LG
Life's Good

OWNER'S MANUAL
LCD TV

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

www.lg.com



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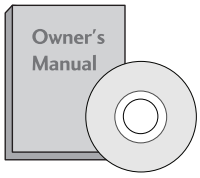
ACCESSORIES

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

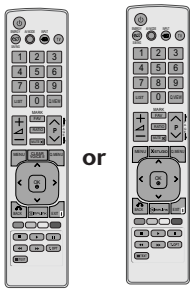
- Image shown may be somewhat different from your TV.



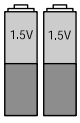
Owner's Manual



Power Cord

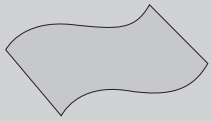


Remote Control



Batteries (AAA)

This item is not included for all models.



Polishing Cloth
Polishing cloth for use on the screen.

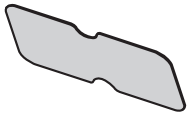
*** Lightly wipe any stains or fingerprints on the surface of the TV with the polishing cloth.**

Do not use excessive force. This may cause scratching or discolouration.

Only 19/22LD3**



Cable Holder
(Refer to p. 12)

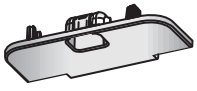


Protection cover
(Refer to p. 11)

Only 26/32LD3**



M4 x 20
Bolts for stand assembly
(Refer to p. 9)

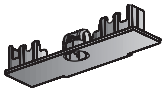


Protection cover
(Refer to p. 11)

Only 32/42LD4**



Bolts for stand assembly
(Refer to p. 10)



Protection cover
(Refer to p. 11)

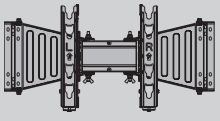
Only 26/32LD3, 32/42LD4****



1-screw for stand fixing
(Refer to p. 10)

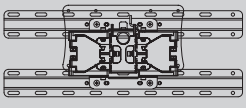
Wall Mounting Bracket(Separate purchase)

AW-47LG30M



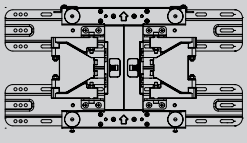
(32LD4)**

LSW100B or LSW100BG



(19/22/26/32LD3)**

LSW200B or LSW200BG



(42LD4)**

CONTENTS

ACCESSORIES 1

PREPARATION

Front Panel Controls 4
Back Panel Information 6
Stand Installation 9
Attaching the TV to a desk 10
Not Using the desk-type stand 11
Back Cover for Wire Arrangement 12
Swivel Stand 13
Positioning your Display 13
Kensington Security System 13
Careful Installation Advice 14
Desktop Pedestal Installation 14
Wall Mount: Horizontal Installation 15
Antenna Connection 16

EXTERNAL EQUIPMENT SETUP

HD Receiver Setup 17
DVD Setup 20
VCR Setup 22
USB in Setup 23
Other A/V Source Setup 24
External Stereo Setup 25
AV Output Setup 25
PC Setup 26
- Screen Setup for PC Mode 28

WATCHING TV / PROGRAMME CONTROL

Remote Control Key Functions 32
Turning on the TV 36
Programme Selection 36
Volume Adjustment 36
Quick Menu 37
On-Screen Menus Selection and Adjustment 38
Auto Programme Tuning 39
Manual Programme Tuning 40
Programme Edit 42
Selecting the Programme List 44
Favourite Programme Setup 45
Input List 46
Input Label 47
SIMPLINK 48
Key Lock 50
Initializing(Reset to original factory settings) 51
AV Mode 52

TO USE A USB DEVICE

When connecting the USB device 53
Photo List 55
Music List 59
Movie List 62
DivX Registration Code 66
Deactivation 67

PICTURE CONTROL

Picture Size (Aspect Ratio) Control 68
Energy Saving 70
Preset Picture Settings
- Picture Mode-Preset 71
Manual Picture Adjustment
- Picture Mode-User option 72
Picture Improvement Technology 73
Expert Picture Control 74
Picture Reset 77
Power Indicator 78
Demo Mode 79
Mode Setting 80

SOUND & LANGUAGE CONTROL

Auto Volume Leveler 81
Preset Sound Settings - Sound Mode 82
Sound Setting Adjustment - User Mode 83
Infinite Sound 83
SRS TruSurround XT 84
Clear Voice II 85
Balance 85
TV Speakers On/ Off Setup 86
Selecting Audio Out 87
Audio Reset 88
I/II
- Stereo/Dual Reception 89
- NICAM Reception 90
- Speaker Sound Output Selection 90
On-Screen Menu Language Selection 91

TIME SETTING

Clock Setup 92
Auto On/ Off Timer Setting 93
Sleep Timer Setting 93

TELETEXT

Switch on/off 94
SIMPLE Text 94
TOP Text 94
FASTEXT 95
Special Teletext Functions 95

APPENDIX

Troubleshooting 96
Maintenance 98
Product Specifications 99
IR Codes 101
External Control Device Setup 102

PREPARATION

FRONT PANEL CONTROLS

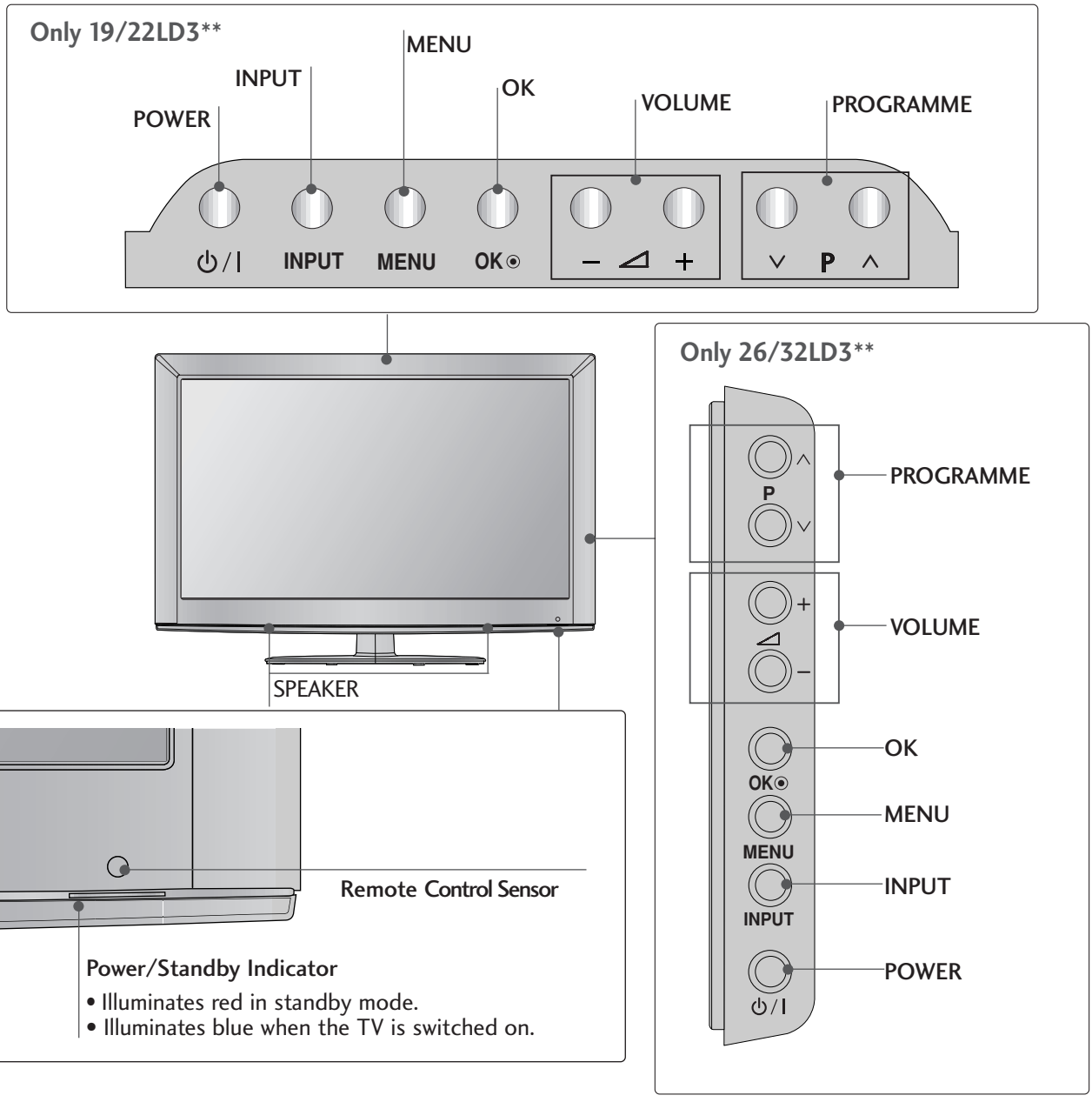
NOTE

▶ 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.

CAUTION

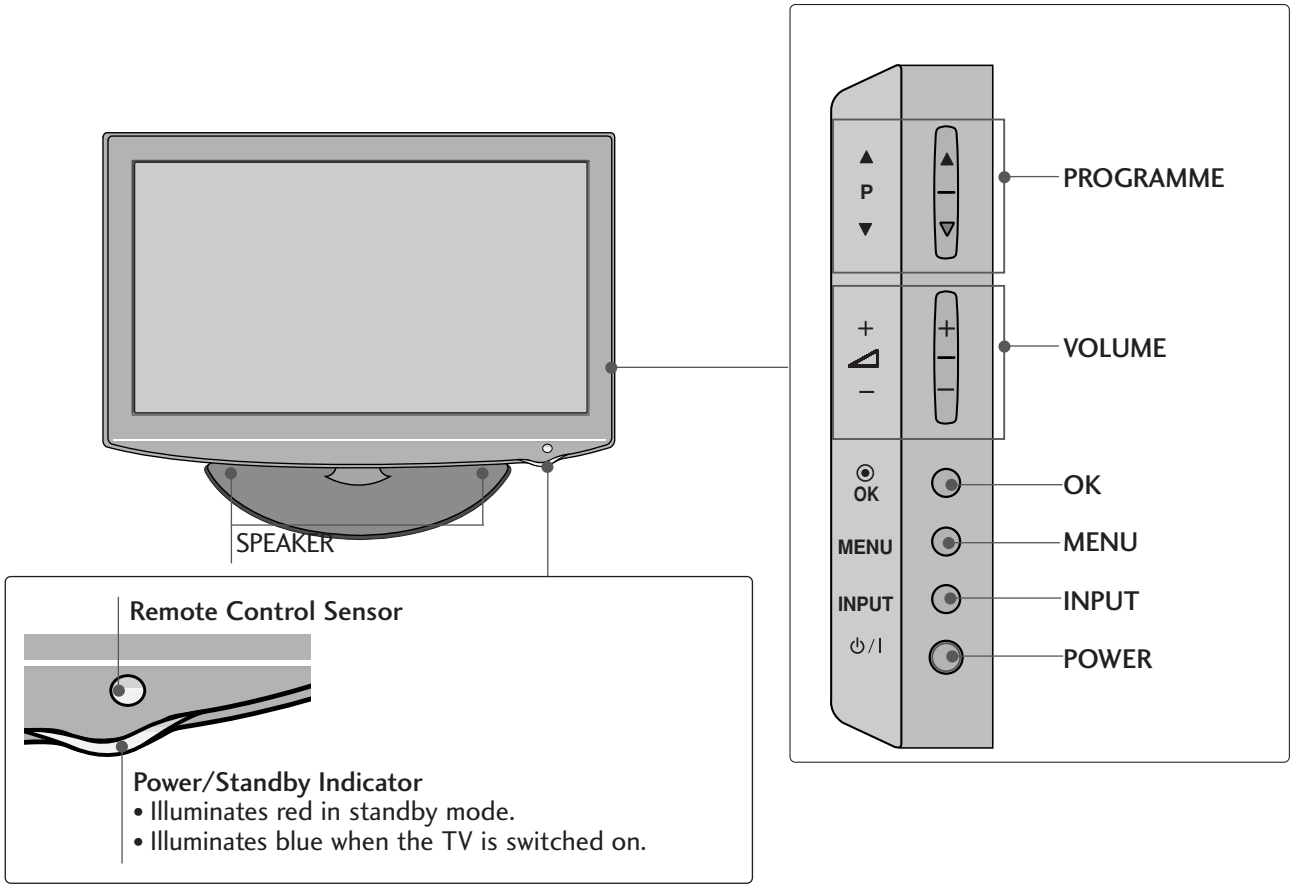
▶ Do not step on the glass stand or subject it to any impact.
It may break, causing possible injury from fragments of glass, or the TV may fall.
▶ Do not drag the TV. The floor or the product may be damaged.

■ Image shown may be somewhat different from your TV.



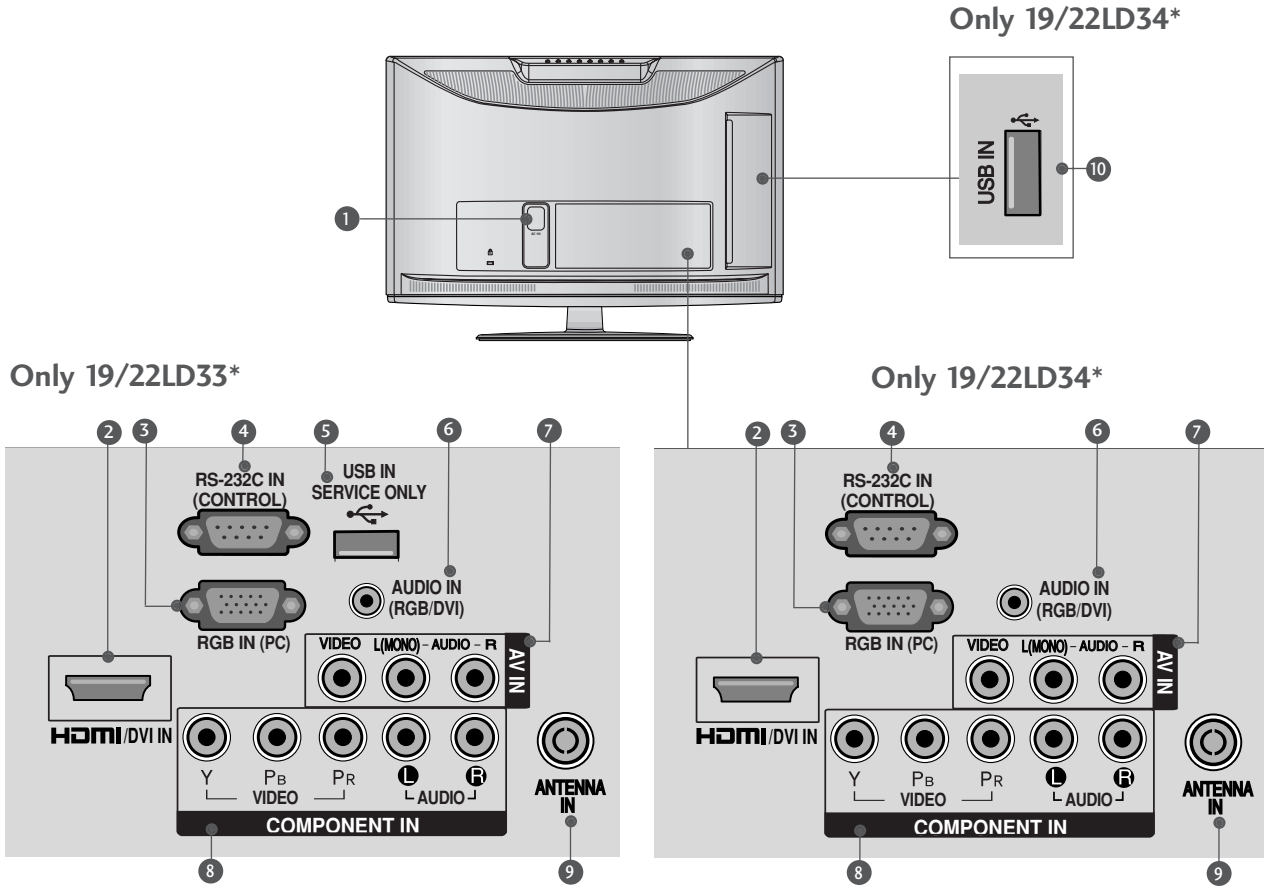
■ Image shown may be somewhat different from your TV.

Only 32/42LD4****



BACK PANEL INFORMATION

■ Image shown may be somewhat different from your TV.



❶ 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.

❷ HDMI Input

Connect a HDMI signal to HDMI IN.

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

❸ RGB IN Input

Connect the output from a PC.

❹ RS-232C IN PORT

Connect to the RS-232C port on a PC.

This port is used for Service or Hotel mode.

❺ SERVICE ONLY PORT

❻ RGB/DVI Audio Input

Connect the audio from a PC.

❼ Audio/Video Input

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

❽ Component Input

Connect a component video/audio device to these jacks.

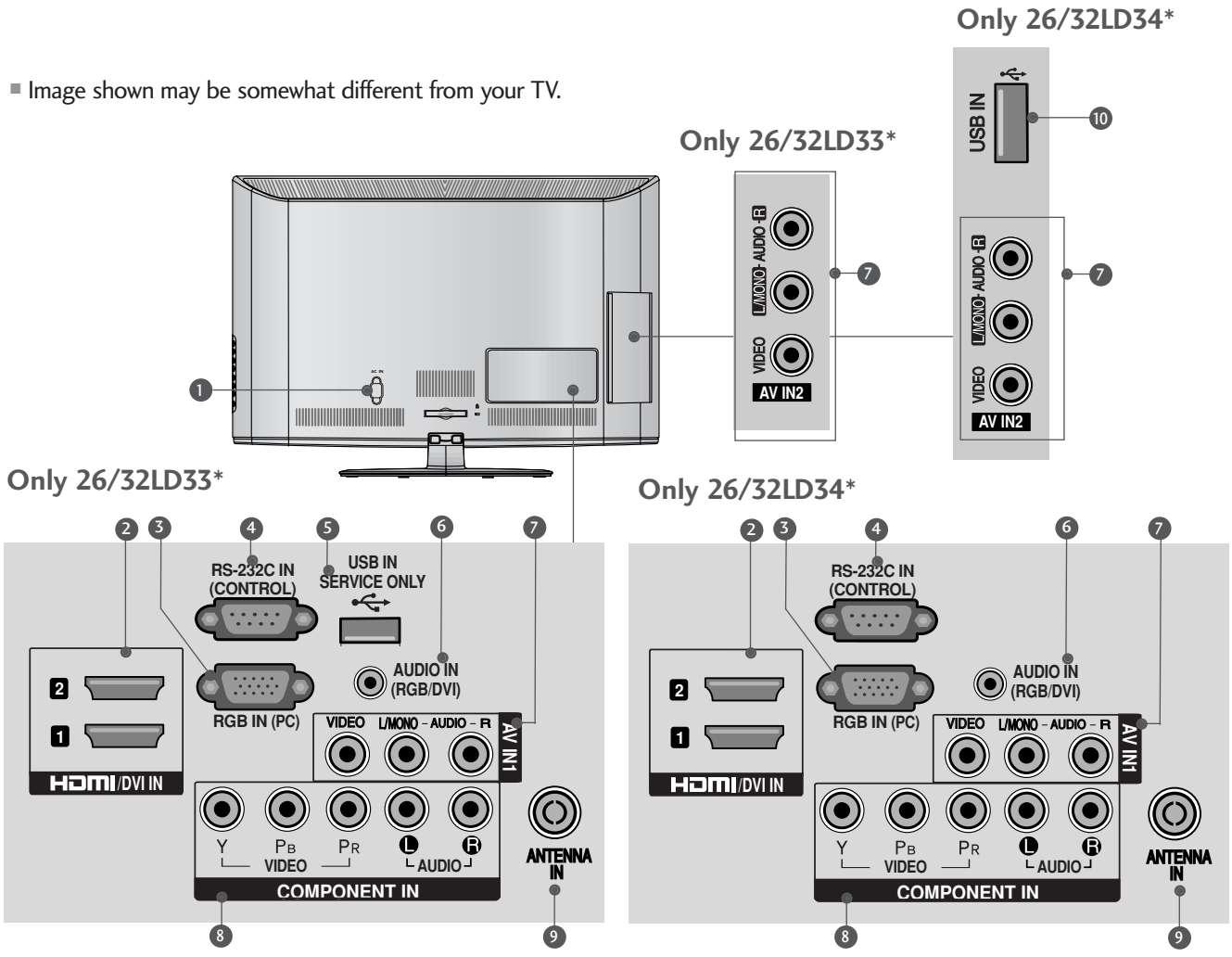
❾ Antenna Input

Connect RF antenna to this jack.

❿ USB IN Input

Connect USB storage device to this jack.

■ Image shown may be somewhat different from your TV.



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Connect the audio from a PC.

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Connect a component video/audio device to these jacks.

❾ Antenna Input

Connect RF antenna to this jack.

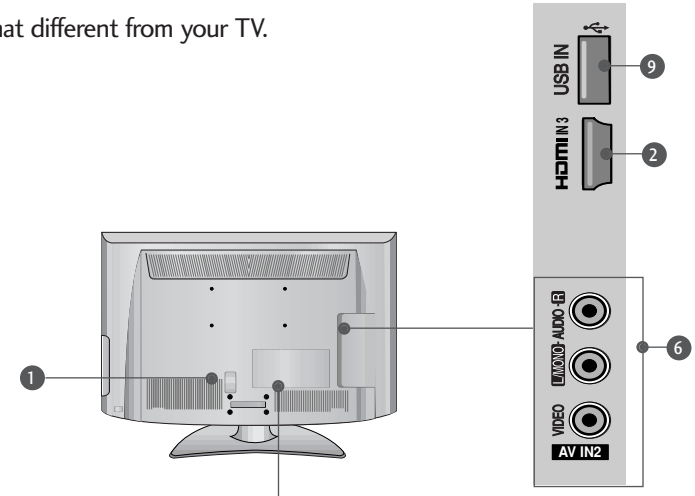
❿ USB IN Input

Connect USB storage device to this jack.

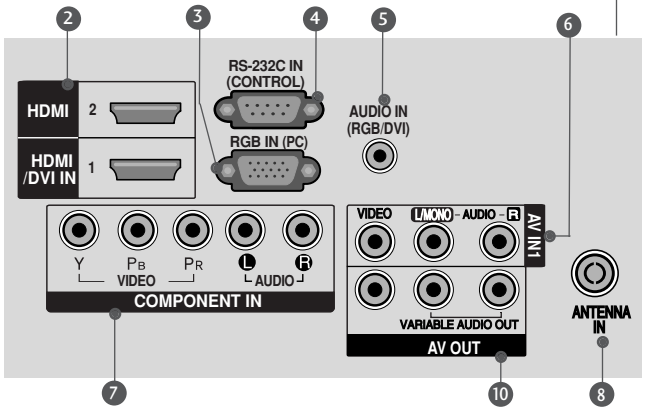
PREPARATION

■ Image shown may be somewhat different from your TV.

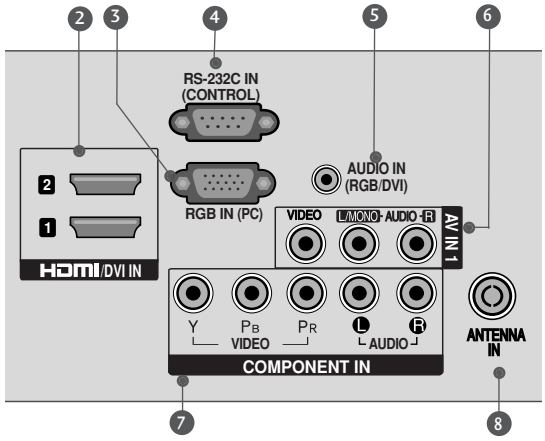
Only 32/42LD4**



Only 32LD4**



Only 42LD4**



❶ **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.

❷ **HDMI Input**

Connect a HDMI signal to HDMI IN.

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

❸ **RGB IN Input**

Connect the output from a PC.

❹ **RS-232C IN PORT**

Connect to the RS-232C port on a PC.

This port is used for Service or Hotel mode.

❺ **RGB/DVI Audio Input**

Connect the audio from a PC.

❻ **Audio/Video Input**

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

❼ **Component Input**

Connect a component video/audio device to these jacks.

❽ **Antenna Input**

Connect RF antenna to this jack.

❾ **USB IN Input**

Connect USB storage device to this jack.

❿ **AV Output**

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

Variable Audio Output

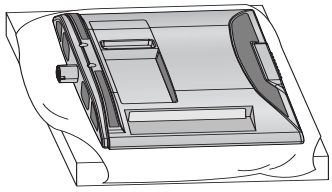
Connect an external amplifier or add a subwoofer to your surround sound system.

STAND INSTALLATION

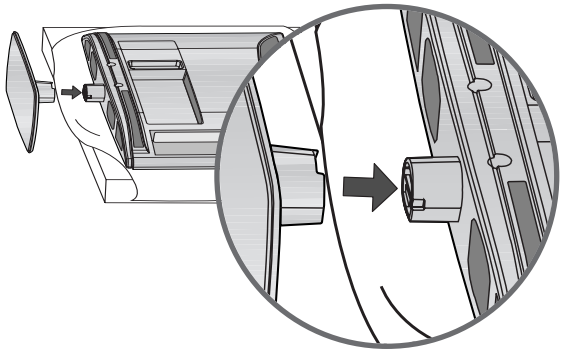
- Image shown may be somewhat different from your TV.
- When assembling the desk type stand, check whether the bolt is fully tightened. (If not tightened fully, the product can tilt forward after the product installation.) If you tighten the bolt with excessive force, the bolt can deviate from abrasion of the tightening part of the bolt.

Only 19/22LD3**

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

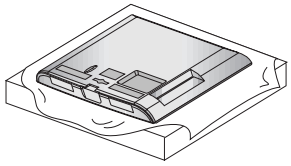


2. Assemble the TV as shown.

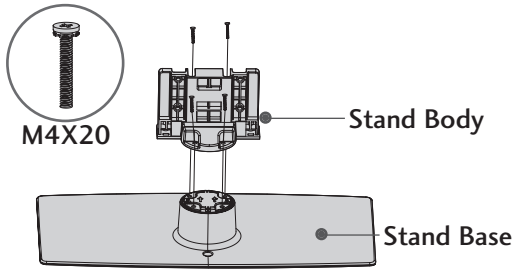


Only 26/32LD3**

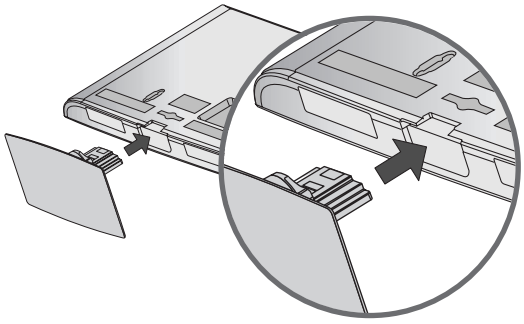
1. Carefully place the TV screen side down on a cushioned surface to protect the screen from damage.



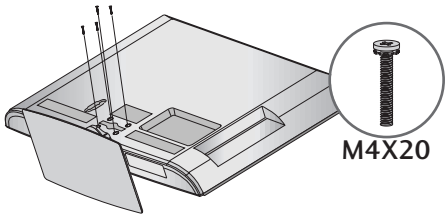
2. Assemble the parts of the **Stand Body** with the **Stand Base** of the TV.



3. Assemble the TV as shown.

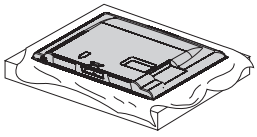


4. Fix the 4 bolts securely using the holes in the back of the TV.

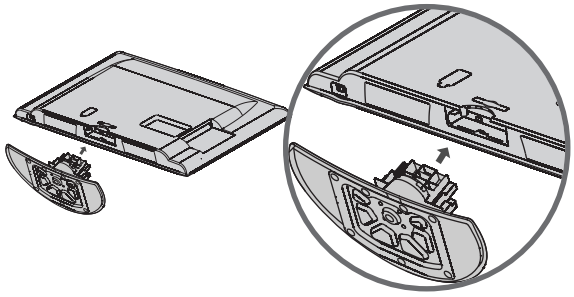


Only 32/42LD4

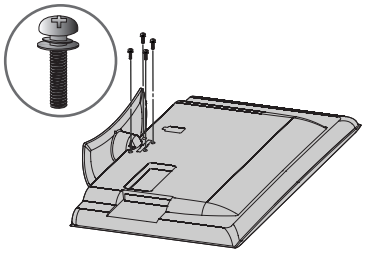
1 Carefully place the TV screen side down on a cushioned surface to protect the screen from damage.



2 Assemble the TV as shown.



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

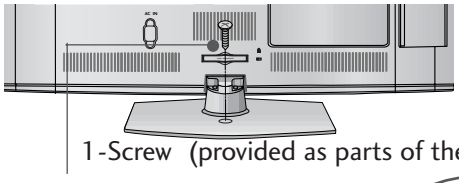


ATTACHING THE TV TO A DESK

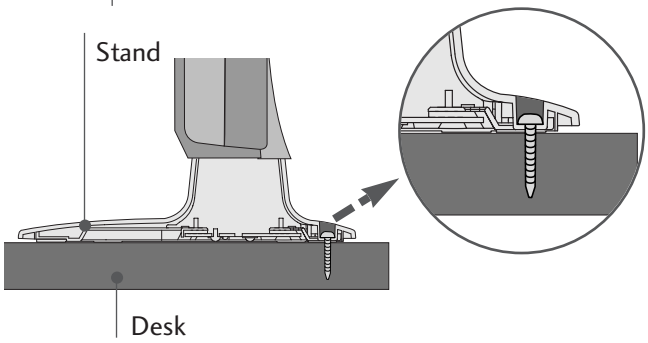
■ Image shown may be somewhat different from your TV.

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.

Only 26/32LD3, 32/42LD4****



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.

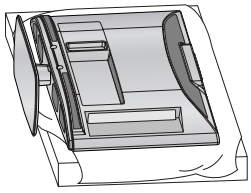
NOT USING THE DESK-TYPE STAND

■ Image shown may be somewhat different from your TV.

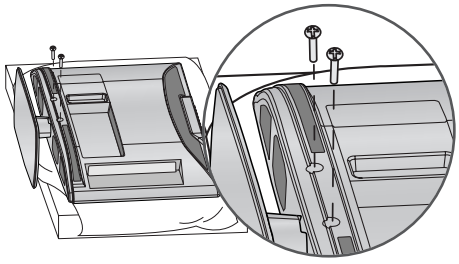
When installing the wall-mounted unit, use the protection cover.

Only 19/22LD3**

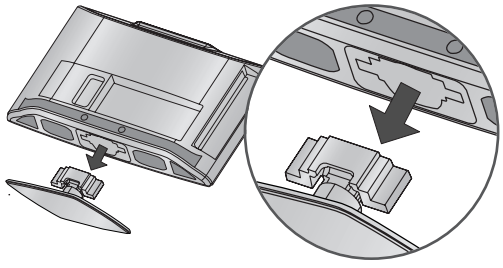
1 Carefully place the TV screen side down on a cushioned surface to protect the screen from damage.



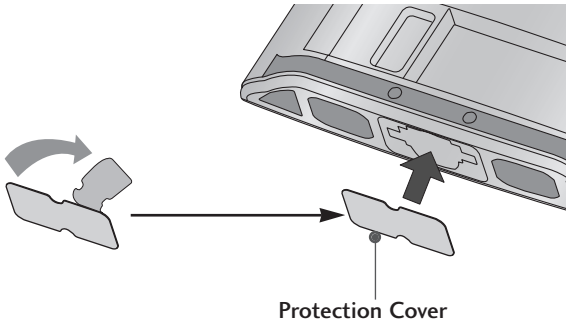
2 Loose the bolts from TV.



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

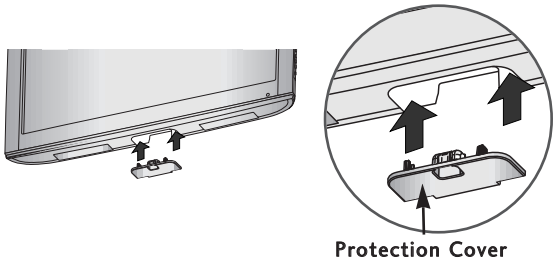


4 After removing the protection paper from the protection cover, adhere it to the TV as shown.



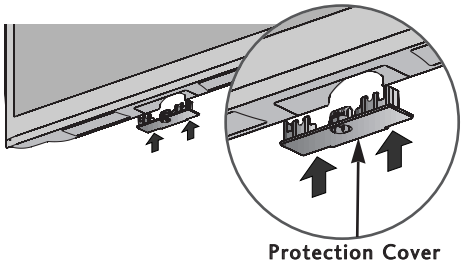
Only 26/32LD3**

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



Only 32/42LD4**

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

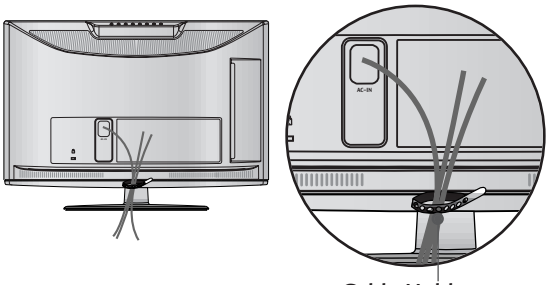


BACK COVER FOR WIRE ARRANGEMENT

■ Image shown may be somewhat different from your TV.

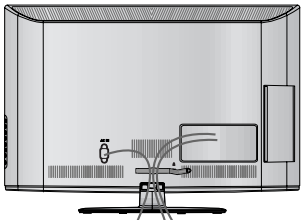
Only 19/22LD3**

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

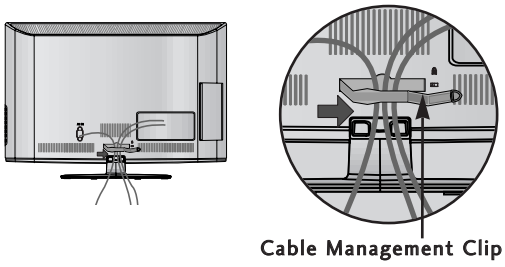


Only 26/32LD3**, 32/42LD4**

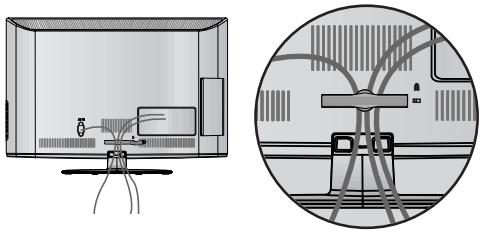
1 Connect the cables as necessary.
To connect additional equipment, see the **External Equipment Setup** section of the manual.



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



3 Fit the **Cable Management Clip** as shown.



NOTE

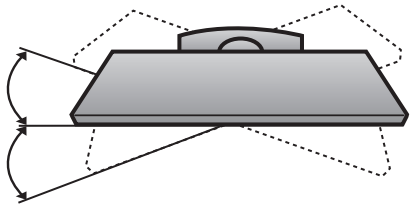
►Do not use the **Cable Management Clip** to lift the TV.

- If the TV is dropped, you may be injured or the TV may be damaged.

SWIVEL STAND
(Except 19/22LD3)**

■ This feature is not available for all models.

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

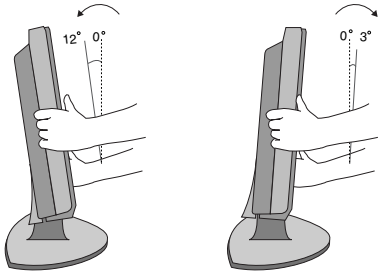


POSITIONING YOUR DISPLAY
(Only 19/22LD3)**

■ Image shown may be somewhat different from your TV.

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

• **Tilt range**



KENSINGTON SECURITY SYSTEM

■ This feature is not available for all models.
■ Image shown may be somewhat different from your TV.

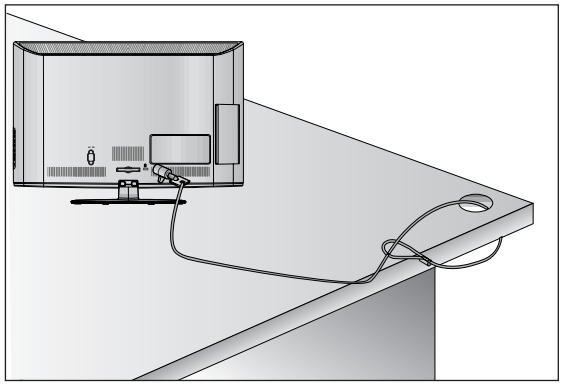
The TV is equipped with a Kensington Security System connector on the back panel. Connect the Kensington Security System cable as shown below.

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.

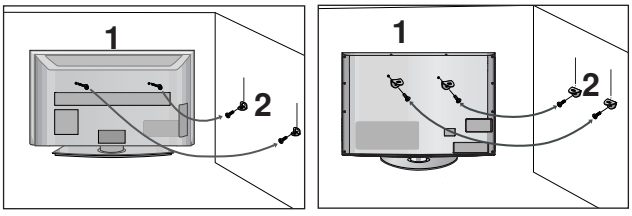
NOTE

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



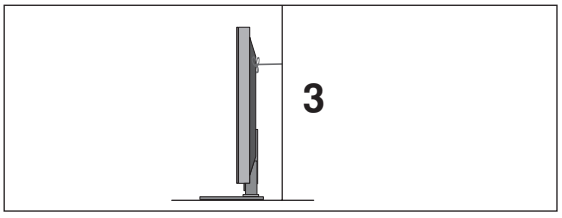
CAREFUL INSTALLATION ADVICE

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



1. Use the eye-bolts or TV brackets/bolts to fix the product to the wall as shown in the picture.
   (If your TV has bolts in the eyebolts, loosen then bolts.)
   * Insert the eye-bolts or TV brackets/bolts and tighten them securely in the upper holes.

2. Secure the wall brackets with the bolts on the wall. Match the height of the bracket that is mounted on the wall.



3. 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.

NOTE

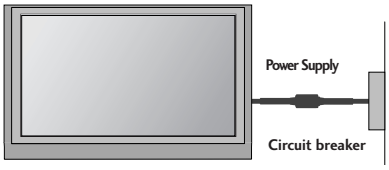
- ▶ When moving the TV undo the cords first.
- ▶ Use a platform or cabinet strong and large enough to support the size and weight of the TV.
- ▶ To use the TV safely make sure that the height of the bracket on the wall and on the TV is the same.

- **The TV can be installed in various ways such as on a wall, or on a desktop etc.**
- **The TV is designed to be mounted horizontally.**

EARTHING

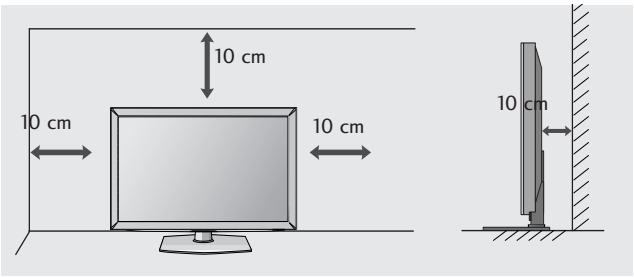
Ensure that you connect the earth wire to prevent possible electric shock. If grounding methods are not possible, have a qualified electrician install a separate circuit breaker.

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



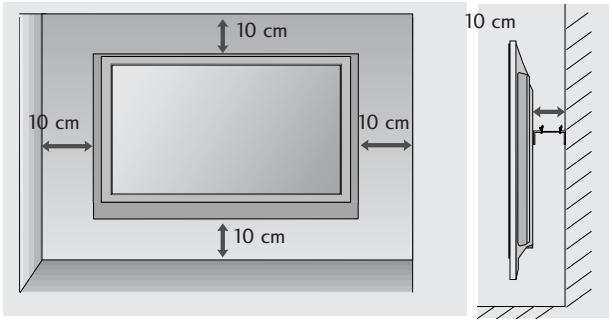
DESKTOP PEDESTAL INSTALLATION

For adequate ventilation allow a clearance of 10 cm all around the TV.



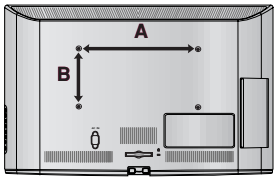
WALL MOUNT: HORIZONTAL INSTALLATION

- 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.



NOTE

- 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.
  - Incorrect fastening of screws to surface which may cause TV to fall and cause personal injury.
  - Not following the recommended Installation method.



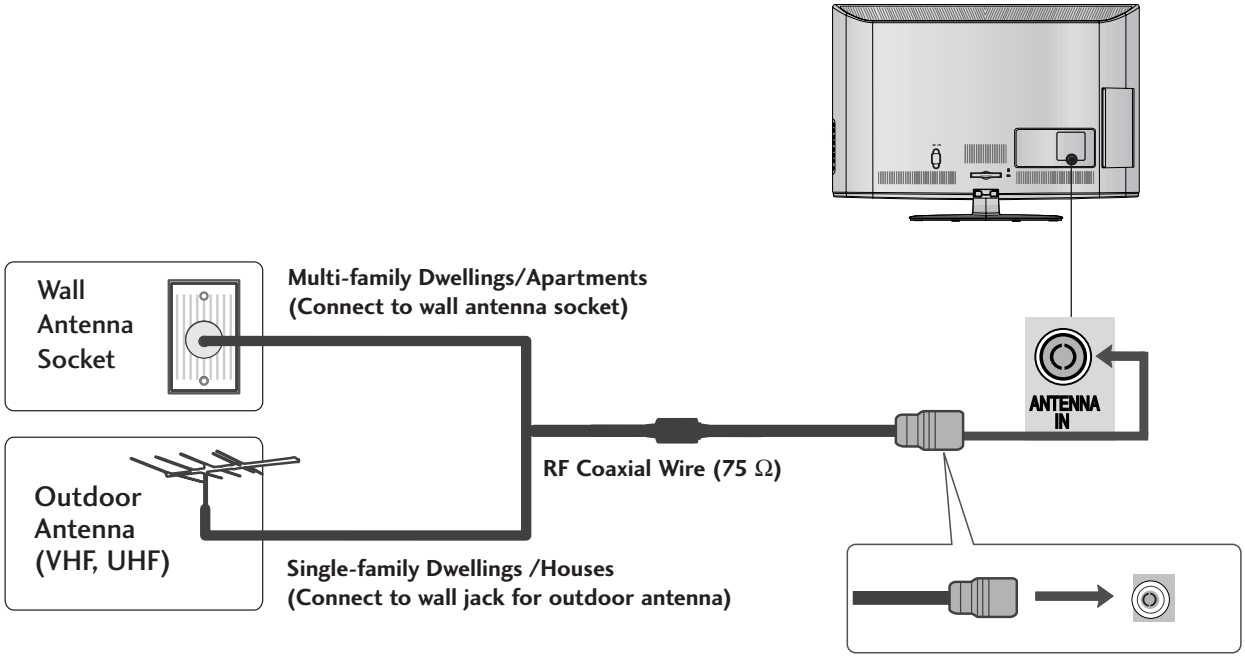
Model	VESA (A * B)	Standard Screw	Quantity
19LD3**	100 * 100	M4	4
22LD3**	100 * 100	M4	4
26LD3**	200 * 100	M4	4
32LD3**	200 * 100	M4	4
32LD4**	200 * 100	M4	4
42LD4**	200 * 200	M6	4

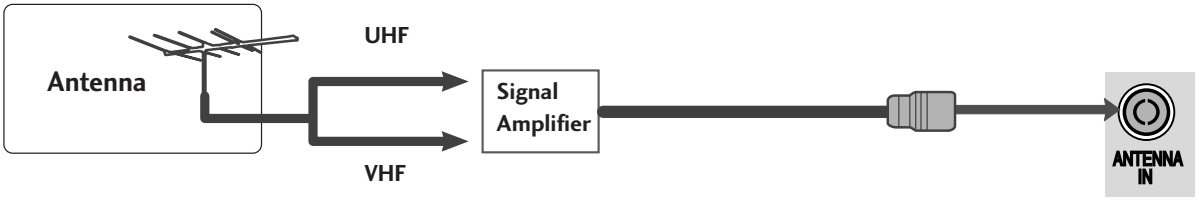
PREPARATION

■ 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.

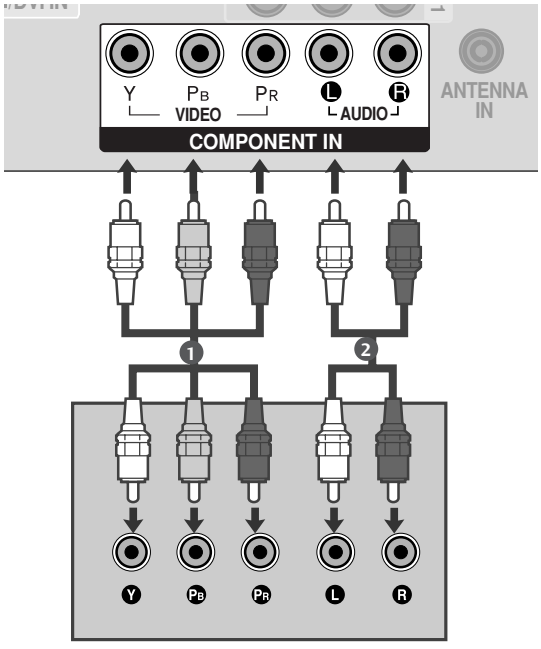
EXTERNAL EQUIPMENT SETUP

- **To avoid damaging any equipment, never plug in any power cords until you have finished connecting all equipment.**
- **This section on External Equipment Setup mainly uses diagrams for the 26/32LD33* models.**
- Image shown may be somewhat different from your TV.

HD RECEIVER SETUP

Connecting with a component cable

1. Connect the video outputs (Y, PB, PR) of the digital set top box to the **COMPONENT IN VIDEO** jacks on the TV.
2. Connect the audio output of the digital set-top box to the **COMPONENT IN AUDIO** jacks on the TV.
3. Turn on the digital set-top box.
   (Refer to the owner's manual for the digital set-top box.)
4. Select **Component** input source using the **INPUT** button on the remote control.



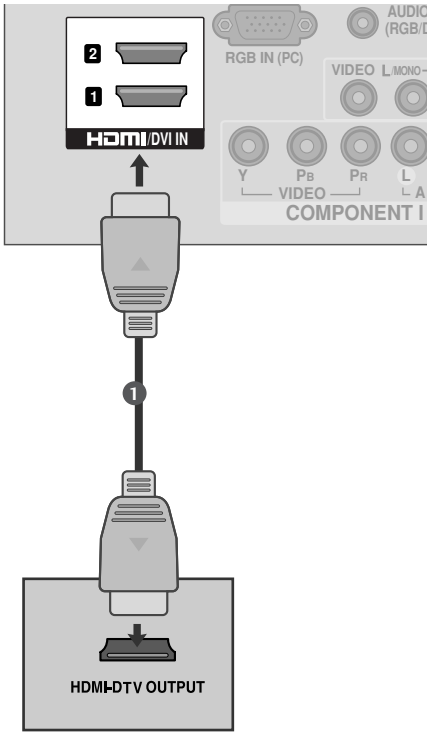
Signal	Component	HDMI
480i / 576i	O	X
480p / 576p	O	O
720p / 1080i	O	O
1080p	O (50 Hz / 60 Hz only)	O (24 Hz / 30 Hz / 50 Hz / 60 Hz)

Connecting a set-top box with an HDMI cable

1. Connect the digital set-top box to **HDMI/DVI IN 1**, **HDMI/DVI IN 2** (Except 19/22LD3**) or **HDMI IN 3** (Only 32/42LD4**) jack on the TV.

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

3. Select **HDMI1**, **HDMI2** (Except 19/22LD3**) or **HDMI3** (Only 32/42LD4**) input source using the **INPUT** button on the remote control.



NOTE

- 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.
- We recommed less than 10m for HDMI cable, and recommend to use amplifier or repeater for more than that.

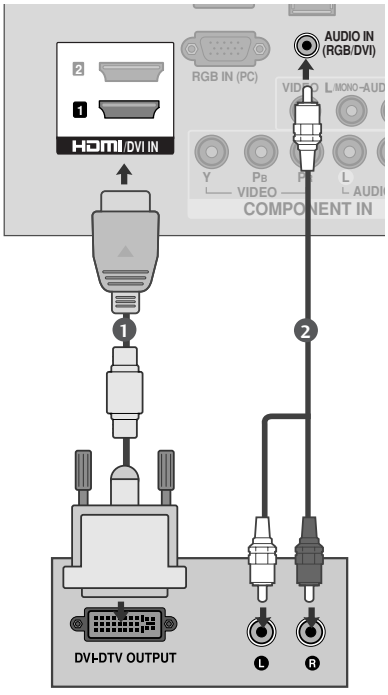
Connecting with an HDMI to DVI cable

1. Connect the digital set-top box to **HDMI/DVI IN 1** jack on the TV.

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

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

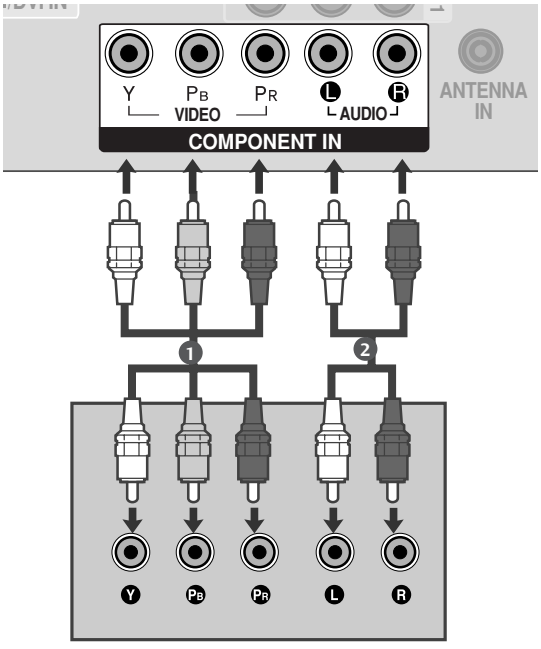
4. Select **HDMI1** input source using the **INPUT** button on the remote control.



DVD SETUP

Connecting with a component cable

1. Connect the video outputs (Y, PB, PR) of the DVD to the **COMPONENT IN VIDEO** jacks on the TV.
2. Connect the audio outputs of the DVD to the **COMPONENT IN AUDIO** jacks on the TV.
3. Turn on the DVD player, insert a DVD.
4. Select **Component** input source using the **INPUT** button on the remote control.
5. Refer to the DVD player's manual for operating instructions.



Component Input ports

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

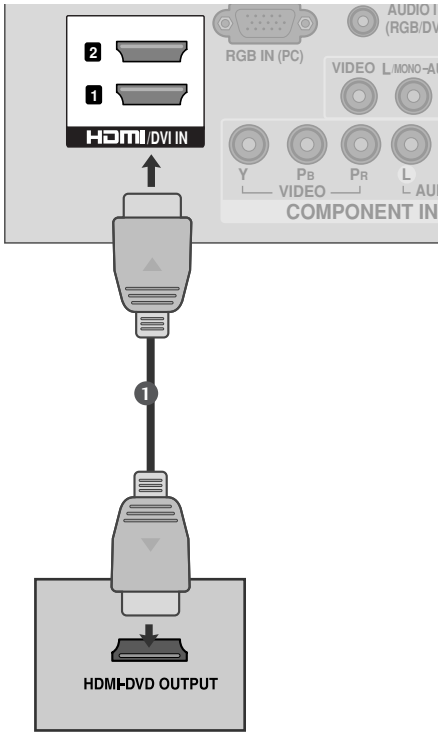
Component ports on the TV	Y	PB	PR
Video output ports on DVD player	Y	PB	PR
	Y	B-Y	R-Y
	Y	Cb	Cr
	Y	Pb	Pr

Connecting the HDMI cable

1. Connect the HDMI output of the DVD to the **HDMI/DVI IN 1**, **HDMI/DVI IN 2**(Except 19/22LD3**) or **HDMI IN 3**(Only 32/42LD4**) jack on the TV.

2. Select **HDMI1**, **HDMI2**(Except 19/22LD3**) or **HDMI3**(Only 32/42LD4**) input source using the **INPUT** button on the remote control.

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



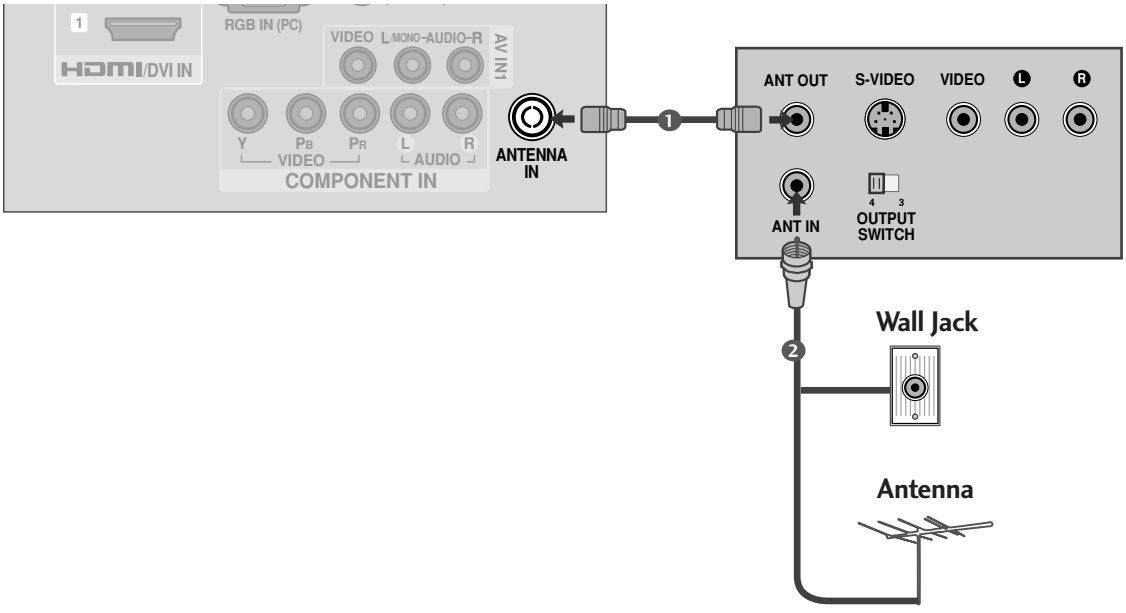
NOTE

- ▶The TV can receive video and audio signals simultaneously when using a HDMI cable.
- ▶If the DVD does not support Auto HDMI, you must set the output resolution appropriately.
- ▶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.
- ▶We recommed less than 10m for HDMI cable, and recommend to use amplifier or repeater for more than that.

VCR SETUP

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

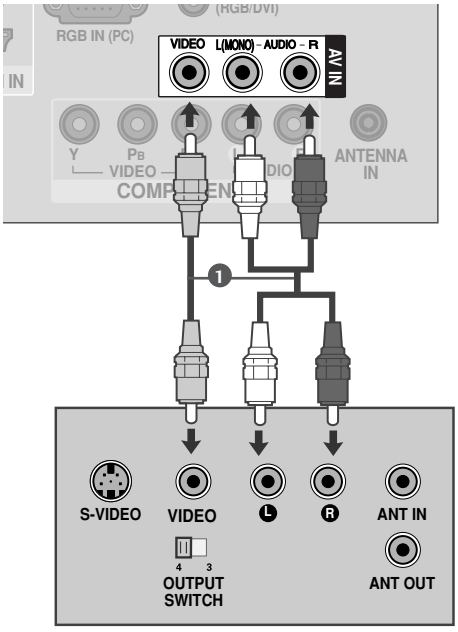
Connecting with a RF Cable



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

Connecting with a RCA cable

1. Connect the **AUDIO/VIDEO** jacks between TV and VCR. Match the jack colours (Video = yellow, Audio Left = white, and Audio Right = red)
2. Insert a video tape into the VCR and press PLAY on the VCR. (Refer to the VCR owner's manual.)
3. Select **AV1** input source using the **INPUT** button on the remote control.
   If connected to **AV IN2**, select **AV2**input source.

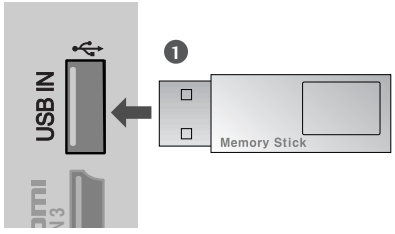


NOTE

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

USB IN SETUP (Except 19/22/26/32LD33*)

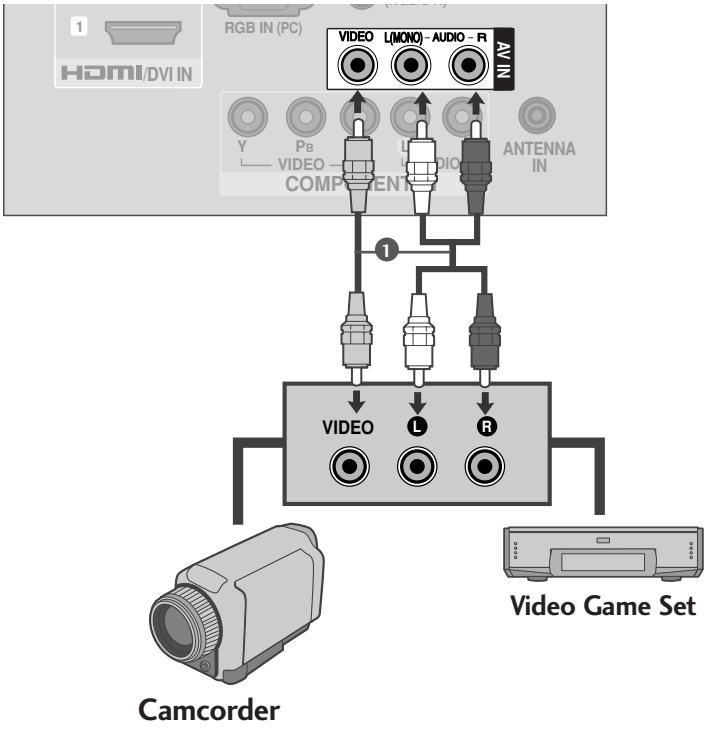
■ Image shown may be somewhat different from your TV.



1. Connect the USB device to the **USB IN** jacks on the side of TV.
2. After connecting the **USB IN** jacks, you use the **USB** function. (▶ p.53)

EXTERNAL EQUIPMENT SETUP

OTHER A/V SOURCE SETUP



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

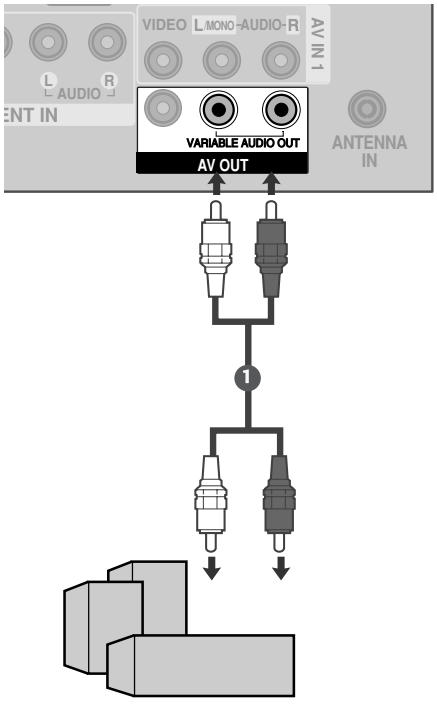
2. Select **AV1** input source with using the **INPUT** button on the remote control.
If connected to **AV IN2**, select **AV2** input source.

3. Operate the corresponding external equipment.
Refer to external equipment operating guide.

EXTERNAL STEREO SETUP (Only 32LD4**)

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

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



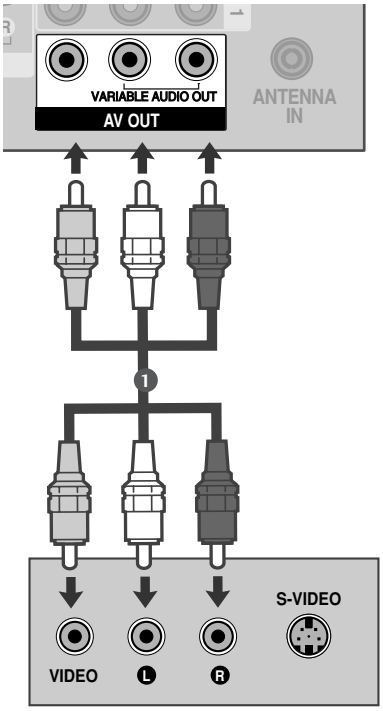
NOTE

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

AV OUTPUT SETUP (Only 32LD4**)

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

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



NOTE

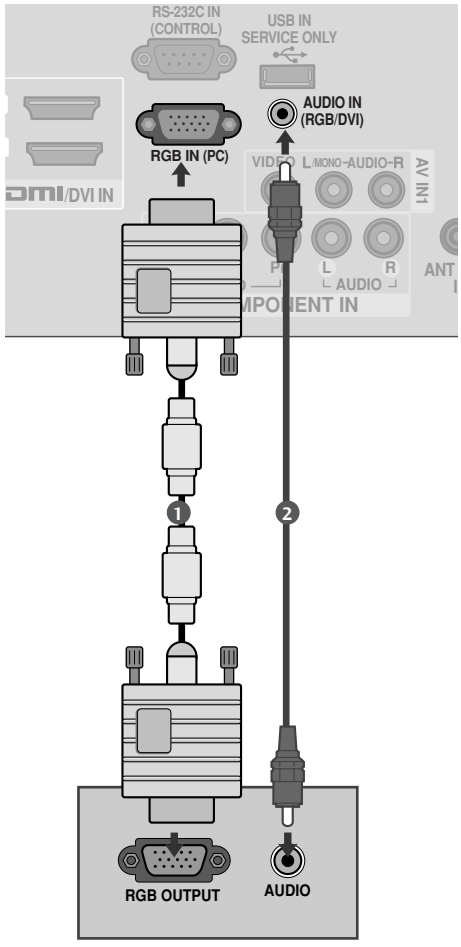
- Component, RGB, HDMI input sources cannot be used for AV out.
- We recommend to use the AV OUT jacks for VCR recording.

PC SETUP

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

Connecting with a D-sub 15 pin cable

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 TV and the PC.
4. Select **RGB** input source using the **INPUT** button on the remote control.



Supported Display Resolution

RGB-PC mode

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

Only 32/42LD4**

HDMI-DTV mode

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

NOTE

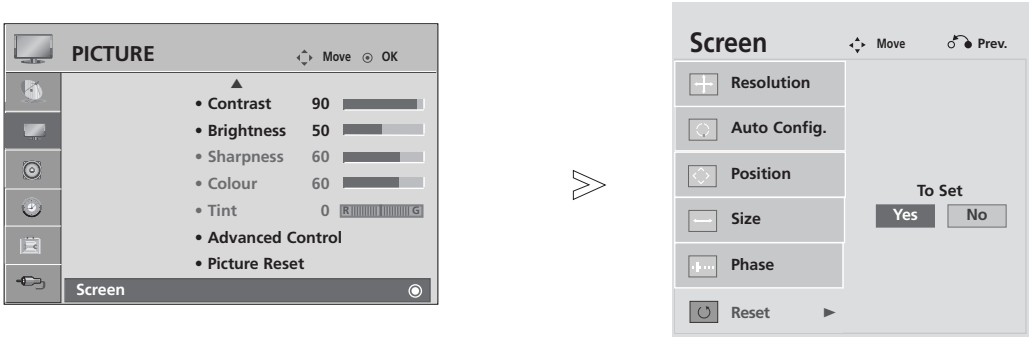
- Avoid keeping a fixed image on the TV 's screen for prolonged periods of time.The fixed image may become permanently imprinted on the screen;use a screen saver when possible.
- There may be interference relating to resolution, vertical pattern, contrast or brightness in PC mode. Change the PC mode 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.
- If the resolution of PC is over SXGA, there will be no picture on the TV.(only HD Models)
- Connect the audio cable from the PC to the Audio input on the TV.(Audio cables are not included with the TV).
- If you use too long an RGB-PC cable, there may be interference on the screen. We recommend using under 5m of the cable. This provides the best picture quality.
- We recommend using 1360 x 768, 60 Hz (Only 19/22/26/32LD3**), 1920 x 1080, 60 Hz (Only 32/42LD4**) for the PC mode, these should provide the best picture quality.
- HDMI mode supports PCM audio format only.
- If the Audio setting is set to Dolby/DTS/Bitstream in some DVDP/STB, make sure to change the setting to PCM.

Screen Setup for PC mode

Screen Reset

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

This function works in the following mode : RGB[PC], Component(except 480i, 576i).



1 MENU Select **PICTURE**.

2 OK Select **Screen**.

3 OK Select **Reset**.

4 OK Select **Yes**.

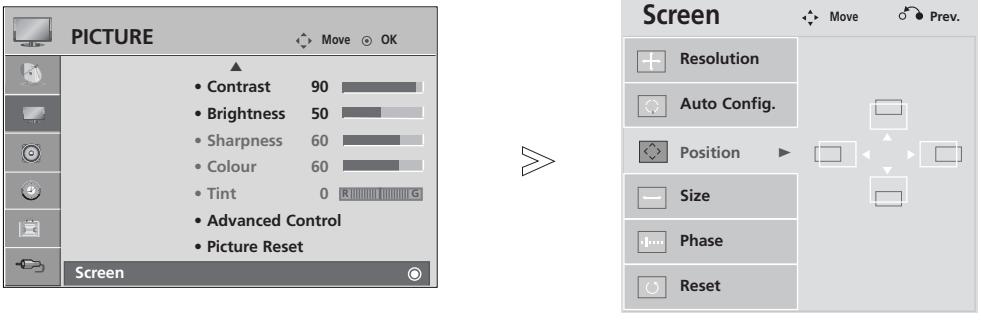
5 OK Run **Reset**.

- Press the **MENU/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.



1 MENU Select **PICTURE**.

2 OK Select **Screen**.

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

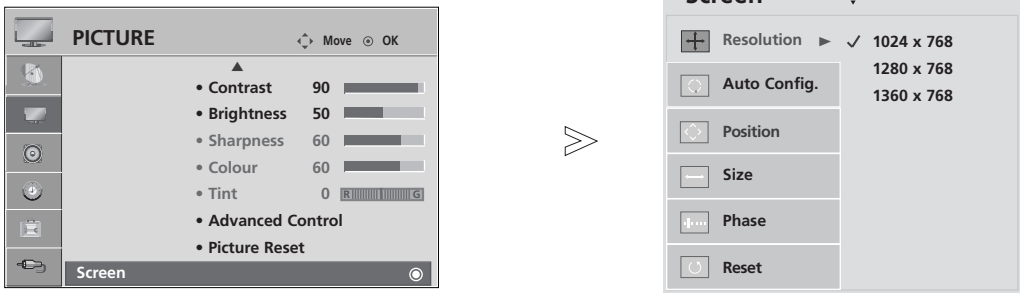
4 Make appropriate adjustments.

- Press the **MENU/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 and selection of PC mode.

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



1 MENU Select **PICTURE**.

2 OK Select **Screen**.

3 OK Select **Resolution**.

4 Select the desired resolution.

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

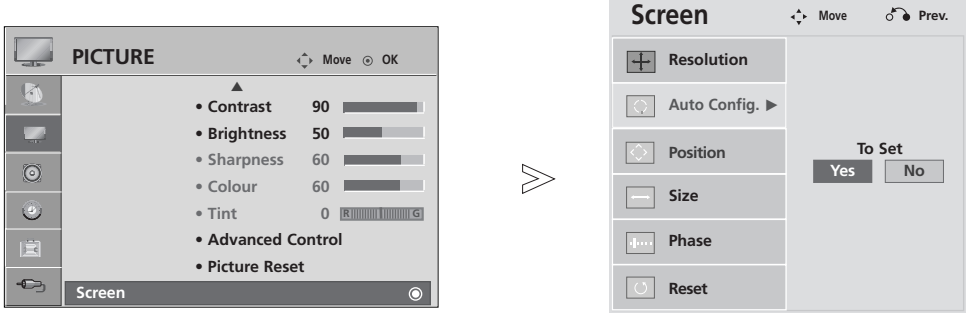
Auto Configure (RGB [PC] mode only)

Automatically adjusts 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.



1 MENU Select **PICTURE**.

2 OK Select **Screen**.

3 OK Select **Auto Config.**.

4 OK Select **Yes**.

5 OK Run **Auto Config.**.

- If the position of the image is still not correct, try Auto adjustment again.
- If picture needs to be adjusted again after Auto adjustment in RGB(PC), you can adjust the **Position**, **Size** or **Phase**.

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

WATCHING TV / PROGRAMME CONTROL

REMOTE CONTROL KEY FUNCTIONS (Only 19/22/26/32LD33*)

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



(POWER)	Switches the TV on from standby or off to standby.
ENERGY SAVING	Adjust the power saving mode of the TV.
AV MODE	It helps you select and set images and sounds when connecting AV devices.(▶ p.52)
INPUT	External input mode rotate in regular sequence.
TV	Selects TV channel.

0 to 9 number button	Selects a programme. Selects numbered items in a menu.
LIST	Displays the programme table.
Q.VIEW	Returns to the previously viewed programme.
VOLUME UP /DOWN	Adjusts the volume.
MARK/FAV	Displays the selected favourite programme.
RATIO	Selects your desired picture format.
MUTE	Switches the sound on or off.
Programme UP/DOWN	Selects a programme.
PAGE UP/DOWN	Move from one full set of screen information to the next one.

Coloured buttons	These buttons are used for teletext (on **TELETEXT** models only), **Programme edit**.

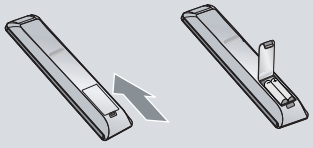
1	TELETEXT BUTTONS	These buttons are used for teletext. For further details, see the 'Teletext' section.(▶ p.94)



MENU	Selects a menu. Clears all on-screen displays and returns to TV viewing from any menu.
CLEAR VOICE II	Helps users listen to human voices better.
Q. MENU	Select the desired quick menu source.(▶ p.37)
BACK	Allows the user to move return one step in an interactive application or other user interaction function.
EXIT	Clears all on-screen displays and returns to TV viewing from any menu.
SIMPLINK	See a list of AV devices connected to TV. When you toggle this button, the Simplink menu appears at the screen.(▶ p.48)
THUMBSTICK (Up/Down/Left/Right)	Allows you to navigate the on-screen menus and adjust the system settings to your preference.
OK	Accepts your selection or displays the current mode.

SIMPLINK Menu control buttons	Controls SIMPLINK menu.

Installing Batteries



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

REMOTE CONTROL KEY FUNCTIONS (Except 19/22/26/32LD33*)

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



(POWER)	Switches the TV on from standby or off to standby.
ENERGY SAVING	Adjust the power saving mode of the TV.
AV MODE	It helps you select and set images and sounds when connecting AV devices.(▶ p.52)
INPUT	External input mode rotate in regular sequence.
TV	Selects TV channel.

0 to 9 number button	Selects a programme. Selects numbered items in a menu.
LIST	Displays the programme table.
Q.VIEW	Returns to the previously viewed programme.
VOLUME UP /DOWN	Adjusts the volume.
MARK	Check and un-check programmes in the USB menu
FAV	Displays the selected favourite programme.
RATIO	Selects your desired picture format.
MUTE	Switches the sound on or off.
Programme UP/DOWN	Selects a programme.
PAGE UP/DOWN	Move from one full set of screen information to the next one.

Coloured buttons	These buttons are used for teletext (on **TELETEXT** models only), **Programme edit**.

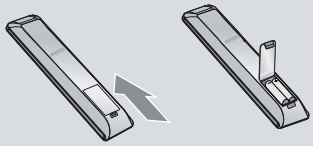
1	TELETEXT BUTTONS	These buttons are used for teletext. For further details, see the 'Teletext' section.(▶ p.94)



MENU	Selects a menu. Clears all on-screen displays and returns to TV viewing from any menu.
XSTUDIO	Enter to the XSTUDIO mode.
Q. MENU	Select the desired quick menu source.(▶ p.37)
BACK	Allows the user to move return one step in an interactive application or other user interaction function.
EXIT	Clears all on-screen displays and returns to TV viewing from any menu.
SIMPLINK	See a list of AV devices connected to TV. When you toggle this button, the Simplink menu appears at the screen.(▶ p.48)
THUMBSTICK (Up/Down/Left/Right)	Allows you to navigate the on-screen menus and adjust the system settings to your preference.
OK	Accepts your selection or displays the current mode.

SIMPLINK / USB Menu control buttons	Controls SIMPLINK or USB menu.

Installing Batteries



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

WATCHING TV / PROGRAMME CONTROL

TURNING ON THE TV

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

1. Firstly, connect the power cord correctly.
   At this stage, the TV switches to standby mode.
2. In standby mode to turn TV on, press the ⏻ / **I**, **INPUT** or **P** ▲ or ▼(or **P** ^ v) button on the TV or press the **POWER**, **INPUT**, **P** ^ v 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:

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

1. Press the **P** ^ v or **NUMBER** buttons to select a programme number.

VOLUME ADJUSTMENT

1. Press the ◿ **+** or **-** button to adjust the volume.

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

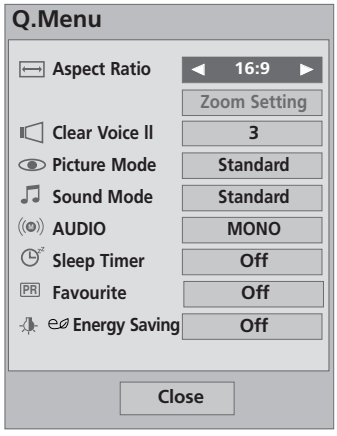
   You can cancel this function by pressing the **MUTE**, ◿ **+** or **-** , AV Mode button.

QUICK MENU

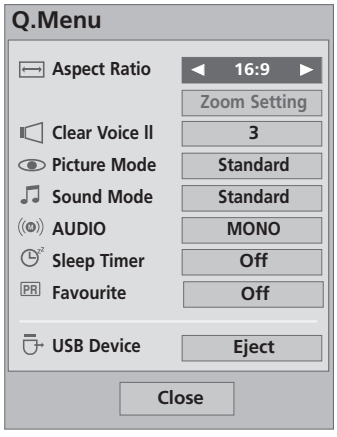
Your TV's OSD (On Screen Display) may differ slightly from that shown in this manual.
Q.Menu (Quick Menu) is a menu of features which users might use frequently.

- **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 On or Off.
- **Energy Saving** : Selects the Energy saving mode. (Only 19/22/26/32LD33*)
- **USB Device** : Selects "Eject" in order to eject USB device.(Except 19/22/26/32LD33*)

Only 19/22/26/32LD33*



Except 19/22/26/32LD33*



1 Q.MENU Display each menu.

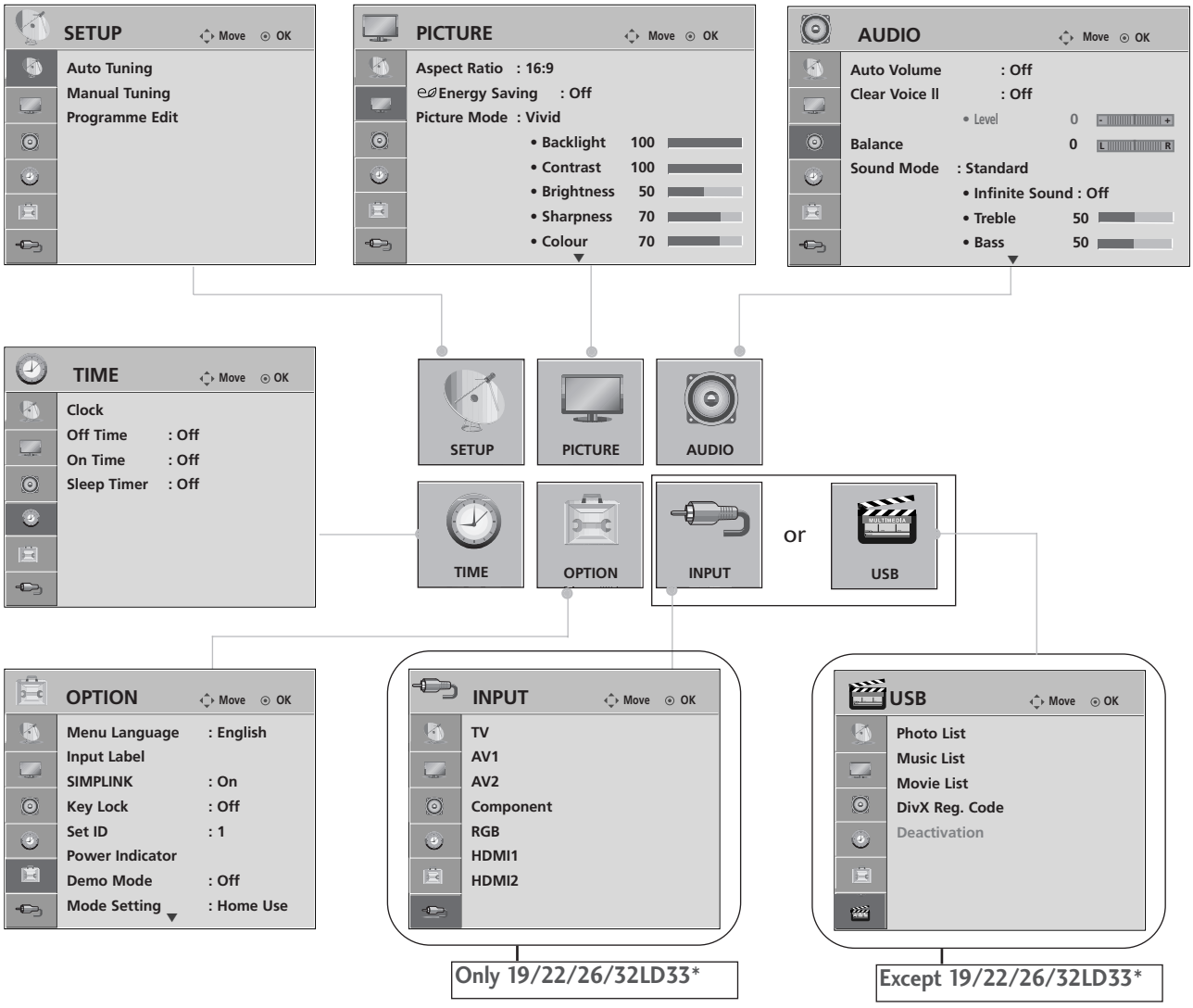
2 Select your desired Source.

3 OK

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

ON SCREEN MENUS SELECTION AND ADJUSTMENT

■ Image shown may be somewhat different from your TV.
Your TV's OSD (On Screen Display) may differ slightly from that shown in this manual.



1 MENU Display each menu.

2 OK Select a menu item.

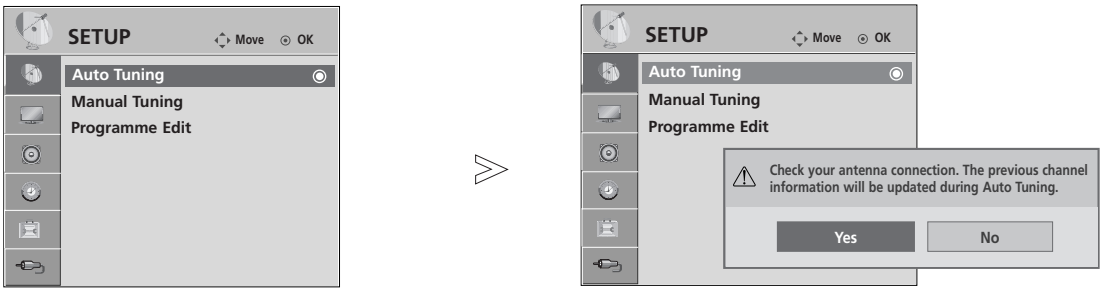
3 OK Move to the pop up menu.

- Press the **MENU/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.



1 MENU Select **SETUP**.

2 OK Select **Auto Tuning**.

3 OK Select **Yes**.

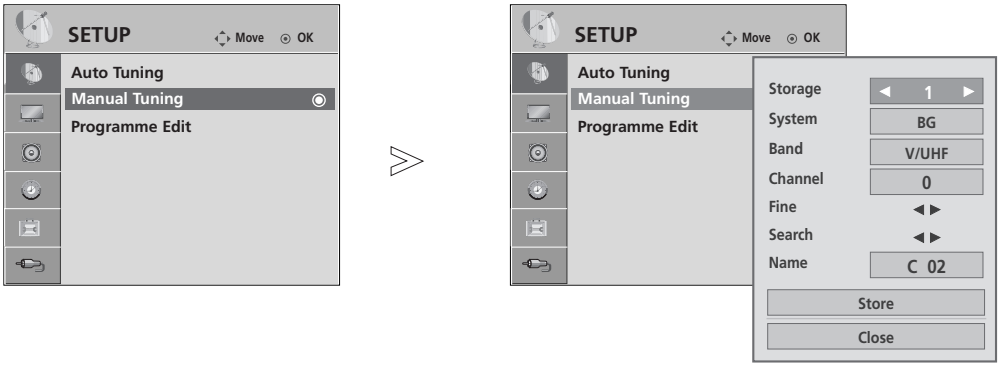
4 OK Run **Auto tuning**.

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

- Press the **MENU/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.



1 MENU Select **SETUP**.

2 OK Select **Manual Tuning**.

3 OK or 1 2 3 4 5 6 7 8 9 0 Select the desired programme number on.

4 Select a TV system.

5 Select **V/UHF** or **Cable**.

6 or 1 2 3 4 5 6 7 8 9 0 Select the desired channel number.

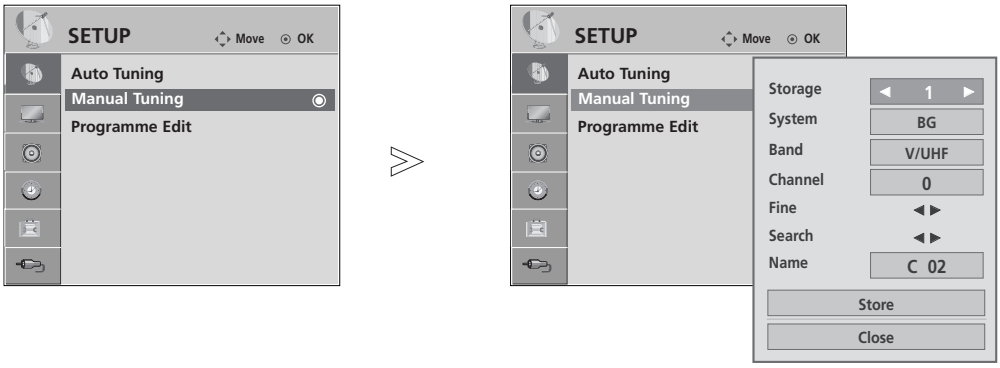
7 Commence searching.

8 OK Select **Store**.

9 OK

- Press the **MENU/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 (Asia / New Zealand / M.East / Africa)
  I : PAL I/II (Hong Kong / South Africa)
  DK : PAL D/K, SECAM D/K (China / Africa)
  M : Philippines
- To store another channel, repeat steps 3 to 9.



■ Assigning a station name

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

1 MENU Select **SETUP**.

2 OK Select **Manual Tuning**.

3 OK Select **Name**.

4 OK OK Select the position and make your choice of the second character, and so on.
You can use an the alphabet **A** to **Z**, the number **0** to **9**, +/ -, and blank.

5 OK Select **Store**.

6 OK

■ Fine Tuning

Normally fine tuning is only necessary if reception is poor.

1 MENU Select **SETUP**.

2 OK Select **Manual Tuning**.

3 OK Select **Fine**.

4 Fine tune for the best picture and sound.

5 OK Select **Store**.

6 OK

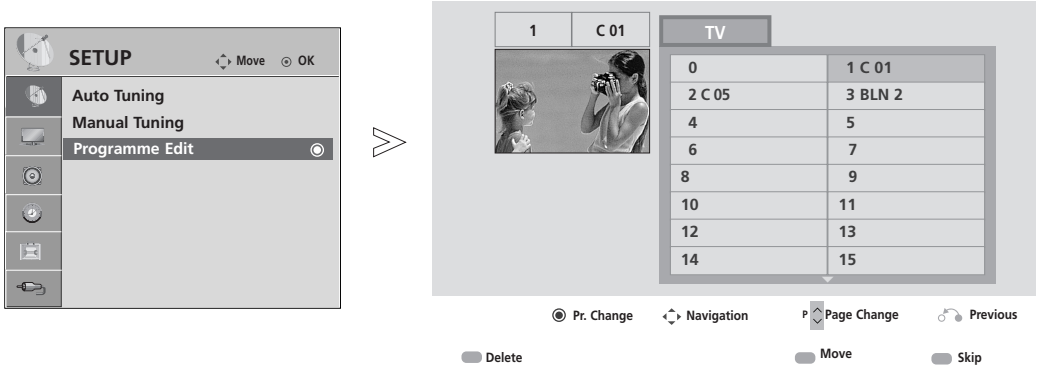
- Press the **MENU/EXIT** button to return to normal TV viewing.
- Press the **BACK** button to move to the previous menu screen.

PROGRAMME EDIT

When a programme number is skipped, it means that you will be unable to select it using P ∧ ∨ 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.



1 MENU Select **SETUP**.

2 OK Select **Programme Edit**.

3 OK Enter the **Programme Edit**.

4 Select a programme to be stored or skipped.

- Press the **MENU/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

1 Select a programme number to be deleted.

2 RED Turn the deleted programme number to RED.

3 RED Release the deleted programme.

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

■ Moving a programme

1 Select a programme number to be moved.

2 YELLOW Turn the moved programme number to YELLOW.

3 YELLOW Release the moved programme.

■ Skipping a programme number

1 Select a programme number to be skipped.

2 BLUE Turn the skipped programme number to BLUE.

3 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

1 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

1 Select a programme.

2 OK Switch to the chosen programme number.

■ Paging through a programme list

1 P PAGE Turn the pages.

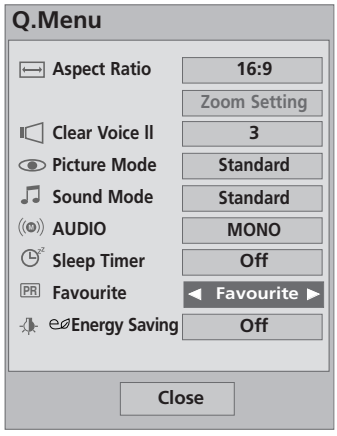
2 LIST Return to normal TV viewing.

FAVOURITE PROGRAMME SETUP

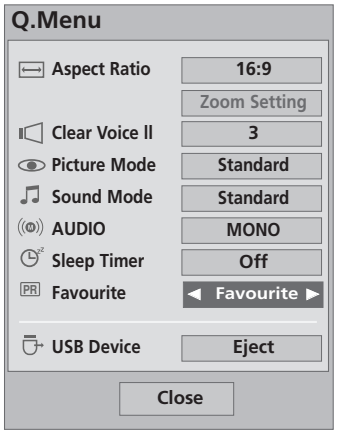
■ Selecting favourite programme

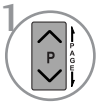
Favorite programmes is a convenient feature that lets you quickly scan up to programmes of your choice without having to wait for the TV to scan through all the in-between programmes.
To tune to a favorite programme, press the **FAV**(Favorite)button repeatedly.

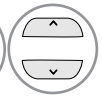
Only 19/22/26/32LD33*

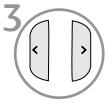


Except 19/22/26/32LD33*



1  or  Select your desired programme.

2   Select **Favourite**.

3  Select **Favourite.**

4  Return to TV viewing.

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

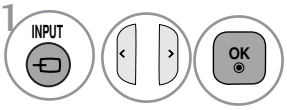
■ Displaying the favourite programme list



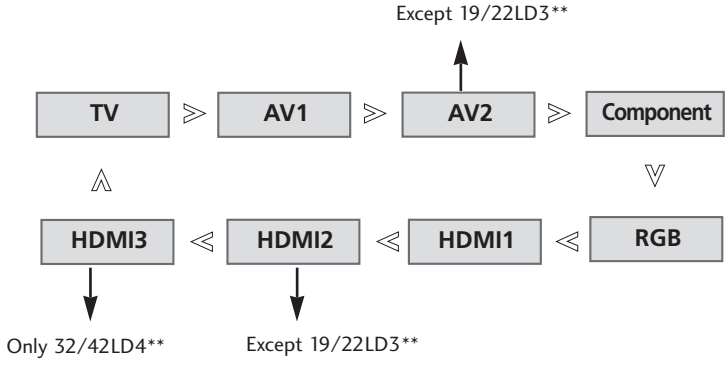
1  Display the Favourite Programme **List**.

INPUT LIST

■ Image shown may be somewhat different from your TV.

1 

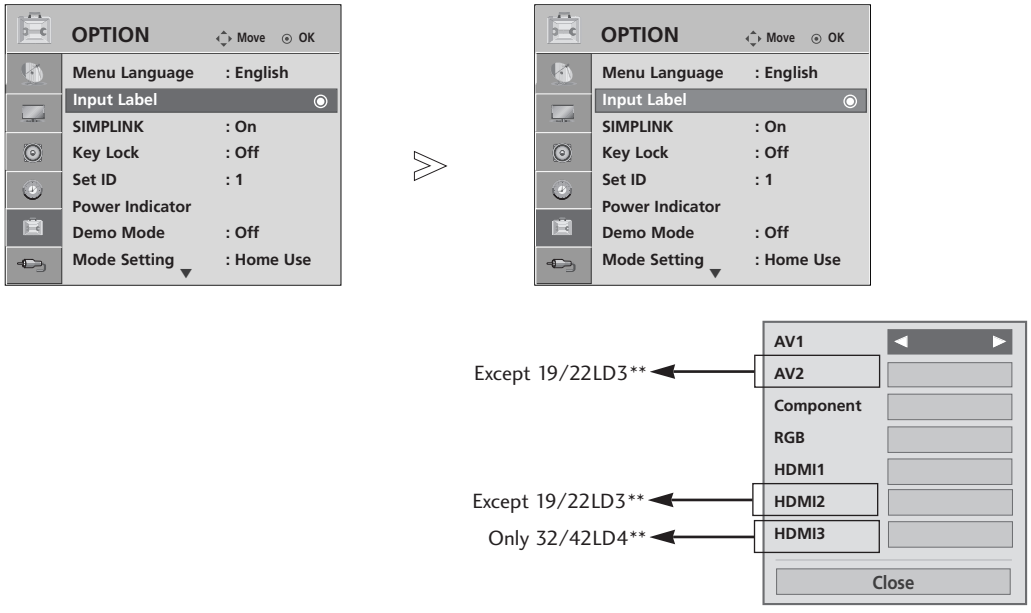
Select the input source.



- **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.



1 MENU Select **OPTION**.

2 OK Select **Input Label**.

3 OK Select the source.

4 Select the label.

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

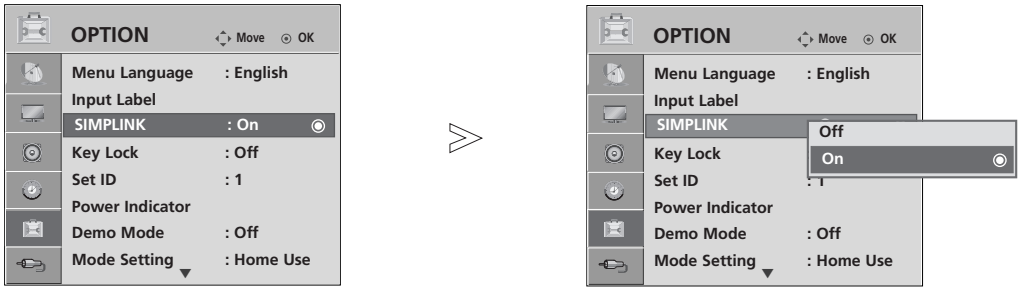
WATCHING TV / PROGRAMME CONTROL

SIMPLINK

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

This TV 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 want SIMPLINK menu,select "**Off**".



1 MENU Select **OPTION**.

2 OK Select **SIMPLINK**.

3 OK Select **On** or **Off**.

4 OK Save.

- Press the **MENU/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.
- ▶ When the unit is connected to SIMPLINK Home Theater, set to Variable Out and turn off the TV Speaker to operate the Home Theater Speaker. At this time, the maximum volume of the Home Theater Speaker is set to the TV volume. (Only 32LD4**)

SIMPLINK Functions

Disc playback

Control connected AV devices by pressing the ∧ ∨ < > , OK, ▶, ■, II, ◀◀ and ▶▶ 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.

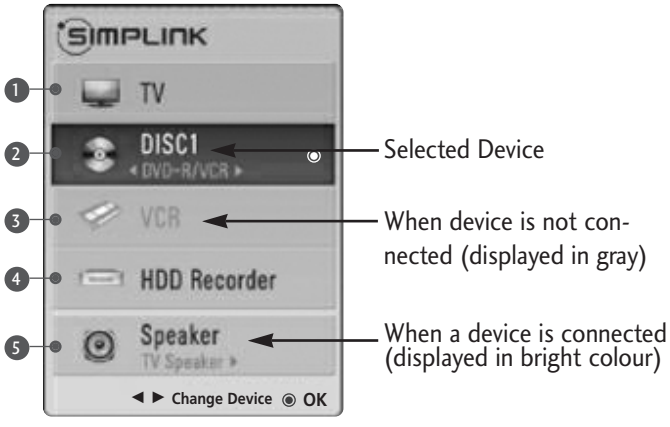
* A device, which is connected to the TV through a HDMI cable but does not support SIMPLINK, does not provide this function.

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

SIMPLINK Menu

Press the ∧ ∨ < > button and then **OK** button to select the desired SIMPLINK source.

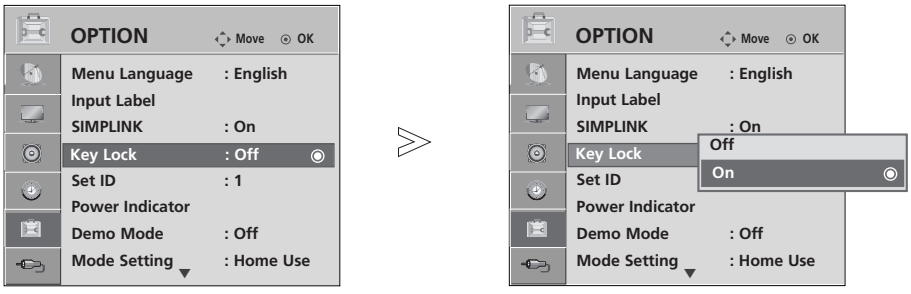
1. **TV viewing :** Switch to the previous TV programme regardless of the current mode.
2. **DISC playback :** Select and play connected discs. When multiple discs are available, the titles of discs are conveniently displayed at the bottom of the screen.
3. **VCR playback :** Play and control the connected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



KEY LOCK

The TV can be set so that the remote control is required to control it.
This feature can be used to prevent unauthorized viewing.

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



1 MENU Select **OPTION**.

2 OK Select **Key Lock**.

3 OK Select **On** or **Off**.

4 OK Save.

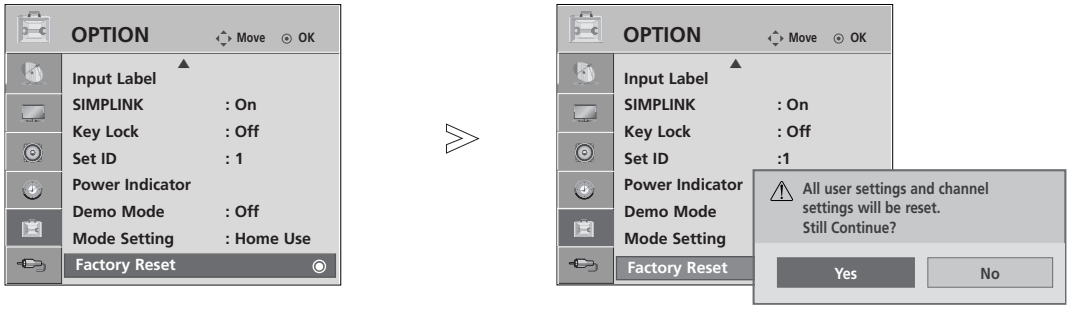
- In **Key Lock** '**On**', if the TV is turned off, press the ⏻ / I, **INPUT**, **P** ▲ or ▼(or **P** ∧ ∨) button on the TV or **POWER**, **INPUT**, **P** ∧ ∨ or NUMBER buttons on the remote control then the set will be turned on.
- With the **Key Lock On**, the display ' **Key Lock On** ' appears on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

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

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.



1 MENU Select **OPTION**.

2 OK Select **Factory Reset**.

3 OK Select **Yes**.

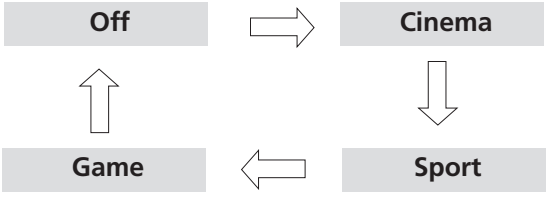
4 OK Start **Factory Reset**.

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

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.



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

2 OK

- 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.

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

TO USE A USB DEVICE

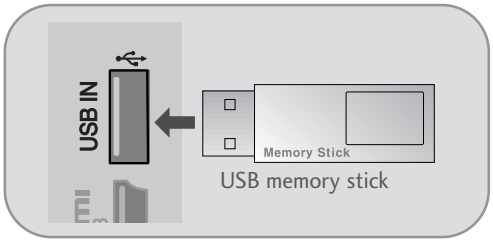
When connecting the USB device

▶It is not possible to use USB function in 19/22/26/32LD33* models.

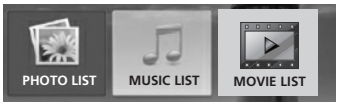
When you connect a USB device, this pop up menu is displayed, automatically.
"POP UP MENU" will not be displayed while the OSD including Menu is activated.
In USB device, you can not add a new folder or delete the existing folder.

■ Image shown may be somewhat different from your TV.

1 Connect the USB device to the **USB IN** jack on the TV.



2 Select **PHOTO LIST**, **MUSIC LIST** or **MOVIE LIST**.



3 OK

• This TV Supports on JPEG, MP3 and SD DivX.

When removing the USB device

Select the USB device menu before removing the USB device.

1 Q.MENU Select **Eject**.

2 OK

TO USE A USB DEVICE

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, image files or movie 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.
- ▶ 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.
- ▶ 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.
- ▶ 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 1TB or less for a USB external hard disk and 32GB 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.
- ▶ When using a USB HDD via the USB extension cable, connect a support electric power source.

PHOTO LIST

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

PHOTO(*.JPEG) supporting file

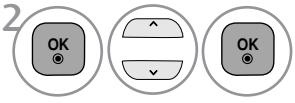
Baseline: Max 15360 x 8640
Min : 64x64

- 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



Select **USB**.

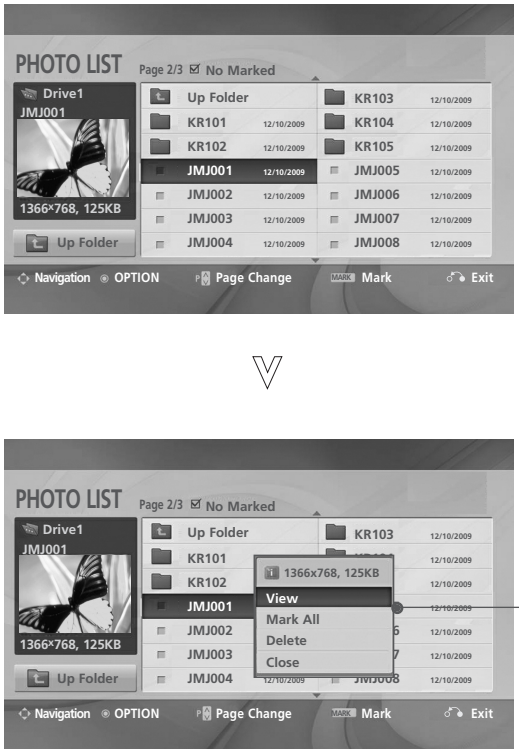


Select **PHOTO LIST.**

❶ Moves to upper level folder
❷ Current page/Total pages
❸ Total number of marked photos
❹ Corresponding buttons on the remote control



Photo Selection and PopUp Menu



▶ **View** : Display the selected item.
▶ **Mark All** : Mark all photos on the screen.
▶ **Unmark All** : Deselect all marked photos.
▶ **Delete** : Delete the selected photo item.
▶ **Close** : Close the pop-up menu.

1 Select the target folder or drive.

2 Select the desired photos.

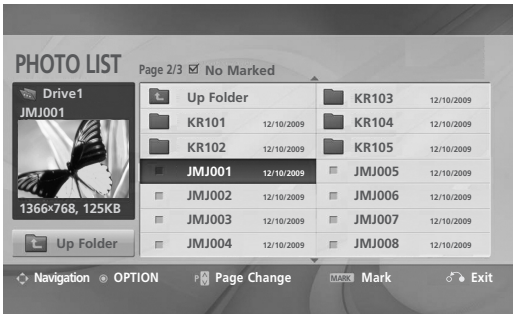
3 Show the PopUp menu.

4 Select the desired PopUp menu.

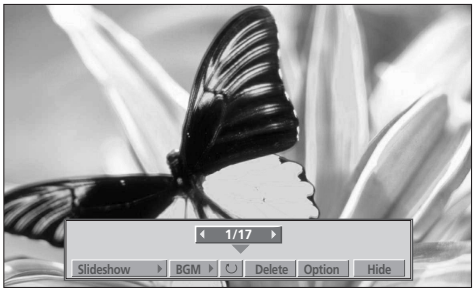
- Use the **P** ∧ ∨ button to navigation in the photo page.
- Use the **MARK** button to mark or unmark a photo. When one or more photos are marked, you can view individual photos or a slide show of the marked photos. If no photos are marked, you can view all photos individually or all photos in the folder in a slide show.

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.







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.

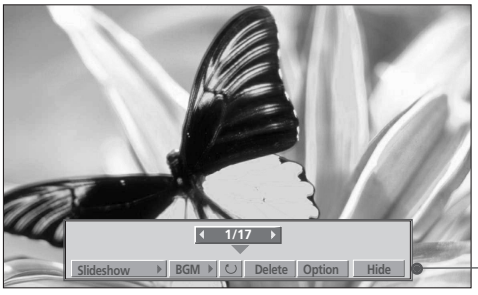
1 Select the target folder or drive.

2 Select the desired photos.

3 Show the PopUp menu.

4 Select **View**.

5 The selected photo is displayed in full size.



6 Select the **Slideshow** , **BGM**, **(Rotate)**, **Delete** , **Option** or **Hide**.

- Use < > button to select the previous or next photo.
- Use < > button to select and control the menu on the full-sized screen.

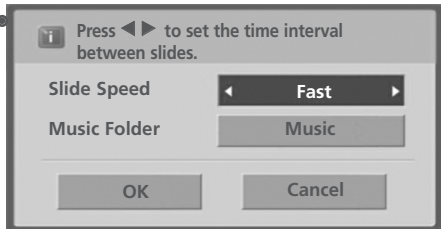
▶ **Slideshow** : When no picture is selected, all photos in the current folder are displayed during slide show. When selected, the selected photos are displayed during slide show.
- Set the time interval of the slide show in **Option**.

▶ **BGM** : Listen to music while viewing photos in full size.
- Set the BGM device and album in **Option**.

▶ **(Rotate)** : Rotate photos.
- Rotates the photo 90°, 180°, 270°, 360° clockwise.

▶ **Delete** : Delete photos.

▶ **Option** : Set values for **Slide Speed** and **Music Folder**.
- Use ^ v < > button and **OK** button to set values. Then go to OK and press **OK** to save the settings.
- You cannot change **Music Folder** while BGM is playing.



▶ **Hide** : Hide the menu on the full-sized screen.
- To see the menu again on the full-sized screen, press **OK** 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 320 kbps
Sampling rate MPEG1 layer 3: 32 k to 48 kHz

Screen Components

1 MENU Select **USB**.

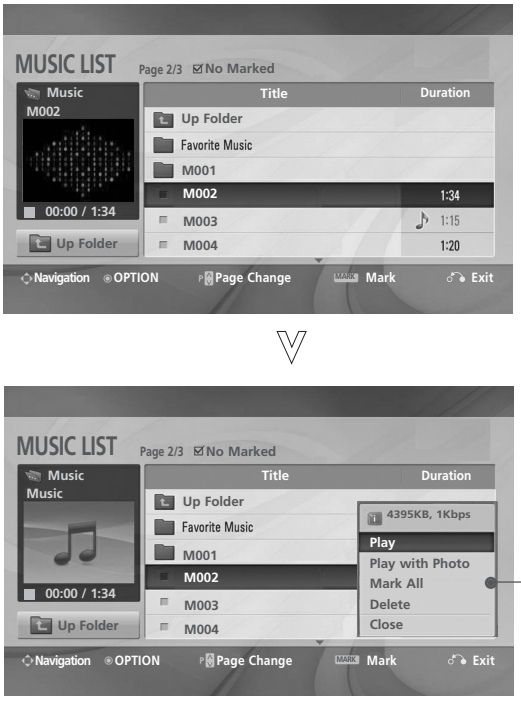
2 OK OK Select **MUSIC LIST**.

❶ Moves to upper level folder
❷ Current page/Total pages
❸ Total number of marked music title
❹ Corresponding buttons on the remote control



Music Selection and PopUp Menu

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



▶ **Play** (During stop) : Play the selected music titles.

Once a music finished playing, the next selected one will be played. When there are no selected music titles to play, the next one in the current folder will be played.

▶ **Play Marked** : Play the selected music titles. Once a music finishes playing, the next selected one will be played automatically.

▶ **Stop Play** (During playback) : Stop the playing music titles.

▶ **Play with Photo** : Start playing the selected music titles and then move to the Photo List.

▶ **Mark All** : Mark all music titles in the folder.

▶ **Unmark All** : Deselect all marked music titles.

▶ **Delete** : Delete the selected music titles.

▶ **Close** : Close the pop-up menu.

1 Select the target folder or drive.

2 Select the desired music title.

3 Show the PopUp menu.

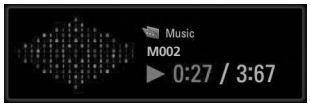
4 Select the desired PopUp menu.

- Use the **P** ∧ ∨ button to navigation in the 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.

■ 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.



NOTE

- ▶ When music is playing, ♪ is displayed in back of the music 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.

TO USE A USB DEVICE

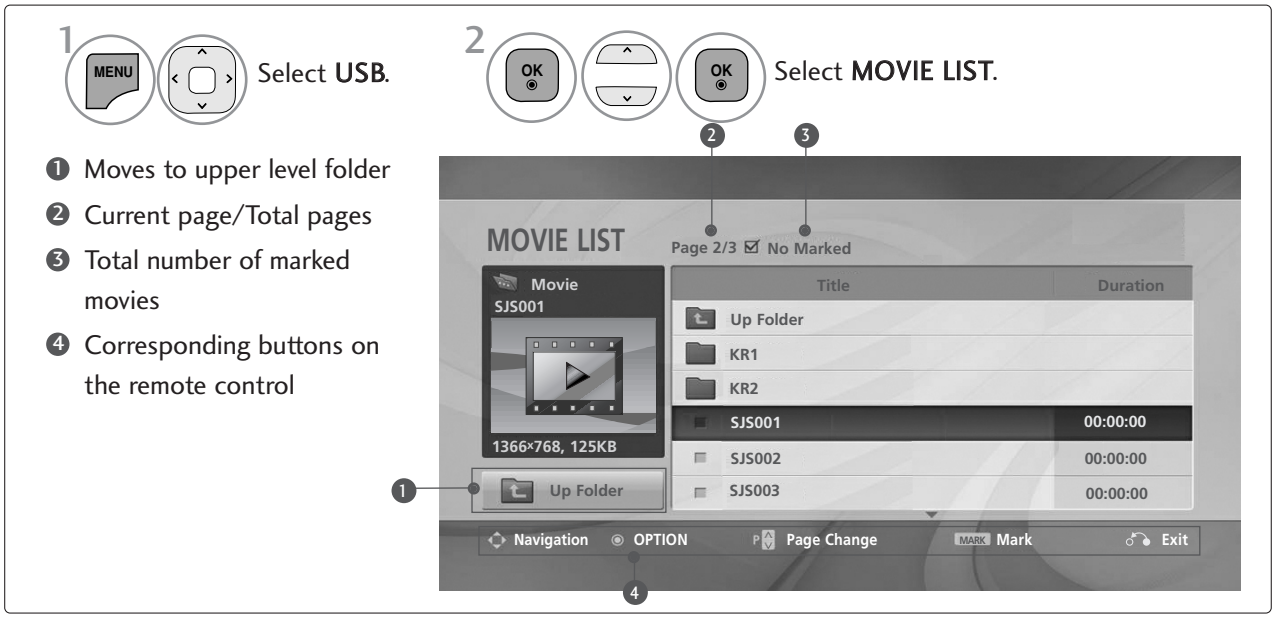
MOVIE LIST

The movie list is activated once USB is detected. It is used when playing movie files on TV.
Displays the movies in the USB folder and supports Play.
Allows playback of all movies in the folder and user desired files.
Editing such as delete and add is not allowed.
It is a movie list that displays folder information and Divx file.
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 : 32k to 48 kHz
Bit rate : 32k to 320 kbps
Subtitle format : *.smi/ *.srt/ *.sub(MicroDVD, SubViewer 2.0)/ *.ass/ *.ssa/*.txt(DVD Subtitle System)
• DivX may not be played depending on its types or recording methods.
• If the video and audio structure of recorded file is not interleaved, either video or audio is outputted.
• **Max bitrate of playable DivX file 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.
• Time information in an external subtitle file should be arranged in ascending order to be played.
• 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.)
• A video file name and its subtitle file name must be identical for it to be displayed.
• A DivX movie file and its subtitle file must be located in the same folder.
• 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.)
• 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.

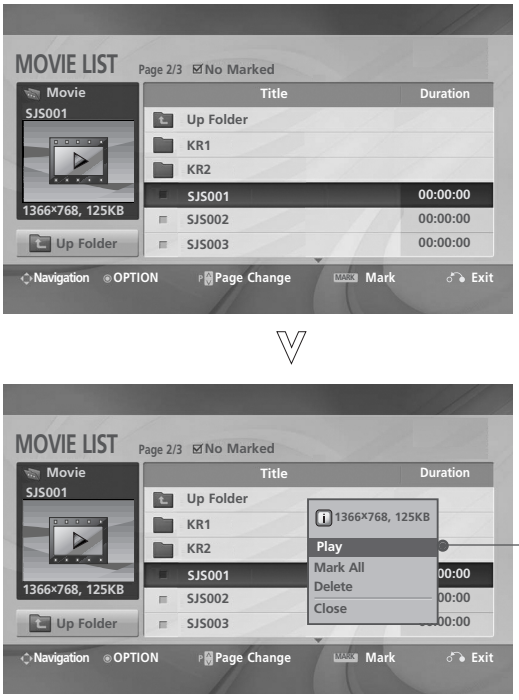
File / Extension name	Video Decodec	Audio Codec	Resolution
mpg, mpeg, mpe, vob, dat	MPEG1, MPEG2	AC3,MPEG,MP3,PCM	720x576@25p 720x480@30p
Avi, divX, m4v	MPEG 4-SP, MPEG4-ASP, DivX 3.xx,DivX 4.xx, DivX 5.xx, DivX 6.xx(Playback), Xvid	AC3,MPEG,MP3,PCM	

Screen Components



Movie Selection and PopUp Menu

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



- ▶ **Play** : Play the selected movie titles. DivX Play is executed while screen changes.
- ▶ **Play Marked** : Play the selected movie titles. Once a music finishes playing, the next selected one will be played automatically.
- ▶ **Stop Play** (During playback) : Stop the playing movie titles.
- ▶ **Mark All** : Mark all movie titles in the folder.
- ▶ **Unmark All** : Deselect all marked movie titles.
- ▶ **Delete** : Delete the selected movie titles.
- ▶ **Close** : Close the pop-up menu.

1 Select the target folder or drive.

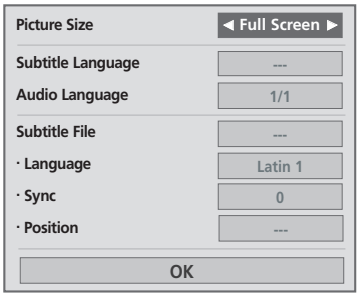
2 Select the desired movie.

3 Show the PopUp menu.

4 Select the desired PopUp menu.

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

DivX Audio Language & Subtitle Language



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

1 Select the desired option.

2 Select **Picture Size, Subtitle Language, Audio Language, Subtitle File, Language, Sync** or **Position**.

• When DivX is playing, if you press the **RED** button, this message is displayed.

• Press the **MENU/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 ◀◀ -> ◀◀◀ -> ◀◀◀◀ -> ◀◀◀◀◀ ->◀◀◀◀◀◀. repeatedly, press the **FF(▶▶)** button to speed up ▶▶-> ▶▶▶ -> ▶▶▶▶ -> ▶▶▶▶▶ -> ▶▶▶▶▶▶. ■ Pressing these buttons repeatedly increases the fast forward/reverse speed.
II	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.

TO USE A USB DEVICE

DIVX REGISTRATION CODE

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

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



1 MENU Select **USB**.

2 OK Select **DivX Reg. Code**.

3 OK Display **DivX Reg. Code**.

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

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

ABOUT DIVX VIDEO : DivX® is a digital video format created by DixX,Inc. This is an official DivX Certified device that plays DivX video. Visit www.divx.com for more information and software tools to convert your files into DivX video.

ABOUT DIVX VIDEO-ON-DEMAND : This DivX Certified® device must be registered in order to play DivX Video-on-Demand[VOD] content. To generate the registration code, locate the DivX VOD section in the device setup menu. Go to vod.divx.com with this code to complete the registration process and learn more about DivX VOD.

"DivX Certified to play DivX video, including premium content"
"Pat. 7,295,673; 7,460,688; 7,519,274"

NOTE

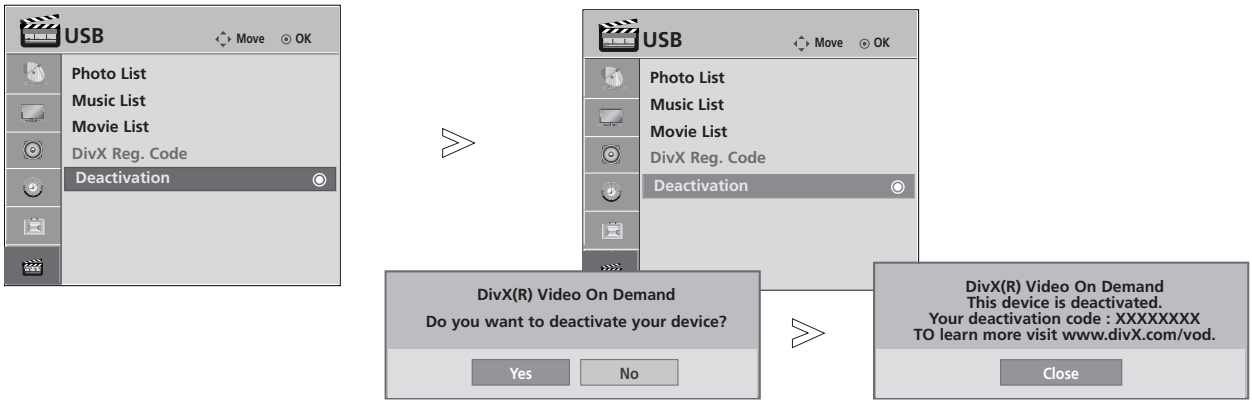
Supported movie file

Resolution : under 720x480(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.
- ▶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.

DEACTIVATION

Delete the existing authentication information to receive a new DivX user authentication for TV.
Once this function is executed, a DivX user authentication is required again to see DivX DRM files.



1 MENU Select **USB**.

2 OK Select **Deactivation**.

3 OK Select **Yes**.

4 OK

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

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 Zoom.

If a fixed image is displayed on the screen for a long time, that fixed image may become imprinted on the screen and remain visible.

1 Q.MENU Select **Aspect Ratio**.

2 Select the desired picture format.

- You can also adjust **Aspect Ratio** in the **PICTURE** menu.
- For Zoom Setting, select **14:9**, **Zoom** and **Cinema Zoom** in Q.Menu or select **Cinema Zoom** in PICTURE menu.

• 16:9

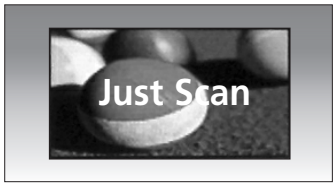
The following selection will allow you to adjust the picture horizontally, in linear proportion, to fill the entire screen(useful for viewing 4:3 formatted DVDs).



• 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.



• Original

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



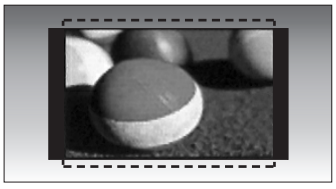
• 4:3

The following selection will allow you to view a picture with an original 4:3 aspect ration, black 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.



• **Cinema Zoom**

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

The adjustment range is 1 to 16.



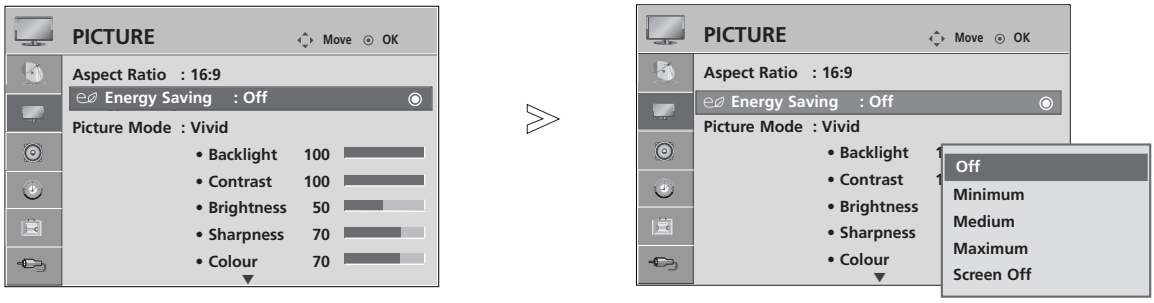
NOTE

- ▶ You can only select **4:3**, **16:9** (Wide), **14:9**, **Zoom**, **Cinema Zoom** in Component, HDMI mode.
- ▶ You can only select **4:3**, **16:9** (Wide) in RGB mode only.
- ▶ In HDMI/Component (over 720p) mode, **Just Scan** is available.

PICTURE CONTROL

ENERGY SAVING

It reduces the TV's power consumption by adjusting backlight level.
The default factory setting 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.



1 MENU Select **PICTURE**.

2 OK Select **Energy Saving**.

3 OK Select **Off**, **Minimum**, **Medium**, **Maximum** or **Screen Off**.

4 OK Save.

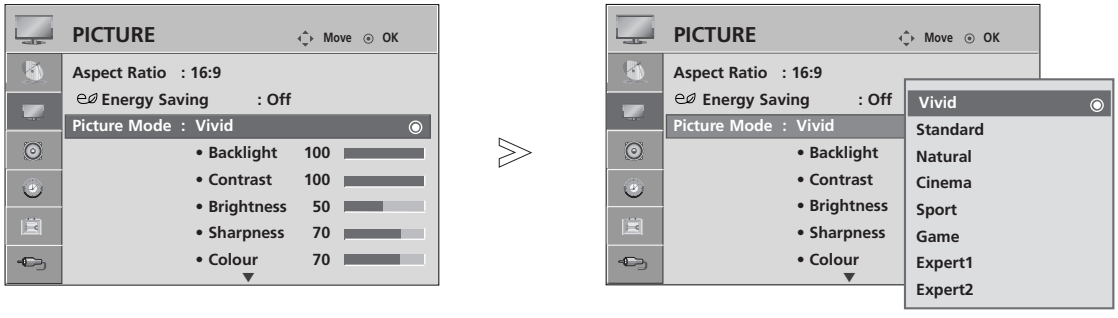
- Press the **MENU/EXIT** button to return to normal TV viewing.
- Press the **BACK** button to move to the previous menu screen.

- 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**", **Backlight** feature will not work.
- You can also adjust **Energy Saving** button.

PRESET PICTURE SETTINGS

Picture Mode-Preset

Vivid Strengthen the contrast, brightness, colour and sharpness for vivid picture.
Standard The most general and natural 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.



1 MENU Select **PICTURE**.

2 OK Select **Picture Mode**.

3 OK 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.
- You can also adjust **Picture Mode** in the **Q. Menu**.

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

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.

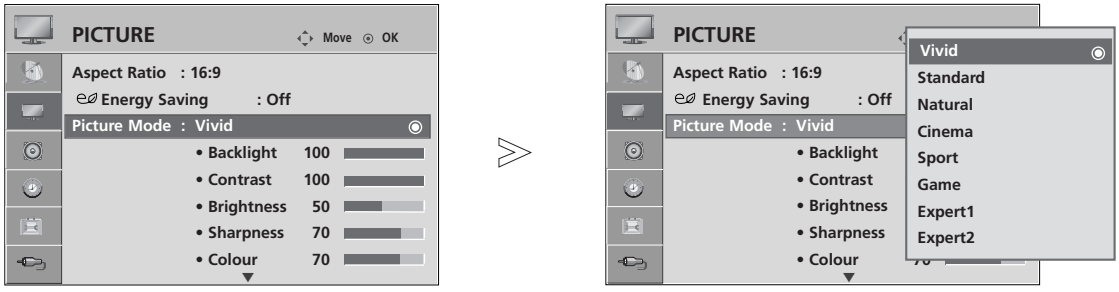
Contrast
Adjusts the difference between light and dark levels in the picture. You may use Contrast when the bright part of the picture is saturated.

Brightness
Increases or decreases the amount of white 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.



1 MENU Select **PICTURE**.

2 OK Select **Picture Mode**.

3 OK Select **Vivid**, **Standard**, **Natural**, **Cinema**, **Sport** or **Game**.

4 OK Select **Backlight**, **Contrast**, **Brightness**, **Sharpness**, **Colour** or **Tint**.

5 OK Make appropriate adjustments.

• Benefits of using Backlight
- The electricity consumption is reduced by up to 60 %.
- The black brightness is reduced. (As the black has greater depth, you can enjoy a better quality definition.)
- You can adjust brightness with maintaining original signal resolution.

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

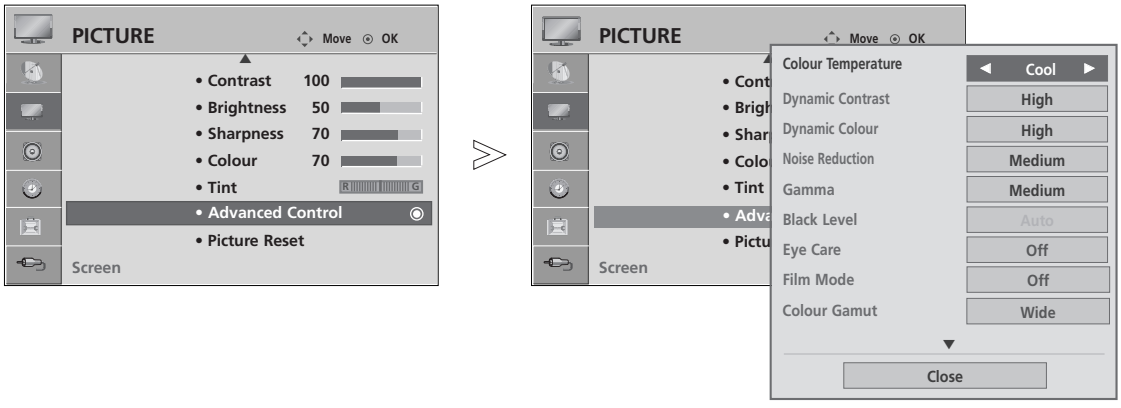
• Press the **BACK** button to move to the previous menu screen.

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 “Reset” function for each Picture Mode.

■ Image shown may be somewhat different from your TV.



1 MENU Select **PICTURE**.

2 OK Select **Advanced Control**.

3 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.75 to 76)**

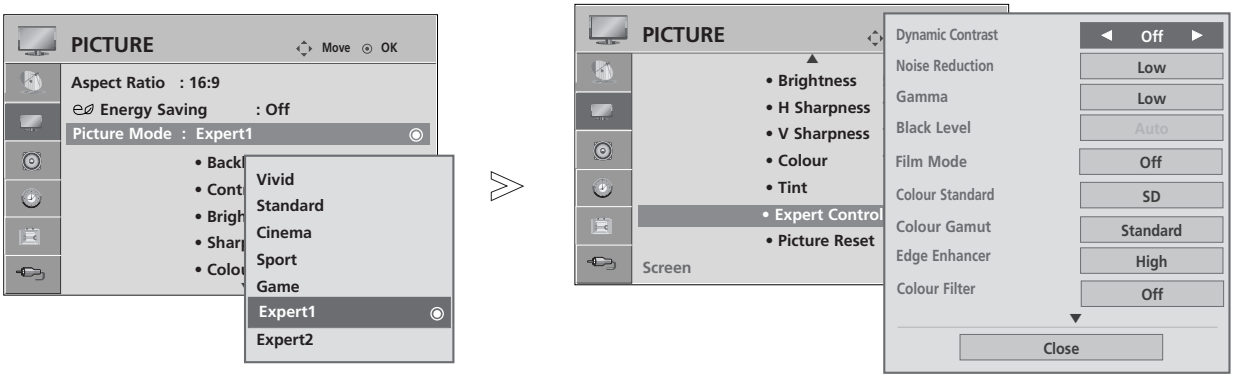
4 Select your desired Source.

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

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.



1 MENU Select **PICTURE**.

2 OK Select **Picture Mode**.

3 OK Select **Expert1** or **Expert2**.

4 OK Select **Expert Control**.

5 OK Select your desired Source.

6 Make appropriate adjustments.

- Press the **MENU/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.

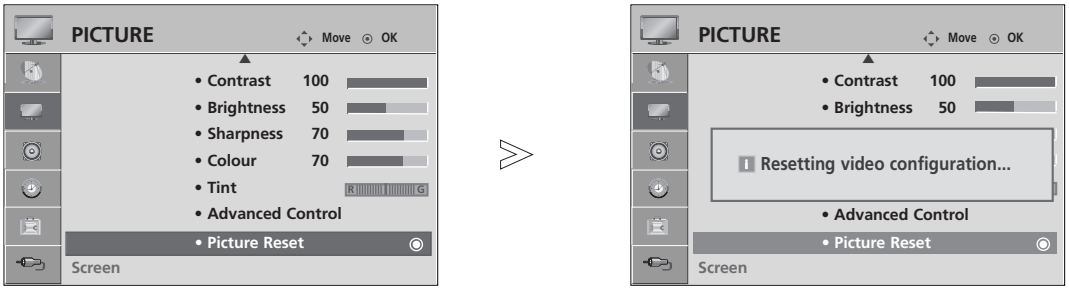
Colour Temperature (Warm/Medium/Cool)	■ Choose one of three automatic colour adjustments. Set to warm to enhance hotter colours such as red, or set to cool to make picture bluish.
Dynamic Contrast (Off/Low/Medium/High)	■ Adjusts the contrast to keep it at the best level according to the brightness of 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. ■ Maximize the utilization for colour area that can be expressed.
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.



1 MENU Select **PICTURE**.

2 OK Select **Picture Reset**.

3 OK Initialize the adjusted value.

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

POWER INDICATOR

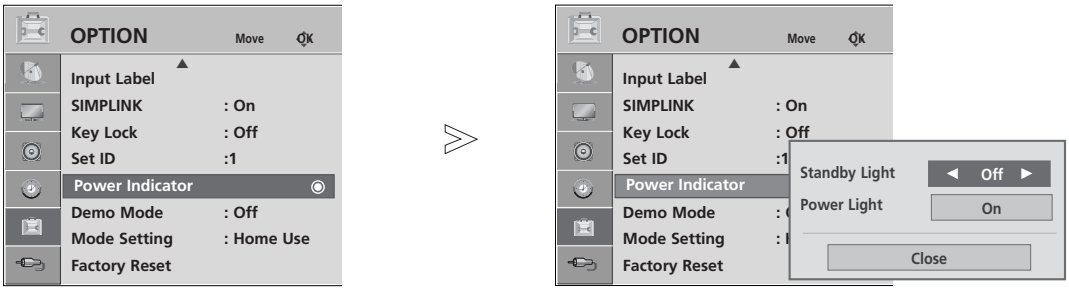
It helps you adjust the brightness of moving LED and sound when power is turned on.

Standby Light

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

Power Light

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



1 MENU Select **OPTION**.

2 OK Select **Power Indicator**.

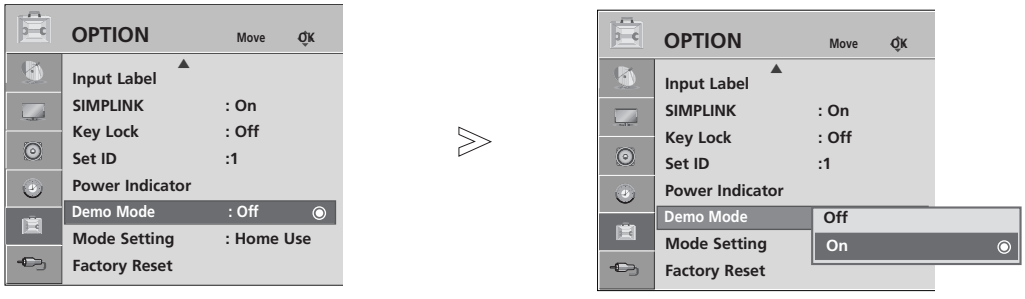
3 OK Select **Standby Light** or **Power Light**.

4 Select your desired Source.

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

DEMO MODE

Display the slide show to explain the various logo of this TV.
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.



1 MENU Select **OPTION**.

2 OK Select **Demo Mode**.

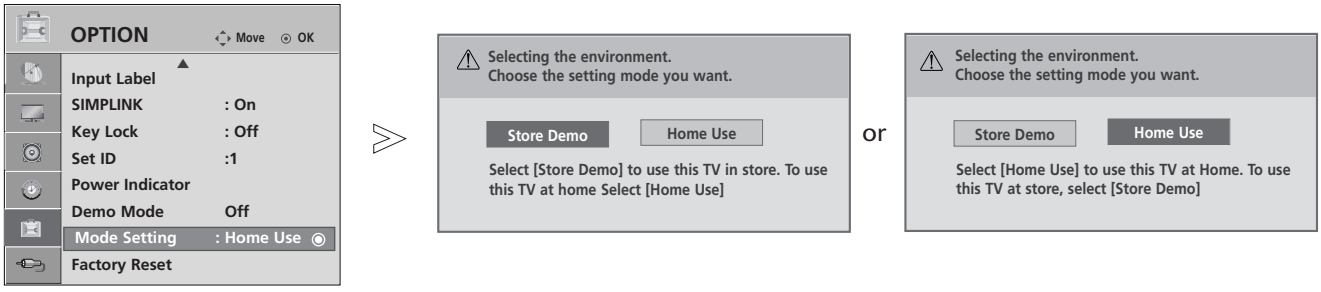
3 OK Select **On** to show the various logo of TV.

4 OK Return to TV viewing.
If you want to stop the demo, press any button.
(except **MUTE**, **+** , **-** button)

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

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.



1 MENU Select **OPTION**.

2 OK Select **Mode Setting**.

3 OK Select **Store Demo** or **Home Use.**

4 OK Save.

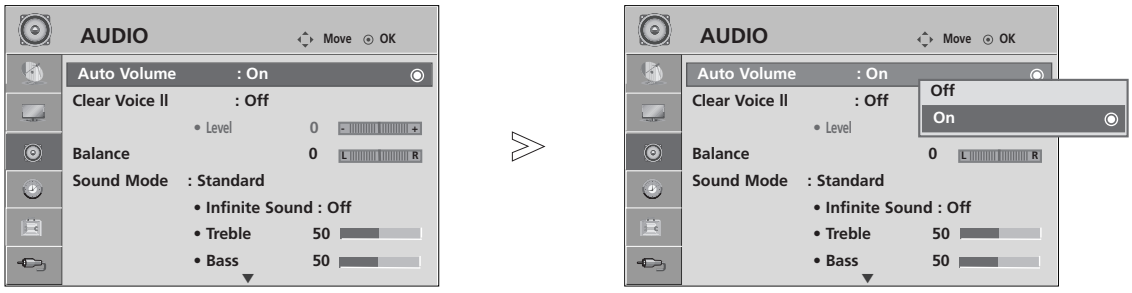
- Press the **MENU/EXIT** button to return to normal TV viewing.
- Press the **BACK** button to move to the previous menu screen.

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.



1 MENU Select **AUDIO**.

2 OK Select **Auto Volume**.

3 OK Select **On** or **Off**.

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

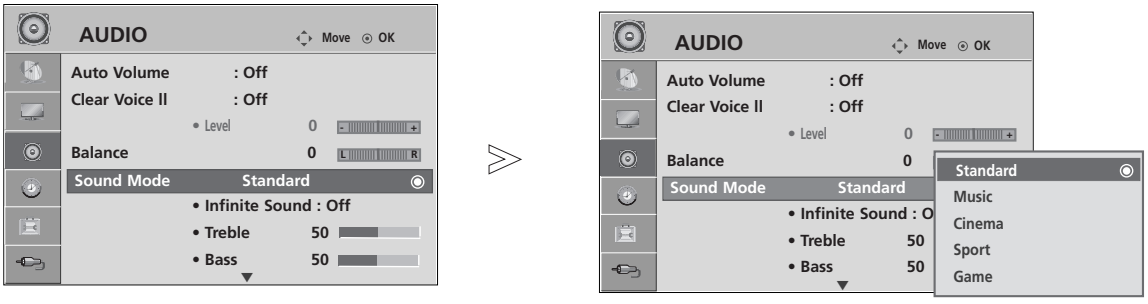
PRESET SOUND SETTINGS-SOUND MODE

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

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

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.



1 MENU Select **AUDIO**.

2 OK Select **Sound Mode**.

3 OK Select **Standard, Music, Cinema, Sport** or **Game**.

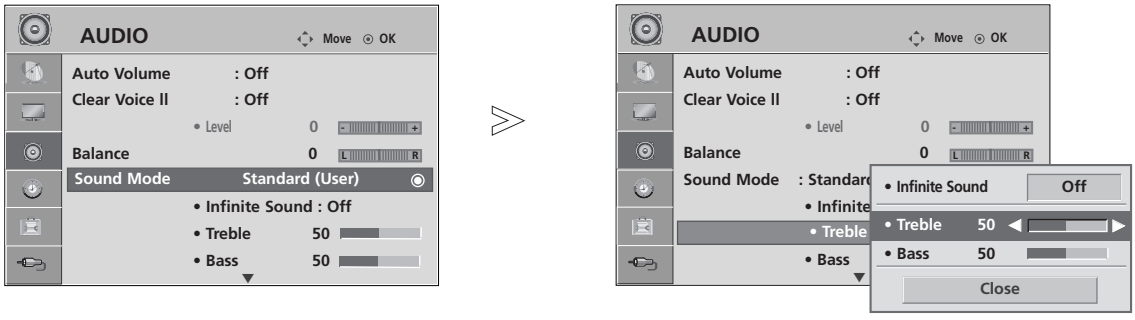
4 OK

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

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

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

SOUND SETTING ADJUSTMENT -USER MODE



1 MENU Select **AUDIO**.

2 OK Select **Sound Mode**.

3 OK Select **Standard, Music, Cinema, Sport** or **Game**.

4 OK Select **Treble**, **Bass**.

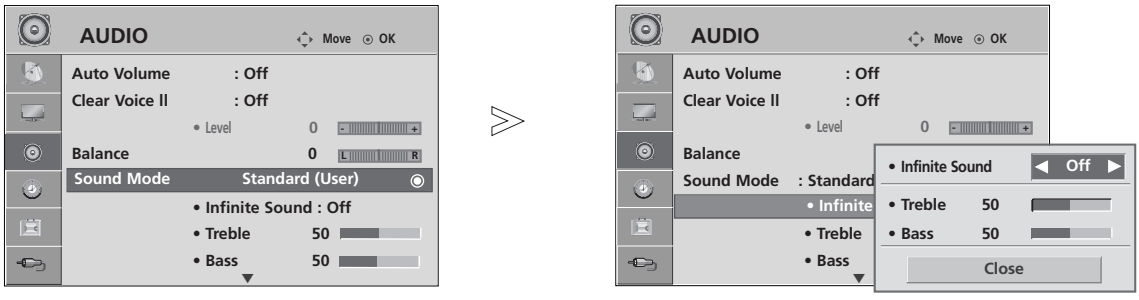
5 OK Make appropriate adjustments.

6 OK

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

INFINITE SOUND (Except 32LD4**)

Select this option to sound realistic.



1 MENU Select **AUDIO**.

2 OK Select **Infinite Sound**.

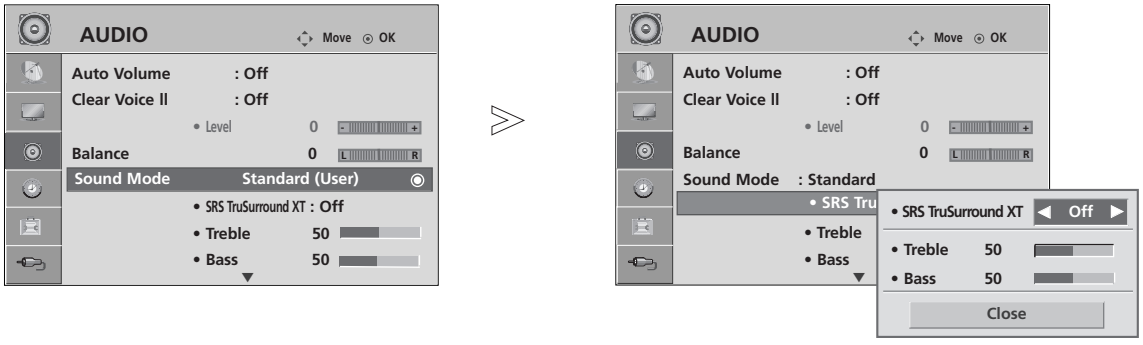
3 OK Select **On** or **Off**.

4 OK

- **Infinite Sound :** Infinite Sound is a patented LG proprietary sound processing technology that strives immersive 5.1 surround sound impression with front two loudspeakers.

SRS TRUSURROUND XT (Only 32LD4**)

Select this option to sound realistic.



1 MENU Select **AUDIO**.

2 OK Select **SRS TruSurround XT**.

3 OK Select **On** or **Off**.

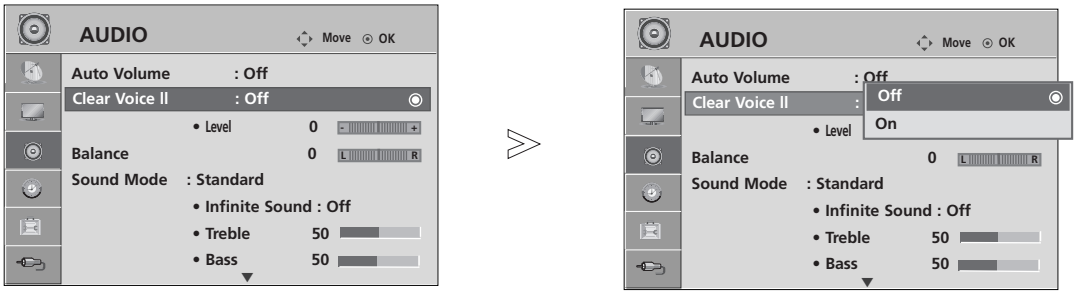
4 OK

• **SRS TruSurround XT :** TruSurround XT is a patented SRS technology that solves the problem of playing 5.1 multichannel content over two speakers.

► SRS TruSurround XT is a trademark of SRS Labs, Inc.
► TruSurround XT technology is incorporated under license from SRS Labs, Inc.

CLEAR VOICE II

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



1 MENU Select **AUDIO**.

2 OK Select **Clear Voice II**.

3 OK Select **On** or **Off**.

• If you select "**On**" for **Clear Voice II**, **Infinite Sound** or **SRS TruSurround XT** feature will not work.

Adjustment for Clear Voice Level With selecting On

4 OK Select **Level**.

• **Select levels from '-6' to '+6'.**

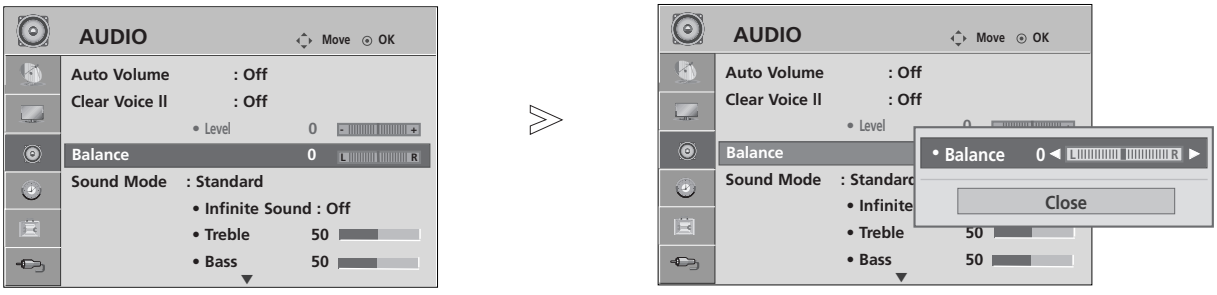
5 OK Make appropriate adjustments.

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

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

BALANCE

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



1 MENU Select **AUDIO**.

2 OK Select **Balance**.

3 OK Make desired adjustment.

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

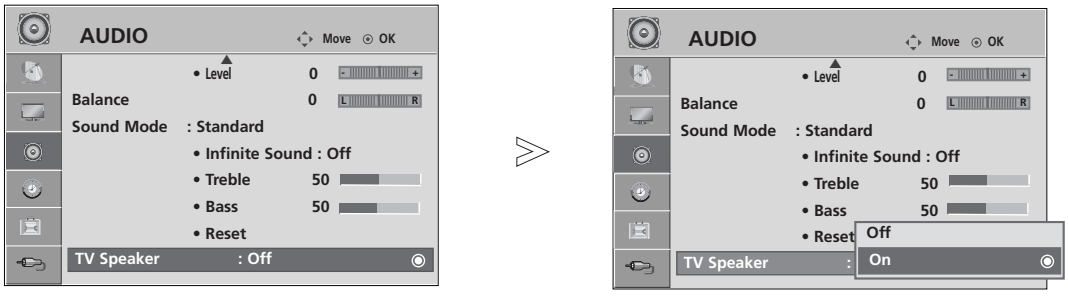
• Press the **BACK** button to move to the previous menu screen.

TV SPEAKERS ON/ OFF SETUP

You can adjust the TV internal speaker status.

In **AV**, **COMPONENT**, **RGB** and **HDMI1** 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.



1 MENU Select **AUDIO**.

2 OK Select **TV Speaker**.

3 OK Select **On** or **Off**.

- Press the **MENU/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. (Only 32LD4**)

SELECTING AUDIO OUT (Only 32LD4**)

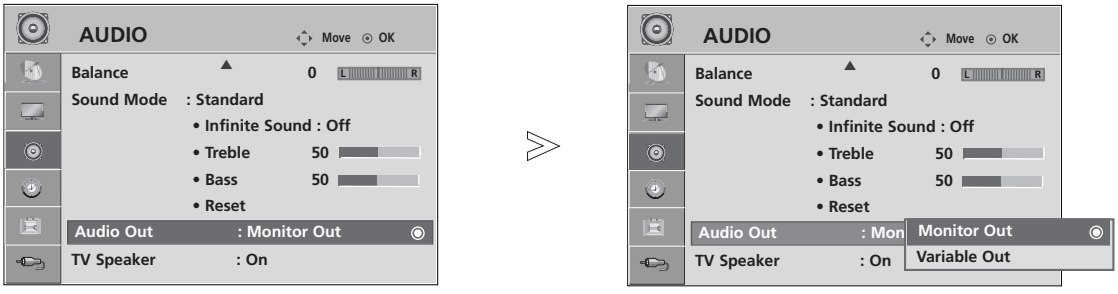
Select **Monitor Out** or **Variable out** to connect the audio outputs.

Monitor Out

It sounds connected to AV eqiupment input including exterior amp.
The level of the sound is always regular, regardless of the volume setup of the set. Thus the level of the sound from an exterior equpment can be controled by adjusting the volume of the exterior equipment.

Variable out

It sounds connected to AV eqiupment input including exterior amp.
Sound can be adjusted depending on the volume setup of the set. Thus the level of the sound from the exterior equipment can be controled either by the exterior equipment or the volume setup of the set.



1 MENU Select **AUDIO**.

2 OK Select **Audio Out**.

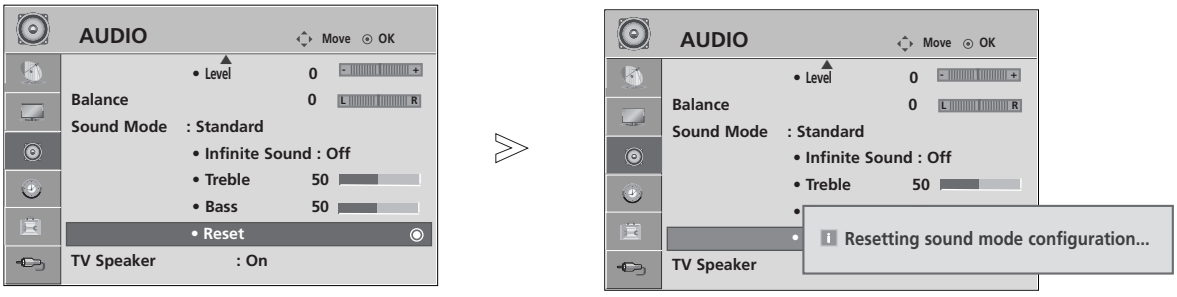
3 OK Select **Monitor Out** or **Variable out.**

4 OK

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

AUDIO RESET

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



1 MENU Select **AUDIO**.

2 OK Select **Reset**.

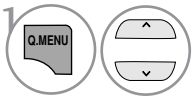
3 OK Initialize the adjusted value.

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

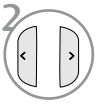
I/II

Stereo/Dual Reception

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

1 

Select **Audio**.

2 
Select the sound output.

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

■ **Mono sound selection**
If the stereo signal is weak in stereo reception, you can switch to mono. In mono reception, the clarity of sound is improved.

■ **Language selection for dual language broadcast**
If a programme can be received in two languages (dual language), you can switch to DUAL I, DUAL II or DUAL I+II.

DUAL I Sends the primary broadcast language to the loudspeakers.
DUAL II Sends the secondary broadcast language to the loudspeakers.
DUAL I+II Sends a separate language to each loudspeaker.

NICAM Reception

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

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

1. When **NICAM mono** is received, you can select **NICAM MONO** or **FM MONO**.
2. When **NICAM stereo** is received, you can select **NICAM STEREO** or **FM MONO**.
   If the stereo signal is weak, switch to **FM MONO**.
3. 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.

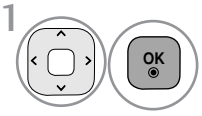
L+R: Audio signal from audio L input is sent to the left loudspeaker and audio signal from audio R input is sent to the right loudspeaker.

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

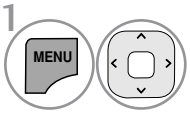
R+R: Audio signal from audio R input is sent to left and right loudspeakers.

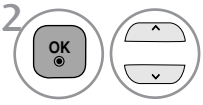
ON-SCREEN MENU LANGUAGE SELECTION

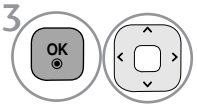
The installation setup menu appears on the TV screen when it is switched on for the first time.

1  Select your desired language.

*** If you want to change Language selection**

1  Select **OPTION**.

2  Select **Menu Language**.

3  Select your desired language.

4  Save.

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

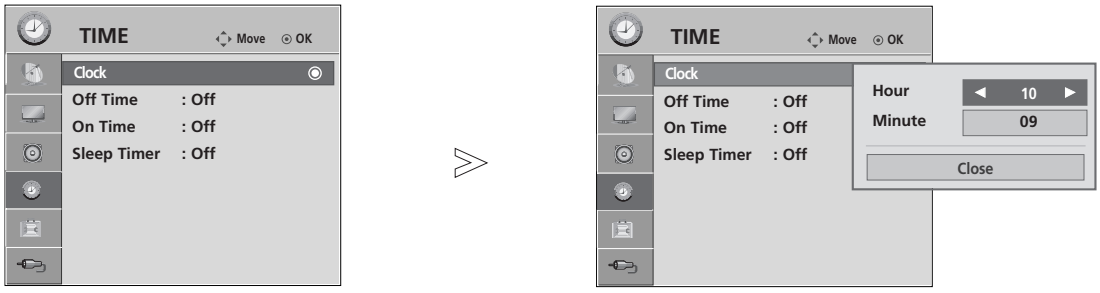
NOTE

► 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.



1 MENU Select **TIME**.

2 OK Select **Clock**.

3 OK Select either the Hour or Minute option.

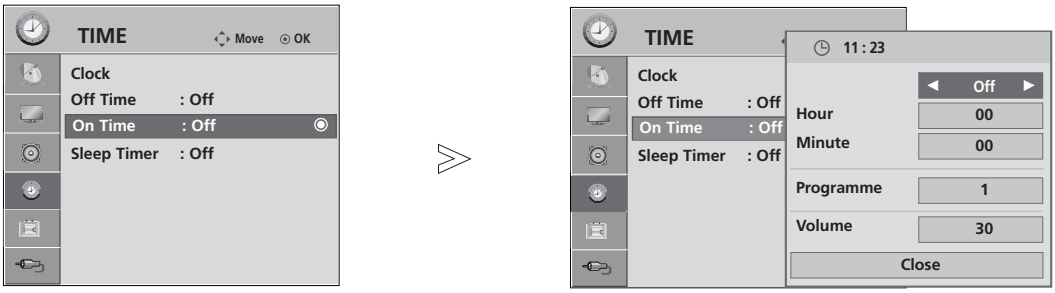
4 Set the Hour or Minute options.

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

AUTO ON/OFF TIMER SETTING

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

The Off time function overrides the On time function if both are set to the same time.
The TV must be in standby mode for the On time to work.



1 MENU Select **TIME**.

2 OK Select **Off Time** or **On Time**.

When the **On Time** is selected,

3 OK Select **Hour**, **Minute**, **Programme** or **Volume**.

4 Set the Hour, Minute, Programme, Volume.

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

1 Q.MENU Select **Sleep Timer**.

2 Select **Off**, **10**, **20**, **30**, **60**, **90**, **120**, **180** or **240 Min**.

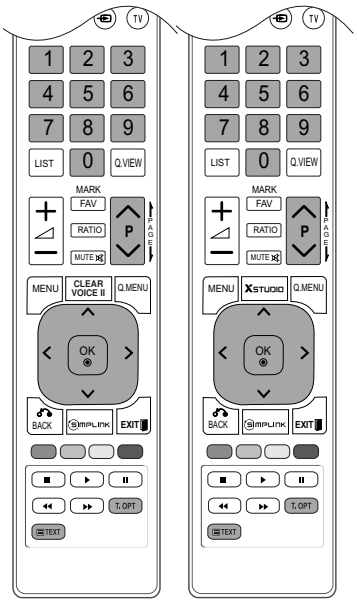
- When you switch the TV off, the preset sleep timer is cancelled.
- You can also adjust **Sleep Timer** in the **TIME** menu.

TELETEXT

This feature is not available in all countries.

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

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



SWITCH ON/OFF

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

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

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

SIMPLE TEXT

■ Page selection

❶ 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.

❷ The P ∧ ∨ 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

❶ With the blue button you can progress from block to block.

❷ Use the yellow button to proceed to the next group with automatic overflow to the next block.

❸ With the green button you can proceed to the next existing page with automatic overflow to the next group. Alternatively the P ∧ button can be used.

❹ The red button returns to the previous selection. Alternatively the P ∨ 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

❶ Press the **T.OPT** button and then use ∧ ∨ button to select menu. Display the index page.
❷ You can select the pages which are colour coded along the bottom line with corresponding coloured buttons.
❸ AS with SIMPLE teletext mode, you can select a page by entering its three digit page number with the NUMBER buttons in FASTEXT mode.
❹ The **P** ∧ ∨ button can be used to select the preceding or following page.

SPECIAL TELETEXT FUNCTIONS

■ Press the **T. OPT** button and then use ∧ ∨ button to select the **Text Option** menu.



■ **Index**

Select the each index page.

■ **Time**

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

Press again to exit this function.

■ **Hold**

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

■ **Reveal**

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

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

■ **Update**

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

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 -). ■ Install new batteries.
Power is suddenly turned off	■ Is the sleep timer set? ■ Check the power control settings. Has the Power supply been interrupted. ■ The TV goes into Standby mode automatically if no signal is received or no operation is performed for 15 minutes.

The video function does not work.	
No picture & No sound	■ Check whether the TV is switched on. ■ Try another channel. The problem may be with the broadcast. ■ Is the power cord inserted correctly into the mains? ■ Check your antenna direction and/or location. ■ Test the mains outlet by plugging another TV into the same outlet.
Picture appears slowly after switching on	■ This is normal, the image is muted during the TV startup process. Please contact your service centre, if the picture has not appeared after five minutes.
No or poor colour or poor picture	■ Adjust Colour in menu option. ■ Allow a sufficient distance between the TV and the VCR. ■ Try another channel. The problem may be with the broadcast. ■ Are the video cables installed properly? ■ Activate any function to restore the brightness of the picture.
Horizontal/vertical bars or picture shaking	■ Check for local interference such as an electrical appliance or power tool.
Poor reception on some channels	■ Station or cable channel experiencing problems, tune to another station. ■ Station signal is weak, reposition the antenna to receive weaker stations. ■ Check for sources of possible interference.
Lines or streaks in pictures	■ Check antenna (Change the position of the antenna).
No picture when connecting HDMI	■ Check 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.

The audio function does not work.	
Picture OK & No sound	■ 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 connecting HDMI	■ Check HDMI cable is High Speed HDMI Cable. *This feature is not available for all models.

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 clock, 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

1. A good way to keep the dust off your screen for a while is to wet a soft cloth in a mixture of lukewarm water and a little fabric softener or dish washing detergent. Wring the cloth until it 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

⚠ CAUTION

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

PRODUCT SPECIFICATIONS

MODELS		19LD3**	22LD3**
		19LD330-TA 19LD340-TA	22LD330-TA / 22LD331C-TA 22LD340-TA / 22LD341C-TA
Dimensions (Width x Height x Depth)	with stand	457.0 mm x 336.0 x mm 165 mm	526.0 mm x 377.0 mm x 165 mm
	without stand	457.0 mm x 290.0 mm x 65 mm	526.0 mm x 331.0 mm x 65mm
Weight	with stand	3.4 kg	4.3 kg
	without stand	3.1kg	4.0 kg
Power requirement		AC 100-240 V~ 50 / 60 Hz	AC 100-240 V~ 50 / 60 Hz
MODELS		26LD3**	32LD3**
		26LD330-TA / 26LD331C-TA 26LD340-TA / 26LD341C-TA	32LD330-TA / 32LD331C-TA 32LD340-TA / 32LD341C-TA
Dimensions (Width x Height x Depth)	with stand	663.0 mm x 484.0 mm x 207 mm	800.0 mm x 565.0 mm x 207 mm
	without stand	663.0 mm x 423.0 mm x 79.9 mm	800.0 mm x 509.0 mm x 73.8 mm
Weight	with stand	7.3 kg	9.2 kg
	without stand	6.2 kg	8.2 kg
Power requirement		AC 100-240 V~ 50 / 60 Hz	AC 100-240 V~ 50 / 60 Hz
Television System Program Coverage External Antenna Impedance		PAL/SECAM B/G/D/K, PAL I/II, NTSC-M VHF: NZ1 to E21, UHF: E21 to E69, CATV: S1 to S20, HYPER: S21 to S47 75 Ω	
Environment condition	Operating Temperature Operating Humidity	0 ˚C to 40 ˚C Less than 80 %	
	Storage Temperature Storage Humidity	-20 ˚C to 60˚C Less than 85 %	

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

APPENDIX

MODELS		32LD4** 32LD420-TA	42LD4** 42LD420-TA
Dimensions (Width x Height x Depth)	with stand	805.0 mm x 583.0 mm x 224.0 mm	1028.0 mm x 715.4 mm x 297.0 mm
	without stand	805.0 mm x 531.0 mm x 79.9 mm	1028.0 mm x 658.6 mm x 87.8 mm
Weight	with stand	10.8 kg	16.6 kg
	without stand	9.7 kg	14.8 kg
Power requirement		AC 100-240 V~ 50 / 60 Hz	AC 100-240 V~ 50 / 60 Hz
Television System Program Coverage External Antenna Impedance		PAL/SECAM B/G/D/K, PAL I/II, NTSC-M VHF: NZ1 to E21, UHF: E21 to E69, CATV: S1 to S20, HYPER: S21 to S47 75 Ω	
Environment condition	Operating Temperature Operating Humidity	0 °C to 40 °C Less than 80 %	
	Storage Temperature Storage Humidity	-20 °C to 60°C Less than 85 %	
Supported movie files		Refer to p. 62	

■ 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	⏻ POWER	R/C BUTTON (POWER ON/OFF)
0B	INPUT	R/C BUTTON
79	RATIO	R/C BUTTON
45	Q.MENU	R/C BUTTON
43	MENU	R/C BUTTON
1E	MARK/FAV	R/C BUTTON
07	Left (<)	R/C BUTTON
06	Right (>)	R/C BUTTON
40	Up (∧)	R/C BUTTON
41	Down (∨)	R/C BUTTON
44	OK(◉)	R/C BUTTON
28	BACK	R/C BUTTON
95	Energy Saving	R/C BUTTON
30	AV MODE	R/C BUTTON
02	◿ +	R/C BUTTON
03	◿ -	R/C BUTTON
00	P ∧ /PAGE ∧	R/C BUTTON
01	P ∨ /PAGE ∨	R/C BUTTON
09	MUTE	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	R/C BUTTON
7E	SIMPLINK	R/C BUTTON
B1	■ Stop	R/C BUTTON
B0	▶ Play	R/C BUTTON
BA	❙❙Pause	R/C BUTTON
8F	◀◀ Rew	R/C BUTTON
8E	▶▶ FF	R/C BUTTON
0F	TV	R/C BUTTON
7C	XSTUDIO	R/C BUTTON
5B	EXIT	R/C BUTTON
5E	CLEAR VOICE II	R/C BUTTON
F0	TV/RAD	R/C BUTTON
39	SUBTITLE	R/C BUTTON
AA	INFO ⓘ	R/C BUTTON
AB	GUIDE	R/C BUTTON

EXTERNAL CONTROL DEVICE SETUP

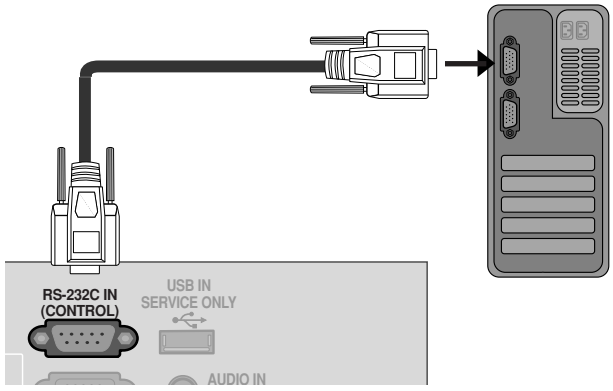
RS-232C Setup

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.

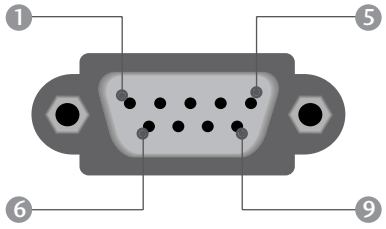
Note: RS-232C connection cables are not supplied with the product.

Note : In USB mode, 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

7-Wire Configurations (Standard RS-232C cable)

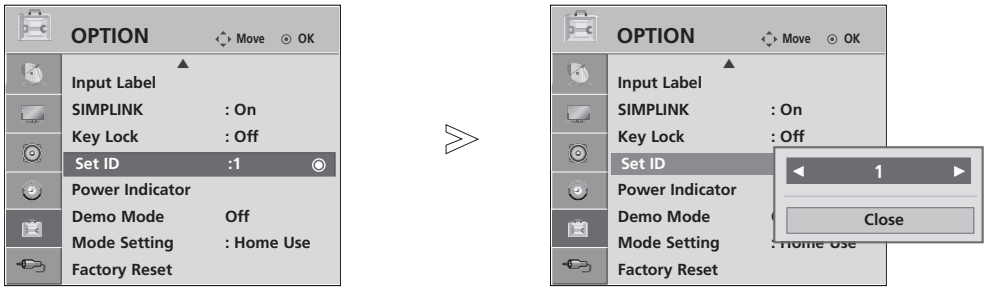
	PC	TV	
RXD	2	3	TXD
TXD	3	2	RXD
GND	5	5	GND
DTR	4	6	DSR
DSR	6	4	DTR
RTS	7	8	CTS
CTS	8	7	RTS
	D-Sub 9	D-Sub 9	

3-Wire Configurations(Not standard)

	PC	TV	
RXD	2	3	TXD
TXD	3	2	RXD
GND	5	5	GND
DTR	4	6	DTR
DSR	6	4	DSR
RTS	7	7	RTS
CTS	8	8	CTS
	D-Sub 9	D-Sub 9	

Set ID

Use this function to specify a set ID number.
Refer to 'Real Data Mapping'. ▶ p.107



1 MENU Select **OPTION**.

2 OK Select **Set ID**.

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

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

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

	COMMAND1	COMMAND2	DATA (Hexadecimal)		COMMAND1	COMMAND2	DATA (Hexadecimal)
01. Power	k	a	00 to 01	13. Balance	k	t	00 to 64
02. Aspect Ratio	k	c	Refer to p.105	14. Colour Temperature	k	u	00 to 02
03. Screen Mute	k	d	Refer to p.105	15. Abnormal Status	k	z	FF
04. Volume Mute	k	e	00 to 01	16. Auto Configure	j	u	01
05. Volume Control	k	f	00 to 64	17. Channel Add/Del	m	b	00 to 01
06. Contrast	k	g	00 to 64	18. Key	m	c	Key Code
07. Brightness	k	h	00 to 64	19. Input select (Main)	x	b	Refer to p.107
08. Colour	k	i	00 to 64	20. Control Back Light	m	g	00 to 64
09. Tint	k	j	00 to 64	21. Energy Saving	j	q	Refer to p.107
10. Sharpness	k	k	00 to 64	22. Tune Command	m	a	Refer to p.107
11. OSD Select	k	l	00 to 01	23. Treble	k	r	00 to 64
12. Remote Control Lock /Key Lock Mode	k	m	00 to 01	24. Bass	k	s	00 to 64

Transmission / Receiving Protocol

Transmission

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

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

[Command 2] : Second command to control the set.

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

OK Acknowledgement

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

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

Error Acknowledgement

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

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

[Command 2] : use as command.

[Set ID]: use the small character, if set ID is 10, TV will send the '0', 'a'

[Data]: use the small character, if data is 0xab, TV will send the 'a', 'b'.

[NG]: use the large character.

01. Power (Command: k a)

To control Power On/Off of the TV.

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

Data 00 : Power Off Data 01 : Power On

Acknowledgement [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 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 02: Wide screen (16:9)
Data 04: Zoom
Data 06: Original
Data 07: 14:9
Data 09: Just Scan
Data 10 to 1f: Cinema Zoom

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

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

03. Screen Mute (Command: k d)

To select screen mute on/off.

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

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

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

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

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

05. Volume Control (Command: k f)

To adjust volume.

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

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

Data Min : 00 to Max : 64

Refer to 'Real data mapping 1 '. See page 107.

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

06. Contrast (Command: k g)

To adjust screen contrast.

You can also adjust contrast in the PICTURE menu.

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

Data Min : 00 to Max : 64

Refer to 'Real data mapping 1'. See page 107.

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

07. Brightness (Command: k h)

To adjust screen brightness.

You can also adjust brightness in the PICTURE menu.

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

Data Min : 00 to Max : 64

Refer to 'Real data mapping 1'. See page 107.

Acknowledgement [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.

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

Data Min : 00 to Max : 64

Refer to 'Real data mapping 1'. See page 107.

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

09. Tint (Command: k j)

To adjust the screen tint.

You can also adjust tint in the PICTURE menu.

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

Data Red : 00 to Green : 64

Refer to 'Real data mapping 1'. See page 107.

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

APPENDIX

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 107.

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

11. OSD Select (Command: k l)

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

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

Data 00: OSD off
Data 01: OSD on

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

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

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

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

Data 00: Lock off Data 01: Lock on

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

* 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 107.

Acknowledgement [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.

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

Data 00: Medium 01: Cool 02: Warm

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

15. Abnormal State (Command: k z)

To recognize an abnormal state.

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

Data FF: Read

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

Data 00: Normal (Power on and signal exist)
Data 01: No signal (Power on)
Data 02: Turn the TV off by remote control
Data 03: Turn the TV off by sleep time function
Data 04: Turn the TV off by RS-232C function
Data 05: 5V down
Data 06: AC down
Data 07: Turn the TV off by Fan Alarm function (option)
Data 08: Turn the TV off by Off time function
Data 09: Turn the TV off by Auto off function
Data a: Turn the TV off by AV board detection.
* This function is "read only".

16 . 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]

17. Channel Skip(Command: m b)

To set skip status for the current Programme.

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

Data 00 : Skip 01 : Add

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

18. Key (Command: m c)

To send IR remote key code.

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

Data: Key code - Refer to page 101.

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

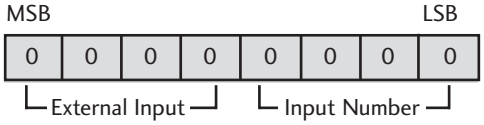
19. Input select (Command: x b)

(Main Picture Input)

To select input source for TV.

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

Data: Structure



External Input				Data
0	0	0	1	Analog
0	0	1	0	AV
0	1	0	0	Component
0	1	1	0	RGB-PC
1	0	0	1	HDMI

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]

20. Control Back Light (Command: m g)

To Control the back light.

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

Data : data Min: 00 to Max: 64
(* transmit by Hexadecimal code)

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

21. Energy Saving (Command: j q)

To reduce the power consumption of the TV. You can also adjust Energy Saving in OPTION menu.

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

Data Min: 00H to Max: 05H
Data 00 : Off
01 : Minimum
02 : Medium
03 : Maximum
05 : Screen Off

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

22 . 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 107.

Data2: 00

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

23. Treble (Command: k r)

To adjust treble.
You can also adjust treble in the AUDIO menu.

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

Data Min : 00 to Max : 64
* Refer to 'Real data mapping 1' See page 107.

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

24. Bass (Command: k s)

To adjust bass.
You can also adjust bass in the AUDIO menu.

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

Data Min : 00 to Max : 64
* Refer to 'Real data mapping 1' See page 107.

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

*** Real data mapping 1**

00 : Step 0
⋮
A : Step 10
⋮
F : Step 15
10 : Step 16
⋮
64 : Step 100
⋮
6E : Step 110
⋮
73 : Step 115
74 : Step 116
⋮
C7 : Step 199
⋮
FE : Step 254
FF : Step 255



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. : _____