIT** button to return to normal TV viewing.
- Press the **BACK** button to move to the previous menu screen.

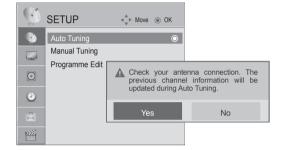
AUTO PROGRAMME TUNING

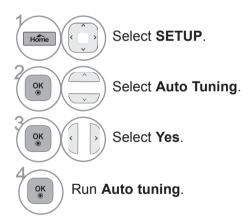
Use this to automatically find and store all available programmes.

When you start auto programming, all previously stored service information will be deleted.







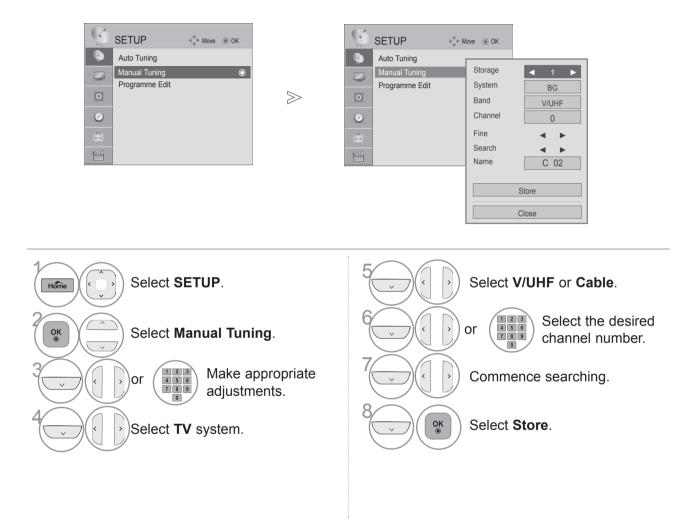


• If you wish to keep on auto tuning select Yes using the < >button. Then, press the OK button. Otherwise select No.

- Press the Home/EXIT button to return to normal TV viewing.
- Press the BACK button to move to the previous menu screen.

MANUAL PROGRAMME TUNING

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

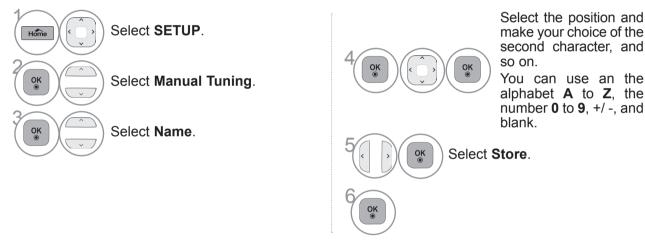


- Press the Home/EXIT button to return to normal TV viewing.
- Press the **BACK** button to move to the previous menu screen.
- BG : PAL B/G, SECAM B/G (Europe / East Europe / Asia / NewZealand / M.East / Africa / Australia)
 I : PAL I/II (U.K. / Ireland / Hong Kong / South Africa)
 DK : PAL D/K, SECAM D/K (East Europe / China / Africa / CIS)
 M : NTSC-M (USA / Korea / Philippines), PAL-M(South America)
- To store another channel, repeat steps 3 to 8.

Auto Tuning Manual Tuning Programme Edit	\geqslant	SETUP Auto Tuning Manual Tuning Programme Edit C C C C C C C C C C C C C	Move © OK Storage System Band Channel Fine Search Name	1 BG V/UHF 0 C 02
------------------------------------------------------	-------------	--------------------------------------------------------------------------------------------------------------------------	-----------------------------------------------------------------------------	-------------------------------

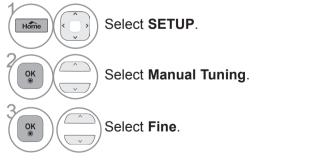
Assigning a station name

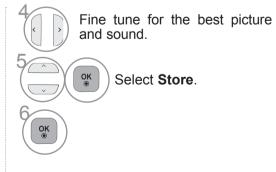
You can assign a station name with five characters to each programme number.



Fine Tuning

Normally fine tuning is only necessary if reception is poor.





Close

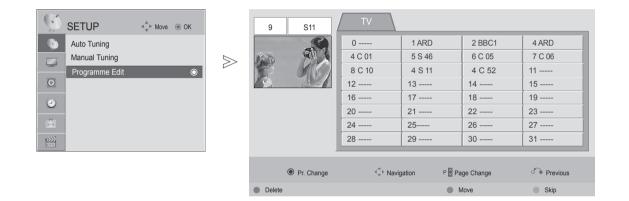
- Press the Home/EXIT button to return to normal TV viewing.
- Press the **BACK** button to move to the previous menu screen.

PROGRAMME EDIT

When a programme number is skipped, it means that you will be unable to select it using $P \land \lor$ button during 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 menu.

This function enables you to skip the stored programmes.





• Press the Home/EXIT button to return to normal TV viewing.

• Press the **BACK** button to move to the previous menu screen.

This function enables you to delete or skip the stored programmes. You can also move some channels and use other programme numbers.

Deleting a programme



RED

Select a programme number to be deleted.

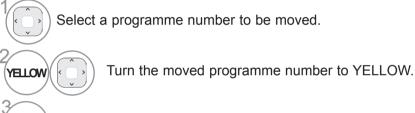
• The selected programme is deleted, all the following programmes are shifted up one.

Turn the deleted programme number to RED.



Release the deleted programme.

Moving a programme



YELLOW Release the moved programme.

Skipping a programme number



Select a programme number to be skipped.

E Turn the skipped programme number to BLUE.

BLUE Release the skipped programme.

- When a programme number is skipped it means that you will be unable to select it using the **P** ∧ ∨ button during normal TV viewing.
- If you wish to select a skipped programme, directly enter the programme number with the NUMBER buttons or select it in the programme edit.

SELECTING THE PROGRAMME LIST

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



Displaying programme LIST



Display the Programme List.

- You may find some blue programmes. These have been set up to be skipped by auto programming or in the programme edit mode.
- 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.

Switch to the chosen programme number.

Paging through a programme list



Turn the pages.



Return to normal TV viewing.

FAVOURITE PROGRAMME SETUP

Selecting favourite programme

Favorite programmes is a convenient feature that lets you quickly scan up to programmes of your choice without having to wait for the TV to scan through all the in-between programmes.

Q. Menu		Or (123) programme.
Aspect Ratio	16:9	programme.
	Zoom Setting	2 Select Favourite
Clear Voicell	3	Select Favourite.
Picture Mode	Standard	
Sound Mode	Standard	3
(((O)) Audio	Mono	Select Favourite .
Sleep Timer	Off	
PR Favourite	◄ Favourite ►	(Q.MENU) Return to TV viewing.
	Eject	
	Close	

• This will automatically include the selected programme into your favourite programme list.

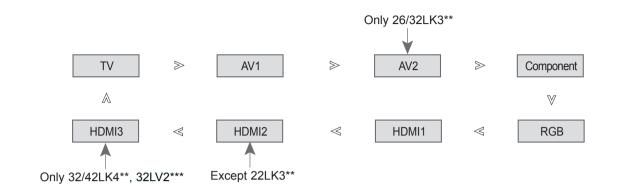
Displaying the favourite programme list

🖤 Fav	ourite List	
	1 C 01	
ĕ	2 C 05	
Ľ	3 BLN 2	
		ð Exit



Display the Favourite Programme List.

INPUT LIST

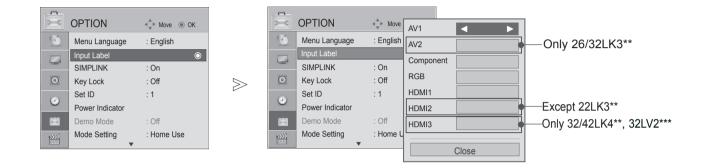


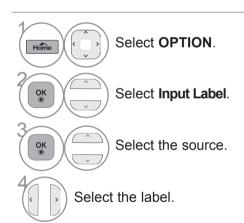


- TV : Select it when watching the TV.
- AV : Select it when watching the VCR or external equipment.
- Component : Select it when using DVD or Digital set-top box depends on connector.
- RGB : Select it when using PC depends on connector.
- HDMI : Select it when using DVD or Digital set-top box depend on connector.

INPUT LABEL

Selects a label for each input source.





• Press the Home/EXIT button to return to normal TV viewing.

• Press the **BACK** button to move to the previous menu screen.

SIMPLINK

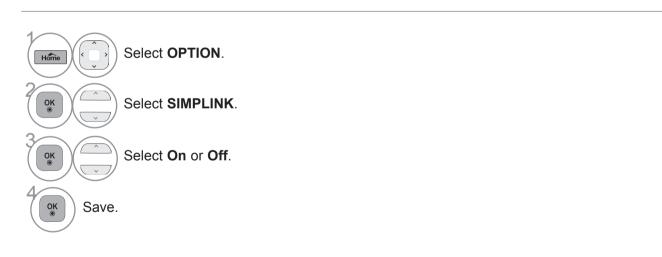
This function operates only with devices with the SIMPLINK logo. Please check the SIMPLINK logo.

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".

	م پَ► Move () OK	OPTION
Menu Language	: English	Menu Language : English
Input Label		Input Label
SIMPLINK	: On 🔘	SIMPLINK : On Off
Key Lock	: Off	Key Lock : Off On
Set ID	: 1	Set ID : 1
Power Indicator		Power Indicator
Demo Mode	: Off	Demo Mode : Off
Mode Setting	: Home Use	Mode Setting : Home Use
	▼	



- Press the Home/EXIT button to return to normal TV viewing.
- Press the **BACK** button to move to the previous menu screen.

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.
- 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.

SIMPLINK FUNCTIONS

Disc playback

Control connected AV devices by pressing the \land / \lor / \langle / \rangle , OK, \blacktriangleright , \blacksquare , II, $\blacktriangleleft \triangleleft$ and $\blacktriangleright \triangleright$ buttons.

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

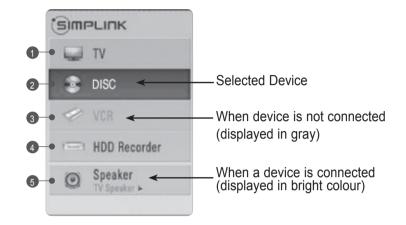
When the equipment with Simplink function connected HDMI terminal starts to play, The TV will change automatically to turn on mode.

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

Note: To operate SIMPLINK, an High Speed HDMI Cable with *CEC function should be used. (*CEC: Consumer Electronics Control).

SIMPLINK MENU

Press the $\land \lor \lt \Rightarrow$ button and then OK button to select the desired SIMPLINK source.

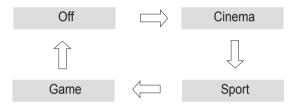


- **1 TV viewing :** Switch to the previous TV programme regardless of the current mode.
- DISC playback : Select and play connected discs.
 When multiple discs are available, the titles of discs are conveniently displayed at the bottom of the screen.
- **VCR playback :** Play and control the connected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

AV MODE

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

Off	Disables the AV MODE.
Cinema	Optimizes video and audio for watching movies.
Sport	Optimizes video and audio for watching sports events.
Game	Optimizes video and audio for playing games.





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

- If you select **Cinema** in AV mode, **Cinema** 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.

INITIALIZING (RESET TO ORIGINAL FACTORY SETTINGS)

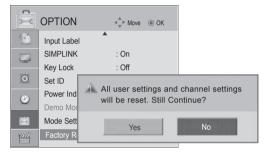
Use to quickly reset all the menu options to their original factory preset values.

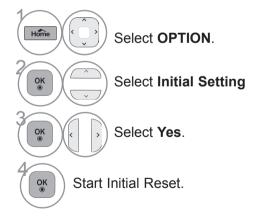
This function deletes all TV programmes.

When the Factory Reset is completed, you must restart the Initializing setup.

	OPTION	▲ Move ● OK
S	Input Label	
	SIMPLINK	: On
-	Key Lock	: Off
0	Set ID	:1
(2)	Power Indicator	
	Demo Mode	: Off
	Mode Setting	: Home Use
	Factory Reset	\odot

 \gg





- Press the Home/EXIT button to return to normal TV viewing.
- Press the **BACK** button to move to the previous menu screen.

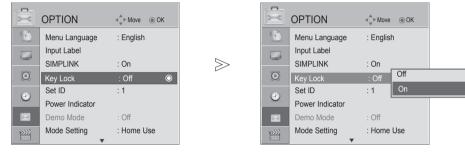
KEY LOCK

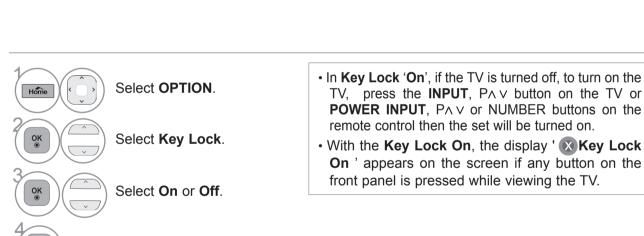
Save.

OK

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

This feature can be used to prevent unauthorized viewing.



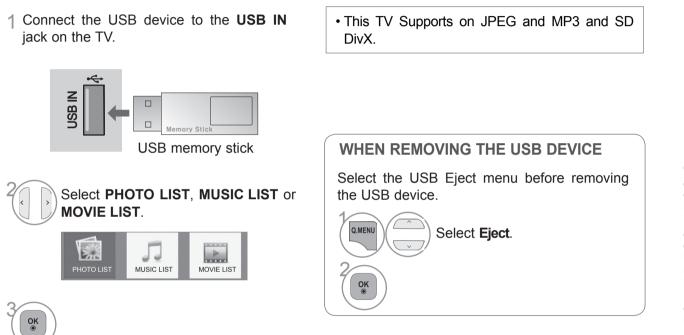


- Press the Home/EXIT button to return to normal TV viewing.
- Press the **BACK** button to move to the previous menu screen.

WHEN CONNECTING A USB DEVICE

When you connect a USB device, this pop up menu is displayed, automatically. "POP UP MENU" will not be displayed while the OSD including Menu is activated. In USB device, you can not add a new folder or delete the existing folder.

Image shown may differ from your TV.



PRECAUTIONS WHEN USING THE USB DEVICE

- ► Only a USB storage device is recognizable.
- ▶ 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.
- ▶ 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 FAT16, FAT32, NTFS 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. Data in a USB storage device cannot be deleted in the NTFS file system.
- 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.
- ▶ Maximum of 999 files and 200 folders can be recognized.
- ► Data in a USB storage device cannot be aligned.
- ▶ Up to 128 English characters can be recognized as a file name.
- Please back up 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 USB is connected in Standby Mode, specific hard disk will automatically be loaded when the TV is turned on.
- ▶ The recommended capacity is 1 TB or less for a USB external hard disk and 32 GB or less for USB memory.
- TV need more time to detect if the storage size is bigger. If the USB memory is connected in Standby Mode, power on time would be longer than without memory.
- ► Any device with more than the recommended capacity may not work properly.
- If a USB external hard disk with a "Energy Saving" function does not work, turn the hard disk off and on again to make it work properly.

33

PHOTO LIST

You can view photo files on USB storage device.

The On Screen Display may be different from your TV. Images are an example to assist with the TV operation. When you are watching the photo by the Photo List function, you can not change the picture mode.

PHOTO(*.JPEG) supporting file Baseline: Max 4800 x no limit

Min 64 X 64

- Not support to progressive jpeg.
- You can play JPEG files only.
- Only baseline scan is supported among JPEG (SOF0, SOF1 only).
- Non-supported files are displayed in the form of bitmap.

SCREEN COMPONENTS

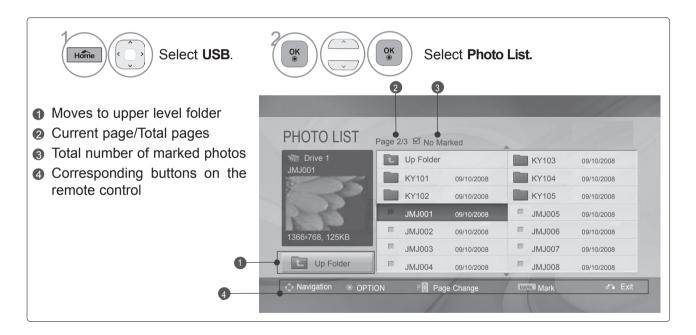


PHOTO SELECTION AND POPUP MENU



 \mathbb{V}

Drive 1	E	Up Fold	er	KR103 09/*	10/2008	► View : Display the selected item.
001		KR101	09/10/2008	-	10/2008	Mark All : Mark all photos on the screen.
		KR102	09/10/2008	1366x768, 125KB	/2008	► Unmark All : Deselect all marked photos.
17 1	E	JMJ001	09/10/2008	View O	/2008	
6×768. 125KB	=	JMJ002	09/10/2008	Mark All	/2008	Delete : Delete the selected photo item.
0×766, 125KB	=	JMJ003	09/10/2008	Delete	/2008	
Up Folder		JMJ004	09/10/2008	Close	/2008	Close : Close the pop-up menu.

Select the target folder or drive.

OK ● Select the desired PopUp menu.

• Use the **P**∧ ∨ button to navigation in the photo page.

• Use the **MARK** button to mark or unmark a photo. When one or more photos are marked, you can view each marked photo or a slide show of the marked photos. If no photos are marked, you can view every individual photo in the folder or a slide show of all photos in the folder.

• Press the **BACK** button to return to normal TV viewing.

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.

PHOTO LIST	Page 2	/3 ⊠ No N	larked			
Trive 1	t	Up Fold	er		KR103	09/10/2008
JMJ001		KR101	09/10/2008		KR104	09/10/2008
		KR102	09/10/2008		KR105	09/10/2008
244	E	JMJ001	09/10/2008	Π	JMJ005	09/10/2008
	=	JMJ002	09/10/2008	Π	JMJ006	09/10/2008
1366×768, 125KB	=	JMJ003	09/10/2008	П	JMJ007	09/10/2008
L Up Folder	=	JMJ004	09/10/2008	Π	JMJ008	09/10/2008
♦ Navigation	ΓΙΟΝ	P 🗑 Pag	ge Change	MAR	Mark	🐢 Exit

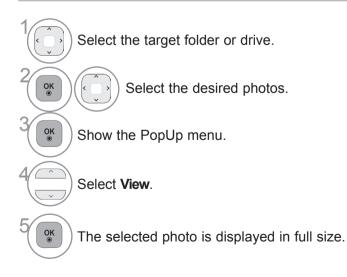


PHOTO LIST	Page 2/	3 ⊠ No Ma	arked		
Trive 1	Ł	Up Folde	r	KR103 09/*	0/2008
JMJ001		KR101	09/10/2008	KR104 09/*	0/2008
		KR102	09/10/2008	1366x768, 125KB	/2008
2-5-5	E	JMJ001	09/10/2008	View O	/2008
1366×768, 125KB		JMJ002	09/10/2008	Mark All	/2008
1300*700, 125KB	=	JMJ003	09/10/2008	Delete	/2008
L Up Folder	=	JMJ004	09/10/2008	Close	/2008
	ION	P 🕅 Page	e Change	MARK Mark	🐢 Exit

 \gg



The aspect ratio of a photo may change the size of the photo displayed on the screen in full size. Press the **BACK** button to move to the previous menu screen.



		ct the Slideshow , BGM , ¹ (Rotate), te or Hide.
L 1/17 > Sideshow > BGM > O Delete Option Hide	photo. • Use ∢ > bu	utton to select the previous or next utton to select and control the menu I-sized screen.
 Slideshow : When no picture is selected, folder are displayed during slide show. If ed, those photos are displayed in a slide Set the time interval of the slide show BGM (Background Music) : Listen to must in full size. Set the Music Folder for BGM in Op function. U (Rotate) : Rotate photos. Rotates the photo 90°, 180°, 270° 	some photos are select- show. ow in Option . sic while viewing photos tions before using this	
► Delete : Delete photos.		
 Option : Set values for Slide Speed and Use A V<> button and OK button to Then go to OK and press OK to sa You cannot change Music Folder Hide : Hide the menu on the full-sized so 	set values. ve the settings. while BGM is playing.	Press ◀ ► to set the time interval between slides. Slide Speed Fast Music Folder Music OK Cancel
To see the menu again on the full-si button to display.		

MUSIC LIST

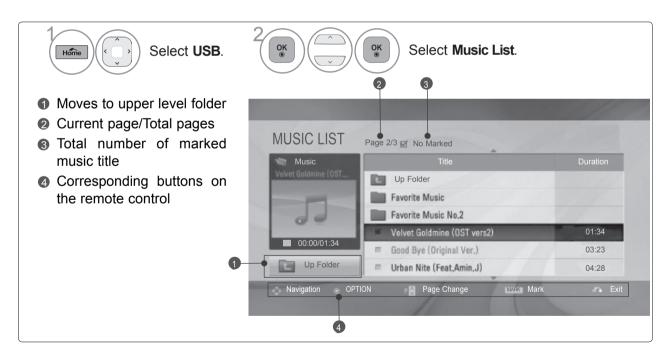
Purchased music files(*.MP3) may contain copyright restrictions. Playback of these files may not be supported by this model.

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

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

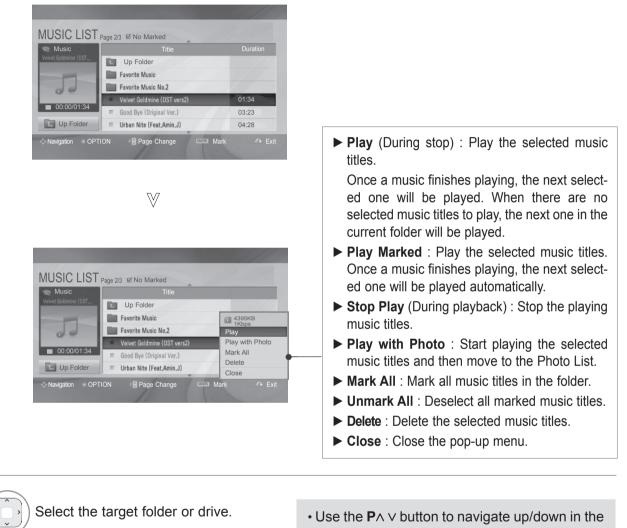
MUSIC (*.MP3) supporting file Bit rate : 32 k to 320kbps Sampling rate MPEG1 layer 3 : 32 k to 48 kHz

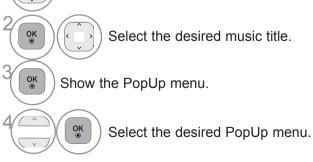
SCREEN COMPONENTS



MUSIC SELECTION AND POPUP MENU

As shown, up to 6 music titles are listed per page.





- music page.
- Use MARK button to mark or unmark a music. When one or more music files are marked, the marked music title will be played in sequence. For example, if you want to listen to only one music repeatedly, just mark the music only and play it. If no music is marked, all the music in the folder will be played in sequence.

Press the BACK button to return to normal TV viewing.

- 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.

Wusic Velvete Goldmine (DST vers2) ► 0:27 / 3:67

NOTE

- \blacktriangleright When a music file is played, \mathcal{D} is displayed behind the title.
- ► A damaged or corrupted music does not play but displays 00:00 in playtime.
- A music downloaded from a paid service with copyright protection does not start but displays inappropriate information in playtime.
- ▶ If you press OK, buttons, screen saver is stopped.
- ▶ This TV can not play music files less than 32 Kbytes.
- ► The PLAY(►), Pause(II), ■, ►►, ◄< buttons on the remote control are also available in this mode.
- ▶ You can use the ▶▶ button to select the next music and the ◀◀ button to select the previous music.

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.

Supports up to four drives.

MOVIE(*.avi/*.DivX) supporting file

Video format : MPEG1 , MPEG2, MPEG4 (Doesn't support Microsoft MPEG4-V2, V3), DivX 3.xx , DivX 4.xx, DivX 5.xx , DivX VOD (DRM) , XviD, DivX 6.xx(Playback)

Audio format : Mpeg, Mp3, PCM, Dolby Digital, AC3.

Sampling frequency : 32 k to 48 kHz

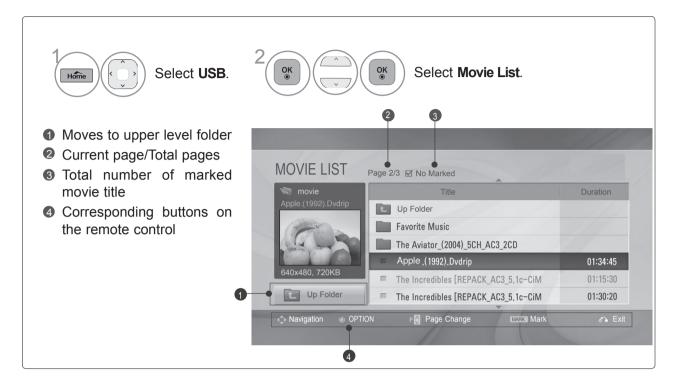
Bit rate : 32 k to 320 kbps

Subtitle format : *.smi/ *.srt/ *.sub(MicroDVD, SubViewer 2.0)/ *.ass/ *.ssa/*.txt(DVD Subtitle System)

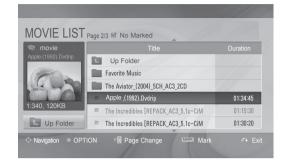
- Time information in an external subtitle file should be arranged in ascending order to be played.
- A DivX movie file and its subtitle file must be located in the same folder.
- A video file name and its subtitle file name must be identical for it to be displayed.
- If the video and audio structure of recorded file is not interleaved, either video or audio is outputted.
- Playing a video via a USB connection that does not support high speed may not work properly.
- USB storage devices below USB 2.0 are supported as well. But they may not work properly in the movie list
- DivX may not be played depending on its types or recording methods.
- Max bitrate of playable DivX is 6 Mbps.
- Maximum FPS (Frame Per Second) can be reached only at SD level. FPS is 25 FPS (720*576) or 30 FPS (720*480) depending on Resolution.
- Files of 25 FPS or 30 FPS of higher may not be played properly.
- If the file is recorded with GMC, the unit supports only 1 point of recorded level. (GMC is the acronym for Global Motion Compensation, a technique used to compensate MPEG Video files.)
- Use the left/right (< / >) keys to move to a specific frame forward or backward while playing a movie. (The left/right (< / >) keys may not work properly for some files while playing a movie.)

Extension name	Video Decoder	Audio Codec	Resolution
mpg, mpeg, mpe, vob, dat	MPEG1, MPEG2	AC3,MPEG,MP3,PCM	
Avi, DivX, m4v	MPEG 4-SP, MPEG4-ASP, DivX 3.xx,DivX 4.xx, DivX 5.xx, DivX 6.xx(Playback),Xvid	AC3,MPEG,MP3,PCM	720x576@25p 720x480@30p

SCREEN COMPONENTS



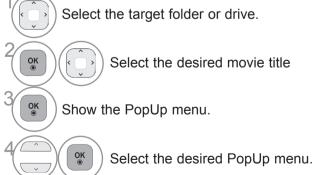
MOVIE SELECTION AND POPUP MENU







- ▶ Play : Play the selected movie titles. DivX Play is executed while screen changes.
- Play Marked : Play the selected movie titles. Once a movie finishes playing, the next selected one will be played automatically.
- Mark Al I : Mark all movie titles in the folder.
- ▶ Unmark AI I : Deselect all marked movie titles.
- Delete : Delete the selected movie titles.
- Close : Close the pop-up menu.



 In the case of files not supported, a message regarding non-supported file is displayed.

• Press the **BACK** button to return to normal TV viewing.

DIVX AUDIO LANGUAGE & SUBTITLE LANGUAGE

Picture Size	◄ Full Screen ►				
Subtitle Language					
Audio Language	1/1				
Subtitle File					
• Language	Latin 1				
• Sync	0				
Position					
	ОК				

Subtitle Language	Support Language
Latin1	French, Spanish, Catalan Basque, Portuguese, Italian, Albanian, Rhaeto- Romanic, Dutch, German, Danish, Swedish, Norwegian, Finnish, Faroese, Icelandic, Irish, Scottish, English
Latin2	Czech, Hungarian, Ploish, Romanian, Croatian, Slovak, Slovenian, Sorvian
Latin4	Estonian, the Baltic languages Latvian(Lettish) and Lithuanian, Greenlandic and Lappish
Latin5	English, Trukish
Cyrillic	Bulgarian, Byelorussian, Macedonian, Russian, Serbian and pre-1990 (no ghe with upturn) Ukrainian
Greek	English, modern Greek
Hebrew	English, modern Hebrew
Chinese	Chinese
Thai	Thai
Arabic	English, Arabic

Select the desired PopUp menu.

Select Picture Size, Subtitle Language, Audio Language, Subtitle, Language, Sync or Position • When DivX is playing, if you press the **RED** button, this message is displayed.

- Press the Home/EXIT button to return to normal TV viewing.
- Press the **BACK** button to move to the previous menu screen.

USING THE REMOTE CONTROL

∢∢/⊳⊳	 When playing, repeatedly, press the REW(<<) button to speed up << -> <<< -> <<<<<<<<><<<<<<><<<<<<><<<<<<><<<<<<<><<<<				
П	During playback, press the Pause(II) button. ■ Still screen is displayed.				
<>	■ When using the 〈 or 〉 button during playback a cursor indicating the position can be viewed on the screen.				
PLAY(►)	Press the PLAY(►) button to return to normal playback.				

DIVX® VOD GUIDE

In order to play purchased or rented DivX® VOD contents, you should register your device with 10 digit DivX registration code from your device at www.divx.com/vod.

USB Photo List Music List Movie List DivX Reg. Col DivX Reg. Col Eactivation Image: Col	- de	≫	USB Photo List Music List Movie List DivX Reg. C Deactivation	Move OK DivX® Video On D Your registration Code is To learn more visit vo Close	s: xxxxxxxxxx		
Select USB. Select DivX Reg. Code. Display DivX Reg. Code. • Press the Home/EXIT button to return to normal TV viewing. • Press the BACK button to move to the previous menu screen.							
DOLBY.		l under license from ademarks of Dolby L		es. "Dolby "and '	the double-D		
 ABOUT DIVX VIDEO: DivX® is a digital video format created by DivX, LLC, a subsidiary of Rovi Corporation. This is an official DivX Certified® device that plays DivX video. Visit divx.com for more information and software tools to convert your files into DivX videos. ABOUT DIVX VIDEO-ON-DEMAND: This DivX Certified® device must be registered in order to play purchased DivX Video-on-Demand (VOD) movies. To obtain your registration code, locate the DivX VOD section in your device setup menu. Go to vod.divx. com for more information on how to complete your registration. "DivX Certified® to play DivX® video, including premium content." DivX®, DivX Certified® and associated logos are trademarks of Rovi Corporation or its subsidiaries and are used under license. Covered by one or more of the following U.S. patents : 7,295,673; 7,460,668; 7,515,710; 7,519,274 							
ONOTE Supported mo	nvie file						

Resolution : under 720 x 480(720x576) WxH pixels. Frame rate : under 30 frames/sec

- ► Video Codec : MPEG1, MPEG2, MPEG4(Doesn't support Microsoft MPEG4-V2, V3), DivX3.xx, DivX4.xx, DivX5.xx, DivX VOD(DRM), XviD, DivX 6.xx(Playback).
- ► When loading, some buttons may not work.
- ► If you use the DivX registration code of another device, the rented or purchased DivX file cannot be played. Therefore always use the DivX registration code assigned to this product.

DIVX® VOD DEREGISTRATION

You should deregister your device with 8 digit DivX deregistration code from your device at www.divx. com/vod.

222 USB USB ▲ Move ● OK Photo List Photo List Music List Music List Movie List Movie List \gg DivX Reg. Code DivX Reg. Code Deactivation ٢ DivX® Video On Demand DivX® Video On Demand This device is deactivated. Do you want to deactivate your device? Your deactivation code : XXXXXXXX \gg To learn more visit vod.divx.com No Select USB. Home OK ● Select Deactivation. OK ⊚ Select Yes. OK

- Press the Home/EXIT button to return to normal TV viewing.
- \bullet Press the BACK button to move to the previous menu screen.

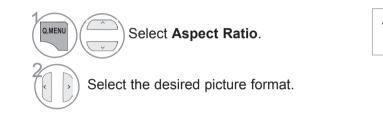
Once the deregistration is executed, you must register your device again to see DivX® VOD contents.

PICTURE CONTROL

PICTURE SIZE (ASPECT RATIO) CONTROL

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

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.



• 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).



Just Scan

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

Note : If there is noise in original Picture, You can see the noise at the edge.



• You can also adjust **Aspect Ratio** in the **PICTURE** or **Q.Menu** menu.

• Original

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



• 4:3

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



• 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.



• Zoom

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.

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

Cinema Zoom1

Choose Cinema Zoom1 when you want to enlarge the picture in correct proportion. Note:When enlarging or reducing the picture, the image may become distorted.



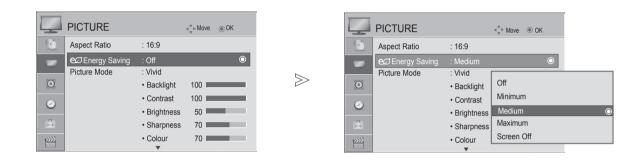
PICTURE CONTROL

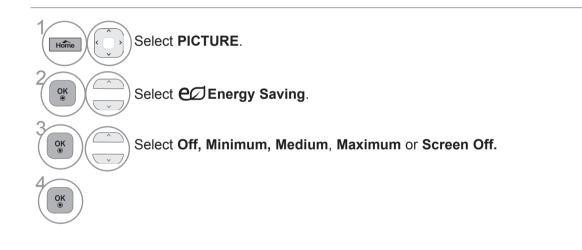
EXAMPLE NERGY SAVING

It reduces the plasma display's power consumption.

The default factory setting complies with the Energy Star requirements and is adjusted to the comfortable level to be viewed at home.

You can increase the brightness of your screen by adjusting the Energy Saving level or by setting the Picture Mode.





• When selecting Screen Off, the screen will be turned off after 3 seconds. In this case, if you want turn the screen on, press any key on the set or the remote control or play the USB.

- If you adjust "Energy Saving-Minimum, Medium, Maximum", Backl ight feature will not work.
- You can also adjust Energy Saving button.
- Press the Home/EXIT button to return to normal TV viewing.
- Press the BACK button to move to the previous menu screen.

PRESET PICTURE SETTINGS

PICTURE MODE-PRESET

Vivid	Strengthen the contrast, brightness, colour and sharpness for vivid picture.
Standard	The most general screen display status.
Natural	The most natural screen display status.
Cinema	Optimizes video for watching movies.
Sport	Optimizes video for watching sports events.
Game	Optimizes video for playing games.

	PICTURE		⊲ ٍ≻ Move (®	OK			PICTURE		∢⊸⊳ Move ⊚ OK	
(Aspect Ratio	: 16:9				6	Aspect Ratio	: 16:9		
	ec Energy Saving	: Off					ec Energy Saving	: Off		
	Picture Mode	: Vivid		\odot			Picture Mode		Vivid	0
0		 Backlight 	100		\geq	\odot		 Backlight 	Standard	
2		Contrast	100			2	-	Contrast		
		 Brightness 	50					Brightnes	Natural	
		Sharpness	70			Ē		Sharpnes	Cinema	
>>>>		Colour	70					Colour	Sport	
200		•				2		•	Game	
									Expert1	

Select PICTURE.

Home

OK ◉

OK ●

OK

Select Picture Mode.

Select Vivid, Standard, Natural, Cinema, Sport or Game.

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

Expert2

• You can also adjust **Picture Mode** in the **Q. Menu**.

- Press the Home/EXIT button to return to normal TV viewing.
- Press the **BACK** 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.

Adjusting the backlight when setting the brightness of the set is recommended.

Contrast

Adjusts the signal level between black and white in the picture.

Brightness

Adjusts the base level of the signal in the picture.

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.

Colour

Adjusts intensity of all colours.

Tint

Adjusts the balance between red and green levels.

	PICTURE		⊲⊸ Move
1.000	Aspect Ratio	: 16:9	
	e Energy Saving	: Off	
	Picture Mode	: Standard	
0		 Backlight 	100
0		 Contrast 	100 <u> </u>
		 Brightness 	50
		 Sharpness 	70
>>>> = = =		Colour	70

Select PICTURE.	Benefits of using Backlight The electricity consumption is reduced by
Select Picture Mode.	up to 60 %. - The black brightness is reduced. (As the black has greater depth, you can enjoy a
Select Vivid, Standard, Natural, Cinema, Sport or Game.	better quality definition.)You can adjust brightness with maintain- ing original signal resolution.
Select Backlight, Contrast, Brightness, Sharpness, Colour or Tint.	
Make appropriate adjustments.	

- Press the Home/EXIT button to return to normal TV viewing.
- Press the **BACK** button to move to the previous menu screen.

NOTE

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

PICTURE IMPROVEMENT TECHNOLOGY

You can calibrate the screen for each Picture Mode or set the video value according to the special video screen.

you can set the video value differently for each input.

To reset to the factory default screen after making adjustment to each video mode, execute the "Picture Reset" function for each Picture Mode.

- PICTURE PICTURE ▲ Move ● OK 🗘 Move 🖲 OK Contrast Contrast 100 Colour Temperature Brightness · Brightness 50 Dynamic Contrast High Sharpness Sharpness 70 \geq Dynamic Colour High Colour Colour 60 Noise Reduction Medium • Tint • Tint 0 R......G 9 0 Gamma Medium Advanced Control Picture Rese Black Level Picture Reset Auto Eve Care Screen »»»» Screen Off Film Mode Off Colour Gamut Wide Ţ Close
- Image shown may differ from your TV.



Select Advanced Control.

Select Cold Gamma, Bl (Refer to p

Home

OK

Select Colour Temperature, Dynamic Contrast, Dynamic Colour, Noise Reduction, Gamma, Black Level, Eye Care, Film Mode, Colour Gamut, Edge Enhancer or OPC. (Refer to p.53 to 54).

Select your desired Source.

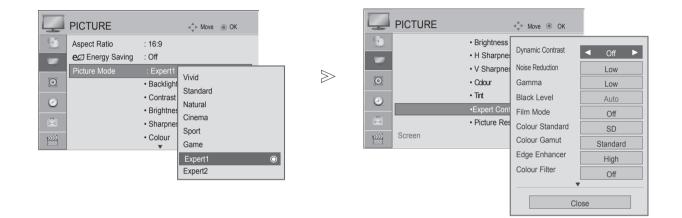
- Press the Home/EXIT button to return to normal TV viewing.
- Press the **BACK** button to move to the previous menu screen.

PICTURE CONTROL

EXPERT PICTURE CONTROL

By segmenting categories, **Expert1** and **Expert2** provide more categories which users can set as they see fit, offering the optimal picture quality for users.

As the detail item for video quality experts to adjust the video precisely using specific videos, this may not be effective for general videos.





- Press the Home/EXIT button to return to normal TV viewing.
- Press the **BACK** button to move to the previous menu screen.

This feature is not available for all models.

Colour Temperature (Warm/Medium/Cool)	Choose one of three automatic colour adjustments. Set to warm to enhance hotter colours such as red, or set to cool to make picture bluish
Dynamic Contrast (Off/Low/Medium/High)	 Adjusts the contrast to keep it at the best level according to the brightness of the- screen. The picture is improved by making bright parts brighter and dark parts darker.
Dynamic Colour (Off/Low/High)	 Adjusts screen colours so that they look livelier, richer and clearer. This feature enhances hue, saturation and luminance so that red, blue, green and white look more vivid.
Noise Reduction (Off/Low/Medium/High)	 Reduces screen noise without compromising video quality.
Gamma (Low/Medium/High)	 You can adjust brightness of dark area and middle gray level area of the picture. Low : Make brighter and middle gray level area of the picture brighter. Medium: Express original picture levels. High: Make dark and middle gray level area of the picture darker.
Black Level (Low/High)	 Low : The picture of the screen gets darker. High : The picture of the screen gets brighter. Auto : Realizing the black level of the screen and set it to High or Low automatically. Set black level of the screen to proper level. This function enables to select 'Low' or 'High' in the following mode: AV(NTSC-M), HDMI or Component. Otherwise, 'Black level' is set to 'Auto'.
Eye Care (On/Off)	 * This feature is not available for all models. Adjust the brightness of the screen to prevent the screen from being too bright. Dims extremely bright pictures. This feature is disable in "Picture Mode-Vivid, Cinema, Intelligent Sensor".
Film Mode (On/Off)	 You can watch a cinema-like video by eliminating judder effect. Use this function when you watch movies. This function can work when TruMotion is off.

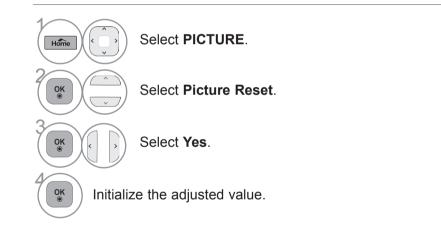
PICTURE CONTROL

Colour Gamut (Wide/Standard)	 Standard : Mode to reproduce original colour according to the standard of input signal independent of the display characteristics. Wide: Mode to use and set the rich colour area of the display.
Edge Enhancer (Off/Low/High)	Shows clearer and distinctive yet natural corners of the video.
OPC (On/Off)	 * This feature is not available for all models. As the technology to reduce the power consumption while keeping the same brightness, this has the effect of reducing power consumption, improvement in contrast.
Colour Standard (SD/HD)	 Converts the colour of a different video to HD colour. This function is set for SD video (BT-601) and HD video (BT-709) colour format. This feature is enabled in "Picture Mode - Expert1/2".
Colour Filter (Off/Red/Green/Blue)	 This is the function to filter the specific colours of the video. You can use the RGB filter to set colour saturation and hue accurately. This feature is enabled in "Picture Mode - Expert1/2".
White Balance (Medium/Warm/Cool)	 This is the function to adjust the overall colour of the screen to the feeling you want. Red/Green/Blue Contrast, Red/Green/Blue Brightness: The adjustment range is -50 to +50. This feature is enabled in "Picture Mode - Expert1/2"
Colour Management System	 As the tool used by the experts to make adjustments by using the test patterns, this does not affect other colours but can be used to selectively adjust the 6 colour areas (Red/Green/Blue/Cyan/Magenta/Yellow). Colour difference may not be distinctive even when you make the adjustments for the general video. Adjusts Red/Green/Blue/Yellow/Cyan/Magenta. Red/Green/Blue/Yellow/Cyan, Magenta Colour : The adjustment range is -30 to +30. Red/Green/Blue/Yellow/Cyan/Magenta Tint : The adjustment range is -30 to +30. This feature is disable in RGB-PC mode. This feature is enabled in "Picture Mode - Expert1/2".

PICTURE RESET

Settings of the selected picture modes return to the default factory settings.

	∢⊸≻ Move ⊚ OK			PICTURE
<u>()</u>	Contrast 100			Contrast 100
	Brightness 50 Sharpness 70	~		Brightness 50
O	Colour 70	\geqslant	O	 Resetting video configuration
0	• Tint		9	
Ē	Advanced Control Picture Reset			Advanced Control Picture Reset
Screen				Screen



- Press the Home/EXIT button to return to normal TV viewing.
- Press the **BACK** button to move to the previous menu screen.

PICTURE CONTROL

POWER INDICATOR

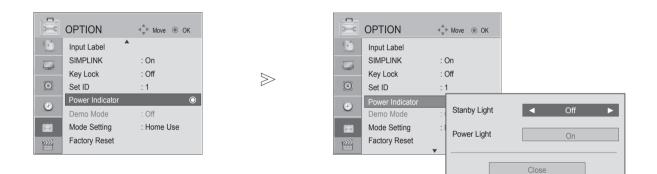
Adjust the power/standby indicator light on the front of the TV.

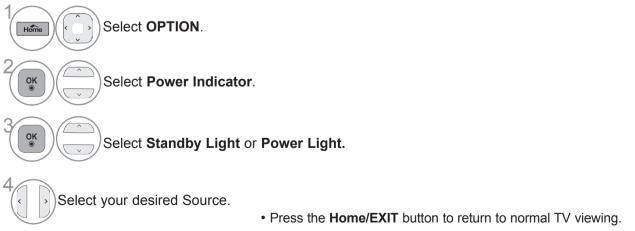
Standby Light

Determines whether to set the indicator light on the front of the TV to On or Of f in standby mode.

Power Light

Determines whether to set the indicator light on the front of the TV to On or Of f when the power turns on.





• Press the **BACK** button to move to the previous menu screen.

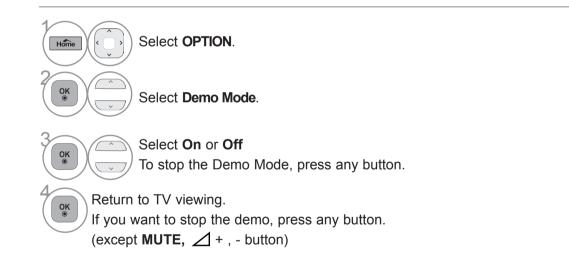
DEMO MODE

It is not possible to use **Demo Mode** in **Home Use** mode.

In Store Demo, Demo Mode is automatically set to On.

Once **Demo Mode** is set to Off in **Store Demo**, **Demo Mode** does not run and only the screen is reset. The screen is reset automatically after 5 minutes in Demo Mode.

	OPTION ^₄ _♥ [►] Move ⊛ 0K		OPTION	∢ _♥ ▶ Move	
(Menu Language : English	S	Menu Language	: English	
	Input Label		Input Label		
	SIMPLINK : On		SIMPLINK	: On	
0	Key Lock : Off	0	Key Lock	: Off	
2	Set ID : 1	(2)	Set ID	: 1	
	Power Indicator		Power Indicator	Off	
	Demo Mode : On 💿		Demo Mode	On	C
****	Mode Setting : Store Demo	****	Mode Setting	: Store Demo	



- Press the Home/EXIT button to return to normal TV viewing.
- Press the **BACK** button to move to the previous menu screen.

PICTURE CONTROL

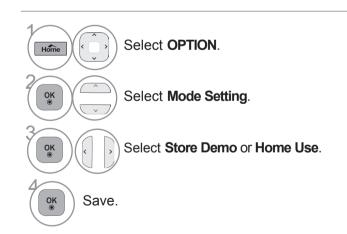
MODE SETTING

We recommend setting the TV to "**Home Use** " mode for the best picture in your home environment. "**Store Demo** " mode is an optimal setting for displaying at stores.

	Menu Language	: English						
	Input Label							
0	SIMPLINK	: On						
\odot	Key Lock	: Off						
9	Set ID	:1						
0	Power Indicator							
	Demo Mode	: Off						
	Mode Setting	: Store Demo 🔘						



Chose the setting mode you want	
Store Demo Home Use Select [Home Use] to use this TV at Home. To use this TV at store, select [Store Demo]	



- Press the Home/EXIT button to return to normal TV viewing.
- Press the BACK 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.

Because each broadcasting station has its own signal conditions, volume adjustment may be needed every time the channel is changed. This feature allows users to enjoy stable volume levels by making automatic adjustments for each programme.

\bigcirc	AUDIO		∢⊸⊨ Move ⊚ OK		\bigcirc	AUDIO		⊲ _v Move ⊚ OK	Ī
	Auto Volume	: Off	٥		S	Auto Volume	: Off	Off	
	Clear Voice II	: Off				Clear Voice II	: Off	On	C
		 Level 	3	\gg			 Level 	3 - +	
\bigcirc	Balance		0 LR		0	Balance		0 L R	
0	Sound Mode	: Standard			0	Sound Mode	: Standard		
		 Infinite Sur 	round : Off				 Infinite Sur 	round : Off	
		Treble	50				Treble	50	
»»»»» =====		Bass	50		****		Bass	50	
		▼		-			▼		

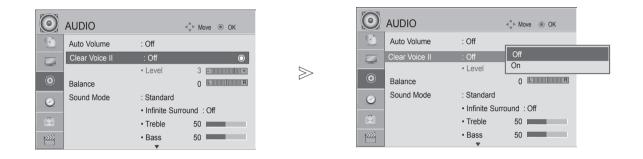


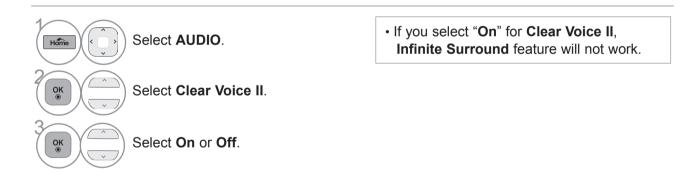
- Press the Home/EXIT button to return to normal TV viewing.
- Press the **BACK** button to move to the previous menu screen.

SOUND & LANGUAGE CONTROL

CLEAR VOICE II

By differentiating the human sound range from others, it helps users listen to human voices better.





ADJUSTMENT FOR CLEAR VOICE LEVEL WITH SELECTING ON



• Press the Home/EXIT button to return to normal TV viewing.

• Select levels from '-6' to '+6'.

• Press the **BACK** button to move to the previous menu screen.

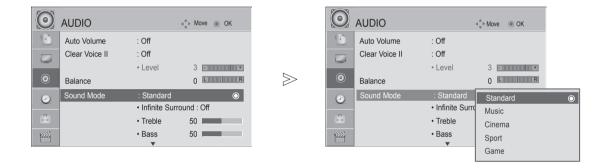
PRESET SOUND SETTINGS-SOUND MODE

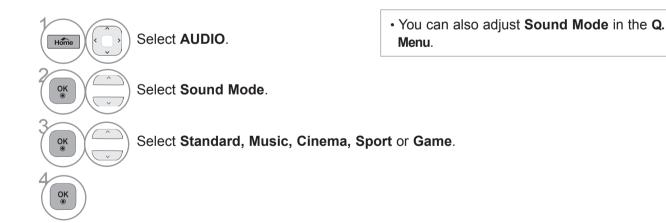
You can select your preferred sound setting; Standard, Music, Cinema, Sport or Game and you can also adjust the Treble, Bass.

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.

Standard, Music, Cinema, Sport and Game are preset for optimum sound quality at the factory.

- **Standard** Offers standard-quality sound.
- Music Optimizes sound for listening to music.
- **Cinema** Optimizes sound for watching movies.
- **Sport** Optimizes sound for watching sports events.
- Game Optimizes sound for playing games.





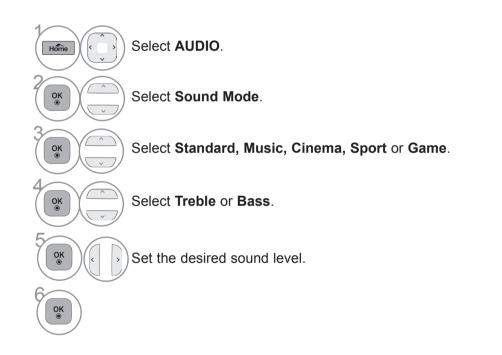
- Press the Home/EXIT button to return to normal TV viewing.
- Press the **BACK** button to move to the previous menu screen.

SOUND & LANGUAGE CONTROL

SOUND SETTING ADJUSTMENT -USER MODE

Adjusting the audio equalizer





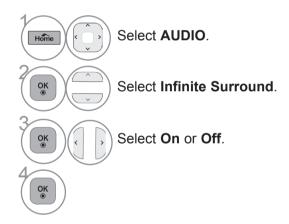
- Press the Home/EXIT button to return to normal TV viewing.
- Press the BACK button to move to the previous menu screen.

INFINITE SURROUND

Select this option to sound realistic.

		∢⊸⊳ Move ⊚ OK
O Auto Volume	: Off	
Clear Voice II	: Off	
	 Level 	3
O Balance		0
Sound Mode	: Standard(User) 🔘
	 Infinite Sur 	rround : Off
Ē	Treble	50
»))) ===	• Bass	50
	•	

\bigcirc	AUDIO		⊲_⊳ Move	⊛ OK				
(Auto Volume	: Off						
	Clear Voice II	: Off						
		• Level	3 -	+				
0	Balance		0	R				
0	Sound Mode	: Standard (User)					
		 Infinite Sur 	Infinite Surround Infin			e Surround < Off		
		 Treble 	50	Treble				
200		Bass	50	• Bass	50			
		•			CI	ose		



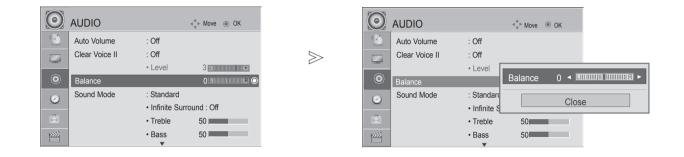
• Infinite Surround : Infinite Surround is a patented LG proprietary sound processing technology that strives immersive 5.1 surround sound impression with front two loud-speakers.

- Press the Home/EXIT button to return to normal TV viewing.
- Press the **BACK** button to move to the previous menu screen.

SOUND & LANGUAGE CONTROL

BALANCE

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





- Press the Home/EXIT button to return to normal TV viewing.
- Press the **BACK** button to move to the previous menu screen.

TV SPEAKERS ON/ OFF SETUP

You can adjust the TV internal speaker status.

In **AV, COMPONENT**, **RGB** and **HDMI** with HDMI to DVI cable, the TV speaker can be operational even when there is no video signal.

If you wish to use an external Hi-Fi system, turn off the TV's internal speakers.

\bigcirc AUDIO \bigcirc AUDIO ▲ Move ● OK ◄ Move OK OK : Level : Level Balance 0 -----+ Balance 0 -----+ Sound Mode : Standard \geq Sound Mode : Standard · Infinite Surround : Off · Infinite Surround : Off ٢ Treble 50 ٢ Treble 50 Bass 50 🔳 Bass 50 • Reset • Reset Off »»»» **}**



- Press the **Home/EXIT** button to return to normal TV viewing.
- Press the **BACK** button to move to the previous menu screen.

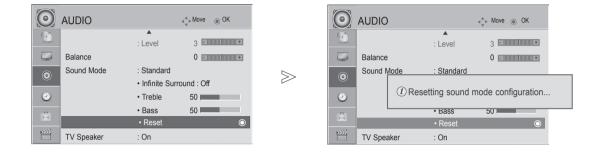
NOTE

When the TV speaker is turned off while the Simplink home theater is operating, the sound output automatically switches to the Home theater speaker, but when the TV speaker is turned on, the sound output the TV speaker.

SOUND & LANGUAGE CONTROL

AUDIO RESET

Settings of the selected Sound Mode return to the default factory settings.



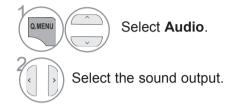


- Press the Home/EXIT button to return to normal TV viewing.
- Press the BACK button to move to the previous menu screen.

|/||

STEREO/DUAL RECEPTION

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



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.

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.

SOUND & LANGUAGE CONTROL

NICAM RECEPTION

2

3

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

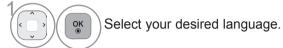
In AV, Component, RGB and HDMI mode, you can select output sound for the left and right loudspeakers.

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.

ON-SCREEN MENU LANGUAGE SELECTION

The installation guide menu appears on the TV screen when it is switched on for the first time.



* If you want to change Language/ Country selection



- Press the **Home/EXIT** button to return to normal TV viewing.
- Press the **BACK** button to move to the previous menu screen.

NOTE

► If you do not finish the set-up Installation Setup by pressing BACK or if you time out on the OSD (On Screen Display) the installation menu will continuously appear until the set up is completed whenever the TV is switched on.

TIME SETTING

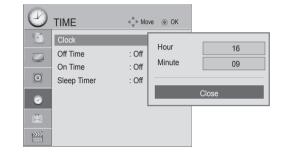
CLOCK SETUP

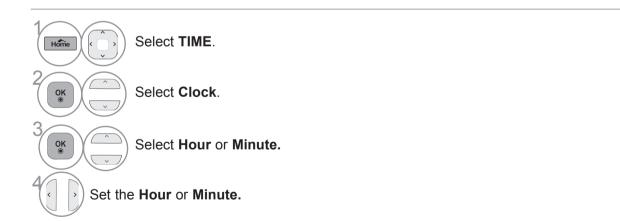
You must set the time correctly before using on/off timer function.

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



 \gg





TIME SETTING

- Press the Home/EXIT button to return to normal TV viewing.
- Press the **BACK** button to move to the previous menu screen.

AUTO ON/OFF TIME 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.

Y)

0

»»»» = - - - TIME

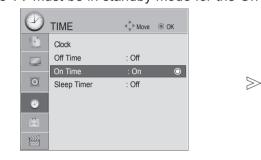
Clock

Off Time

On Tim

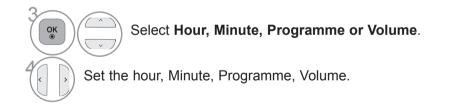
Sleep Timer

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.





When the On Time is selected



• Press the **Home/EXIT** button to return to normal TV viewing.

< On

00

00

1

30

Close

(-) 23:59

Hour

Minute

Volume

Programme

• Press the **BACK** button to move to the previous menu screen.

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.



Select Sleep Timer.

Select Off, 10, 20, 30, 60, 90, 120, 180 or 240 min.

- When you switch the TV off, the preset sleep timer is cancelled.
- You can also adjust Sleep Timer in the TIME menu.



This feature is not available in all countries.

Teletext is a free service broadcast by most TV stations which gives up-tothe-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** 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 $P \land \lor$ button can be used to select the preceding or following page.

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.

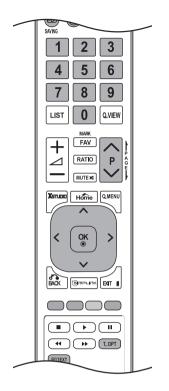
Block / group / page selection

- **1** With the blue button you can progress from block to block.
- 2 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.
- **4** Alternatively the $\mathbf{P} \wedge$ button can be used.

The red button returns to the previous selection. Alternatively the $\mathbf{P} \lor$ 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

- **1** Press the **T.OPT** button and then use $\land \lor$ button to select $\exists \exists menu$. Display the index page.
- 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.
- **4** The $P \land \lor$ button can be used to select the preceding or following page.

SPECIAL TELETEXT FUNCTIONS

• Press the **T. OPT** button and then use $\land \lor$ button to select the **Text Option** menu.



Index

Select the each index page.

ΞĐ

Time

When viewing a TV programme, select this menu to display the time at the top right hand corner of the screen.

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, <> or NUMBER buttons.



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 menu is selected the stop symbol is displayed at the top left-hand corner of the screen and the automatic page change is inactive.



Reveal

Select this menu to display concealed information, such as solutions to riddles or puzzles.



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. Select this menu again to view the updated teletext page.



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. Ensure you are pointing the remote control directly at the TV. Ensure that the batteries are installed with correct polarity (+ to +, - to -). 				
Power is suddenly	 Install new batteries. Is the sleep timer set? Check the power control settings. Has the Power supply been interrupted. 				
turned off	 If the TV is switched on and there is no input signal, it will switch off auto- matically after 15 minutes. 				

The video function does	not work.
	 Try another channel. The problem may be with the broadcast.
No picture & No sound	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 slowly	■ This is normal, the image is muted during the TV startup process. Please contact
after switching on	your service centre, if the picture has not appeared after five minutes.
	 Adjust Colour in menu option.
No or poor colour	Allow a sufficient distance between the TV and the VCR.
or poor picture	 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	 Check for local interference such as an electrical appliance or power tool.
or picture shaking	
Poor reception on	 Station or cable channel experiencing problems, tune to another station.
some channels	Station signal is weak, reposition the antenna to receive weaker stations.
	Check for sources of possible interference.
Lines or streaks	 Check antenna (Change the position of the antenna).
in pictures	
No picture	Check that your HDMI cable is High Speed HDMI Cable.
when connecting	If the HDMI cables are not High Speed HDMI Cable, flickering or no screen display
HDMI	can result. Please use the High Speed HDMI Cable.

The audio function does not work.				
Picture OK & No sound	 Check whether the TV is switched on. Press the ∠ + or - 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 con- necting HDMI or USB	Check HDMI cable is High Speed HDMI Cable.Check USB cable over version 2.0.			

There is a problem in PC mode. (Only PC mode applied)					
The signal is out of range (Invalid format)	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 size, phase, or H/V position. (Option)				
Screen colour is unstable or single colour	Check the signal cable.Reinstall the PC video card.				

There is a problem with PICTURE settings.

When the user changes the picture settings, the TV automatically converts back to the initial settings after a certain period of time.

It means that the TV is currently set to Store Demo mode. To switch to Home use mode you should do the followings: From the TV Menu, choose OPTION -> Choose Mode Setting -> Choose Home use. Now, you have completed switching to the Home use mode.

APPENDIX

MAINTENANCE

Early malfunctions can be prevented. Careful and regular cleaning can prolong the life of your new TV.

Caution: Be sure to switch 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 luke-1) warm water and a little fabric softener or dish washing detergent. Wring the cloth until it is 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

ACAUTION

▶ 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

		22LK3**	26LK3**		
		22LK3 22LK310-TA / 22LK310Y-TA	26LK310-TA / 26LK310Y-TA		
		22LK310-TG / 22LK310Y-TG 26LK310-TG / 26LK310Y-TG			
MO	DELS	22LK311-TB / 22LK311Y-TB 26LK311-TB / 26LK311Y-TB			
VIU	DELS	22LK311-TH / 22LK311Y-TH 26LK311-TH / 26LK311Y-TH			
		22LK312-TC / 22LK312Y-TC 26LK312-TC / 26LK312Y-TC			
		22LK313-TD / 22LK313Y-TD 22LK310Z-TA	26LK313-TD / 26LK313Y-TD 26LK310Z-TA		
Dimensions (Width x Height x	with stand	526.0 mm x 377.0 mm x 165.0 mm	663.0 mm x 484.0 x mm 207.0 mm		
Depth)	without stand	526.0 mm x 331.0 mm x 65.0 mm	663.0 mm x 423.0 mm x 79.9 mm		
Weight	with stand	4.3 kg	7.6 kg		
	without stand	4.0 kg	6.5 kg		
Power requirement		AC 100-240 V~ 50 / 60 Hz	AC 100-240 V~ 50 / 60 Hz		
		32LI			
		32LK310-TA /			
		32LK310-TG / 32LK311-TB /			
MO	DELS	32LK311-TH /			
		32LK312-TC /			
		32LK313-TD /			
Dimensions		32LK3 ⁴	10Z-1A		
Dimensions (Width x Height x	with stand	800.0 mm x 565.0 mm x 207.0 mm			
Depth)	without stand	800.0 mm x 509.0 mm x 73.8 mm			
Weight	with stand	9.6 kg			
Power requirement	without stand	8.6 kg AC 100-240 V~ 50 / 60 Hz			
Fower requirement		32LK4**	42LK4**		
МО	DELS	32LK410-TB / 32LK410Y-TB	42LK410-TB / 42LK410Y-TB 42LK410-TH / 42LK410Y-TH		
Dimensions	with stord	32LK410-TH / 32LK410Y-TH			
(Width x Height x	with stand	799.0 mm x 555.0 mm x 207.0 mm	1023.0 mm x 685.0 mm x 261.0 mm		
Depth)	without stand	799.0 mm x 516.0 mm x 73.5 mm	1023.0 mm x 644.0 mm x 76.6 mm		
Weight	with stand	9.6 kg	15.4 kg		
	without stand	8.6 kg	13.7 kg		
Power requirement		AC 100-240 V~ 50 / 60 Hz	AC 100-240 V~ 50 / 60 Hz		
Television System		PAL/SECAM B/G/D/	/K, PAL I/II, NTSC-M		
Programme Coverage		VHF: NZ1 to E21, UHF: E21 to E69, 0	CATV: S1 to S20, HYPER: S21 to S47		
External Antenna Impedance		75	δΩ		
	Operating Temperature	0 °C t	o 40 °		
_	Operating Humidity	Less that	an 85 %		
Environment condition	Storage Temperature	-20 °C t			
	Storage Humidity	Less that	an 85 %		
Supported movie files		Refer to p. 40			
11					

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

APPENDIX

MODELS		19LV2*** 19LV2130-TD / 19LV213Y-TD	22LV2*** 22LV2130-TD / 22LV213Y-TD	
		19LV2130-TD / 19LV213Y-TD 19LV2130-TK / 19LV213Y-TK	22LV2130-TK / 22LV213Y-TK	
Dimensions (Width x Height x	with stand	455.2 mm x 355.0 mm x 145.0 mm	526.0 mm x 396.0 mm x 145.0 mm	
Depth)	without stand	455.2 mm x 313.1 mm x 40.9mm	526.0 mm x 352.0 mm x 40.9 mm	
Weight	with stand	2.7 kg	3.4 kg	
•	without stand	2.5 kg	3.2 kg	
Power requirement		AC 100-240 V~ 50 / 60 Hz	AC 100-240 V~50/60 Hz	
		26LV2***	32LV2***	
MC	DELS	26LV2130-TD / 26LV213Y-TD 26LV2130-TK / 26LV213Y-TK	32LV2130-TD / 32LV213Y-TD 32LV2130-TK / 32LV213Y-TK	
Dimensions (Width x Height x	with stand	635.6 mm x 475.0 mm x 169.0 mm	777.0 mm x 552.0 mm x 216.0 mm	
Depth)	without stand	635.6 mm x 413.5 mm x 40.9 mm	777.0 mm x 501.0 mm x 35.4 mm	
Waight	with stand	5.4 kg	11.5 kg	
Weight	without stand	5.0 kg	10.7 kg	
Power requirement		AC 100-240 V~ 50/60 Hz	AC 100-240 V~50/60 Hz	
MO	DELS	32LV3***	42LV3***	
		32LV3100-TA / 32LV310Y-TA	42LV3100-TA / 42LV310Y-TA	
Dimensions (Width x Height x	with stand	768.0 mm x 555.0 mm x 240.0 mm	1000.0 mm x 694.0 mm x 257.0 mm	
Depth)	without stand	768.0 mm x 492.0 mm x 45.0 mm	1000.0 mm x 623.0 mm x 43.0 mm	
Weight	with stand	11.0 kg	14.8 kg	
Weight	without stand	9.3 kg	12.4 kg	
Power requirement		AC 100-240 V~ 50 / 60 Hz	AC 100-240 V~50/60 Hz	
Television System		PAL/SECAM B/G/D/	/K, PAL I/II, NTSC-M	
Programme Coverage		VHF: NZ1 to E21, UHF: E21 to E69, CATV: S1 to S20, HYPER: S21 to S47		
External Antenna Imp			Ω	
External Antenna Imp			Ω	
	edance	75	5Ω 32 °F to 104 °F)	
External Antenna Imp Environment condition	edance Operating Temperature	75 0 °C to 40 °C (3	5Ω 32 °F to 104 °F) an 85 %	
	edance Operating Temperature Operating Humidity	75 0 °C to 40 °C (3 Less tha	5Ω 32 °F to 104 °F) an 85 % (-4 °F to 140 °F)	

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

IR CODES

*This feature is not available for all models.

Code (Hexa)	Function	Note
08	O POWER	R/C BUTTON
95	Energy Saving	R/C BUTTON
0B	INPUT	R/C BUTTON
0F	TV	R/C BUTTON
45	Q.MENU	R/C BUTTON
43	Home	R/C BUTTON
7C	Xstudio	R/C BUTTON
40	Up (^)	R/C BUTTON
41	Down (∨)	R/C BUTTON
07	Left (<)	R/C BUTTON
06	Right (>)	R/C BUTTON
44	OK (⊚)	R/C BUTTON
28	BACK (🔊)	R/C BUTTON
30	AV MODE	R/C BUTTON
02	⊿+	R/C BUTTON
03	⊿-	R/C BUTTON
1E	FAV (MARK)	R/C BUTTON
79	RATIO	R/C BUTTON
09	MUTE	R/C BUTTON
00	РΛ	R/C BUTTON
01	Pv	R/C BUTTON
10 to 19	Number Key 0 to 9	R/C BUTTON
53	LIST	R/C BUTTON
1A	Q.VIEW	R/C BUTTON
72	RED Key	R/C BUTTON
71	GREEN Key	R/C BUTTON
63	YELLOW Key	R/C BUTTON
61	BLUE Key	R/C BUTTON
20	TEXT	R/C BUTTON
21	T.OPT(T.Option)	R/C BUTTON
7E	SIMPLINK	R/C BUTTON
5B	EXIT	R/C BUTTON
B1		R/C BUTTON
В0	•	R/C BUTTON
BA	II Pause	R/C BUTTON
8F	◄ < Rew	R/C BUTTON
8E	►► FF	R/C BUTTON

APPENDIX

EXTERNAL CONTROL DEVICE SETUP

RS-232C SETUP

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

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

Note:

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

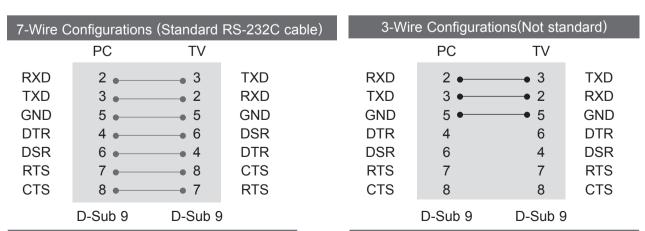
In USB, it doesn't support RS-232C function.

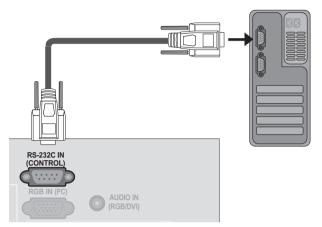
TYPE OF CONNECTOR; D-SUB 9-PIN MALE

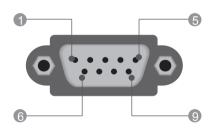
No. Pin Name

- 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

RS-232C CONFIGURATIONS



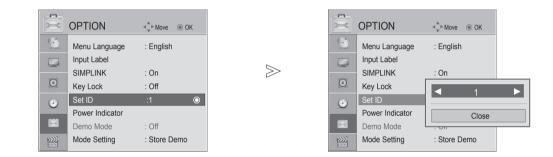


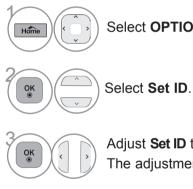




SET ID

Use this function to specify a set ID number. Refer to 'Real Data Mapping'. ► **p.85**





Select **OPTION**.

Adjust Set ID to choose the desired TV ID number. The adjustment range of SET ID is 1 to 99.

APPENDIX

COMMUNICATION PARAMETERS

- Baud rate : 9600 bps (UART)
- Data length : 8 bits
- Parity : None

- Stop bit : 1 bit
- Communication code : ASCII code
- Use a crossed (reverse) cable.

Command Reference List

	COMMAND 1	COMMAND 2	DATA (Hexadecimal)		COMMAND 1	COMMAND 2	DATA (Hexadecimal)
01. Power	k	а	00 to 01	14. Colour Temperature	k	u	00 to 64
02. Aspect Ratio	k	С	Refer to p. 83	15. Treble	k	r	00 to 64
03. Screen Mute	k	d	Refer to p. 83	16. Bass	k	S	00 to 64
04. Volume Mute	k	е	00 to 01	17. Abnormal Status	k	Z	FF
05. Volume Control	k	f	00 to 64	18. Control Back Light	m	g	Refer to p. 85
06. Contrast	k	g	00 to 64	19. Auto Configure	j	u	01
07. Brightness	k	h	00 to 64	20. Eneregy Saving	j	q	Refer to p. 85
08. Colour	k	i	00 to 64	21. Tune Command	m	а	Refer to p. 85
09. Tint	k	j	00 to 64	22. Channel Skip	m	b	00 to 01
10. Sharpness	k	k	00 to 64	23. Key	m	С	Refer to p. 85
11. OSD Select	k	I	00 to 01	24. Input select (Main)	х	b	Refer to p. 85
12. Remote Control Lock / Key Lock Mode	k	m	00 to 01				
13. Balance	k	t	00 to 64				

Transmission / Receiving Protocol

Transmission	OK Acknowledgement
[Command1][Command2][][Set ID][][Data][Cr]	[Command2][][Set ID][][OK][Data][x]
 * [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 to 99. 	* 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.
When selecting Set ID '0', every con-	Error Acknowledgement
nected TV is controlled. Set ID is indi- cated as decimal (1 to 99) on menu and	[Command2][][Set ID][][NG][Data][x]
 as Hexa decimal (0x0 to 0x63) on transmission/receiving protocol. * [DATA] : To transmit command data. Transmit 'FF' data to read status of command. * [Cr] : Carriage Return ASCII code '0x0D' * [] : ASCII code 'space (0x20)' 	 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. <u>*Transmission*</u>

[k][a][][Set ID][][Data][Cr] Data 00 : Power Off 01 : Power On <u>Acknowledgement</u>

[a][][Set ID][][OK/NG][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 also 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
	02 : Wide screen (16:9)		07:14:9
	04 : Zoom		09 : Just Scan
	10 to 1E: Cinema Zoom1 1 to 16		

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. <u>Transmission</u>

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

- Data 00 : Screen mute off (Picture on) Video Mute off
- Data 01 : Screen mute on (Picture off) Data 10 : Video Mute on

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.

<u>Transmission</u>

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

Data 00 : Volume mute on (Volume off) 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.

<u>Transmission</u>

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

Data Min : 00 to Max : 64

* Refer to 'Real data mapping 1'. See page 85. 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.

<u>Transmission</u>

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

Data Min : 00 to Max : 64

* Refer to 'Real data mapping 1'. See page 85.

Acknowledgement

[g][][Set ID][][OK/NG][Data][x]

07. Brightness (Command: k h)

To adjust screen brightness.

You can also adjust brightness in the PICTURE menu. <u>Transmission</u>

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

Data Min: 00 to Max: 64

* Refer to 'Real data mapping 1'. See page 85. <u>Acknowledgement</u>

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

08. Colour (Command: k i)

 To adjust the screen colour. You can also adjust colour in the PICTURE menu.

<u>Transmission</u>

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

Data Min : 00 to Max : 64 * Refer to 'Real data mapping 1'. See page 85

Acknowledgement

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

APPENDIX

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 to Green : 64

* Refer to 'Real data mapping 1'. See page 85.

<u>Acknowledgement</u>

[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 to Max : 64

* Refer to 'Real data mapping 1'. See page 85.

<u>Acknowledgement</u>

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

11. OSD Select (Command: k I)

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

<u>Transmission</u>

[k][I][][Set ID][][Data][Cr]

Data 00 : OSD off 01 : OSD on

<u>Acknowledgement</u>

[I][][Set ID][][OK/NG][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.

<u>Transmission</u>

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

Data 00 : Lock off

01 : Lock on

Acknowledgement

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

* When main power is on/off, remote control lock is released.

* In the standby mode, if key lock is on, TV will not turn on by power on key of IR & Local Key.

13. 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 to Max : 64

* Refer to 'Real data mapping 1'. See page 85.

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

14. Colour Temperature (Command: k u)

 To adjust colour temperature. You can also adjust Colour Temperature in the PICTURE menu.
 <u>Transmission</u>

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

Data 00: Medium 01: Cool 02: Warm Acknowledgement

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

15. Treble (Command: k r)

To adjust Treble. <u>Transmission</u>

[k][r][][Set ID][][Data][Cr]

Data Min: 00 to Max: 64

* Refer to 'Real data mapping 1'. See page 85

<u>Acknowledgement</u>

[r][][Set ID][][OK/NG][Data][x]

16. Bass (Command: k s)

To adjust bass Transmission

[k][s][][Set ID][][Data][Cr]

Data Min: 00 to Max: 64 * Refer to 'Real data mapping 1'. See page 85. <u>Acknowledgement</u>

[s][][Set ID][][OK/NG][Data][x]

17. Abnormal State (Command: k z)

► To recognize an abnormal state. <u>Transmission</u> [k][z][][Set ID][][Data][Cr]

Acknowledgement

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

Data FF: Read

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".

APPENDIX

18. Control Back Light (Command: mg)

To Control the back light.

<u>Transmission</u>

[m][g][][Set ID][][Data][Cr]

Data : data Min: 00 to Max: 64

(* transmit by Hexadecimal code) <u>Acknowledgement</u>

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

19 . 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]

20. Energy Saving (Command: j q)

► To reduce the power consumption of the TV. <u>*Transmission*</u>

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

Data Min: 00H to Max: 05H Data 00 : Off 01 : Minimum 02 : Medium 03 : Maximum 05 : Screen Off <u>Acknowledgement</u> [q][][Set ID][][OK/NG][Data][x]

21. Tune Command/ Channel Tuning (Command: m a)

► Tune Channel to following Physical number. *Transmission*

[m][a][][Set ID][][Data0][][Data1][][Data2][Cr] Data0: 00 Data1: Min: 00 to Max: C7

* Refer to 'Real data mapping 1' See page 85. Data2: 00

<u>Acknowledgement</u>

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

22. Channel Skip(Command: m b)

► To set skip status for the current Programme. <u>Transmission</u>

[m][b][][Set ID][][Data][Cr] Data 00 : Skip 01 : Add

Acknowledgement

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

23. Key (Command: m c)

► To send IR remote key code. <u>*Transmission*</u>

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

Data: Key code - Refer to page 79.

Acknowledgement

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

24. Input select (Command: x b) (Main Picture Input)

► To select input source for TV. <u>*Transmission*</u>

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

Data : Structure

MSB

0

В							LSB
	0	0	0	0	0	0	0

	zxterr	nai inp	but –	
External Input				Data
0	0	0	1	Analogue
0	0	1	0	AV
0	1	0	0	Component
0	1	1	0	RGB-PC
1	0	0	1	HDMI
INPUT Number				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]

11 -	- 11 -					
		* Real data mapping 1				
		00 :	Step 0			
		:				
		A :	Step 10			
		:				
		F:	Step 15			
		10 :	Step 16			
		:				
		64 :	Step 100			
		:				
		6E :	Step 110			
		:				
			Step 115			
		74 :	Step 116			
		:				
		C7 :	Step 199			
		:				
			Step 254			
		FF:	Step 255			



Record the model number and serial number of the TV. Refer to the label on the back cover and quote this information to your dealer when requiring any service.

Model : _____

Serial No. : ____