



OWNER'S MANUAL LCD TV

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

P/NO: MFL67162109 (1111-REV02) Printed in Korea

www.lg.com



HDMI

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Wall Mounting Bracket LSW100B or LSW200B or LSW200BG (Only 32LD462B) (Only 37/42/47LD462B)









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PREPARATION

ACCESSORIES

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

■ Image shown may differ from your TV.







EzSign TV Editor S/W & Manual



Batteries (AAA)



Remote Control



Power Cord

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.



1-screw for stand fixing (Only 32/37/42LD462B)



Bolts for stand assembly



Protection Cover





PREPARATION

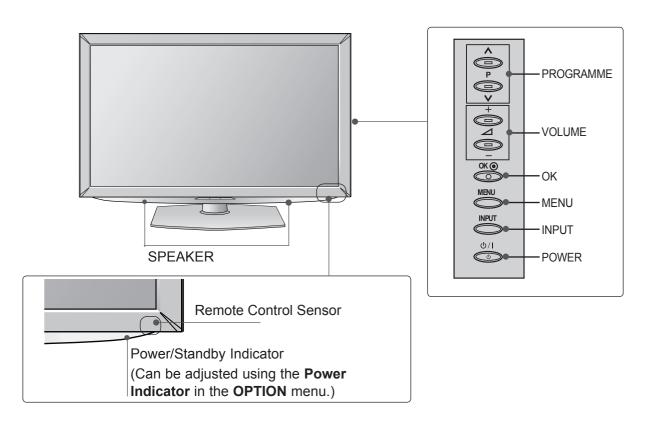
FRONT PANEL CONTROLS

NOTE

- ▶ TV can be placed in standby mode in order to reduce the power consumption. And TV should be switched off using the power switch on the TV if it will not be watched for some time, as this will reduce energy consumption.
- ▶ 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.

A 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 differ from your TV.





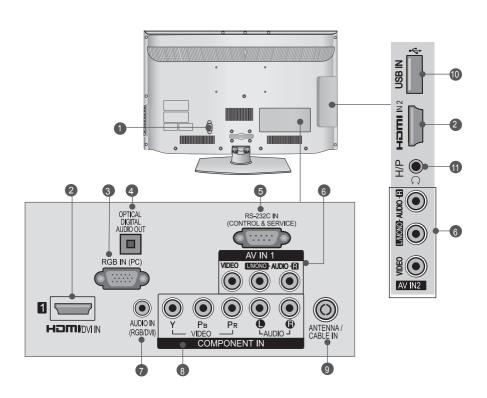






BACK PANEL INFORMATION

■ Image shown may differ from your TV.



- 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.
- Phomi/DVI IN Input Connect an HDMI signal to HDMI IN. Or DVI (VIDEO) signal to HDMI/DVI port with DVI to HDMI cable.
- **3 RGB IN Input**Connect the output from a PC.
- OPTICAL DIGITAL AUDIO OUT Connect digital audio to various types of equipment. Connect to a Digital Audio Component. Use an Optical audio cable.
- **6** RS-232C IN (CONTROL & SERVICE) PORT Connect to the RS-232C port on a PC. This port is used for Service or Hotel mode.

- 6 Audio/Video Input Connect audio/video output from an external device to these jacks.
- RGB/DVI Audio Input Connect the audio from a PC or DTV.
- Component Input Connect a component video/audio device to these jacks.
- Antenna / Cable Input Connect antenna or cable to this jack.
- USB Input Connect USB storage device to this jack.
- Headphone Socket
 Plug the headphone into the headphone socket.





PREPARATION

STAND INSTALLATION

■ Image shown may differ from your TV.

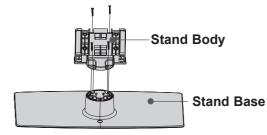
When assembling the desk type stand, check whether the bolt is fully tightened. (If not tightened fully, the product can tilt forward after the product installation.) If you tighten the bolt with excessive force, the bolt can deviate from abrasion of the tightening part of the bolt.



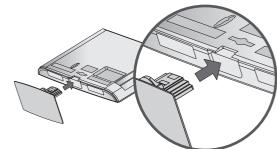
Carefully place the TV screen side down on a cushioned surface to protect the screen from damage.



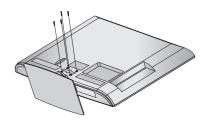
Assemble the parts of the **Stand Body** with the **Stand Base** of the TV.



Assemble the TV as shown.



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

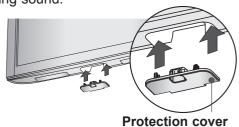


NOT USING THE DESK-TYPE STAND

■ Image shown may differ from your TV.

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

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



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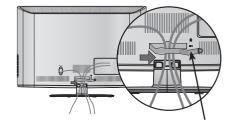
BACK COVER FOR WIRE ARRANGEMENT

- Image shown may differ from your TV.
- Connect the cables as necessary.

 To connect additional equipment, see the External equipment setup section.

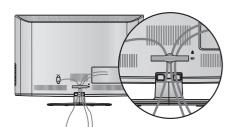


Open the **Cable Management Clip** as shown and manage the cables.



Cable Management Clip

3 Fit the Cable management clip as shown.



NOTE

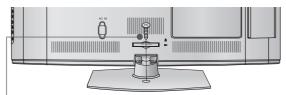
- ► Do not use the **CABLE MANAGEMENT CLIP** to lift the TV.
- If the TV is dropped, you may be injured or the TV may be damaged.

ATTACHING THE TV TO A DESK

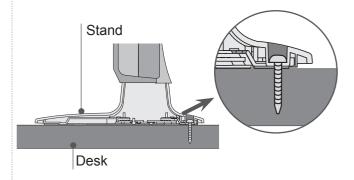
(Only 32/37/42LD462B)

■ Image shown may differ 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.



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.



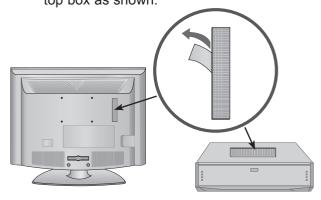


PREPARATION

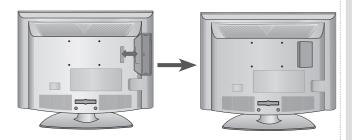
■ This feature is not available for all models.

Fix the set-top box to the TV and use it when you want to.

After removing the protection paper from the Dual Lock, stick it to the TV and the settop box as shown.



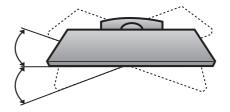
Attach the set-top box to the TV by pressing the Velcro strips together.



SWIVEL STAND

■ Image shown may differ from your TV.

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



HOW TO USE DUAL LOCK™ KENSINGTON SECURITY SYSTEM

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

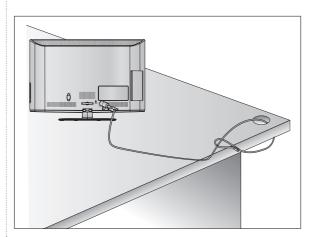
For the detailed installation and use of the Kensington Security System, refer to the user's guide provided with the Kensington Security System.

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 it is turned on.
- ► 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.



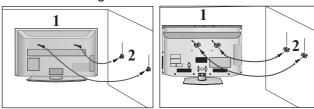




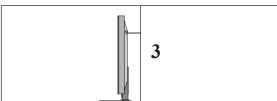


CAREFUL INSTALLATION ADVICE

- 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.



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



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

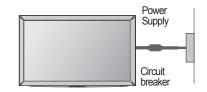
- ▶ When moving the TV undo the cords first.
- ▶ Use a platform or cabinet strong and large enough to support the size and weight of the TV.
- ➤ To use the TV safely make sure that the height of the bracket on the wall and on the TV is the same.

- 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

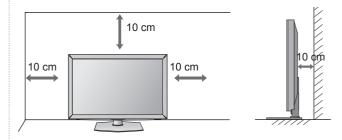
Ensure that you connect the earth wire to prevent possible electric shock. If grounding methods are not possible, have a qualified electrician install a separate circuit breaker.

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.







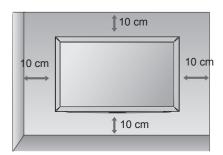
PREPARATION

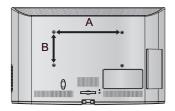
WALL MOUNT: HORIZONTAL INSTALLATION

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



- ► Should Install wall mount on a solid wall perpendicular to the floor.
- ► Should use a special wall mount, if you want to install it to ceiling or slanted wall.
- ➤ The surface that wall mount is to be mounted on should be of sufficient strength to support the weight of TV set; e.g. concrete, natural rock, brick and hollow block.
- ► Installing screw type and length depends on the wall mount used. Further information, refer to the instructions included with the mount.
- ► LG is not liable for any accidents or damage to property or TV due to incorrect installation:
 - Where a non-compliant VESA wall mount is used.
 - 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
32LD462B	200 * 100	M4	4
37/42/47 LD462B	200 * 200	M6	4





A-8





REMOTE CONTROL KEY FUNCTIONS

When using the remote control, aim it at the remote control sensor on the TV. In Analogue TV and some countries, some remote control keys may not work.

■ Image shown may differ from your TV.



(POWER) Switches the TV on from standby or off to standby.

ENERGY Adjust the Energy Saving mode of the TV.(▶ p.74) SAVING

AV MODE It helps you select and set images and sounds when connecting AV devices.(▶ p.36)

INPUT External input mode rotate in regular sequence.(► n.30)

TV/RAD Selects Radio, TV and DTV channel.

0~9 number Selects a programme.

button Selects numbered items in a menu.

LIST Displays the programme table.

Q.VIEW Returns to the previously viewed programme.

MENU Selects a menu.

Clears all on-screen displays and returns to TV viewing from any menu.(▶ p.16)

GUIDE Shows Contents List in EzSign mode. (EzSign V1.5 or Later)

Q. MENU Select the desired quick menu source. (> p.15)

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

OK Accepts your selection or displays the current mode.

BACK Allows the user to move return one step in an interactive application or other user interaction function.

INFO (i) Shows or hides the information on TV remote control buttons in EzSign mode.

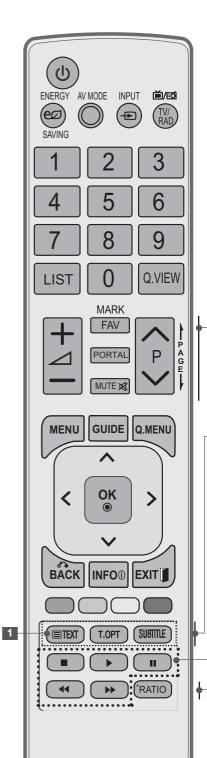
EXIT Clears all on-screen displays and returns to TV viewing from any menu.

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





PREPARATION



VOLUME UP Adjusts the volume. /DOWN

MARK Select the input to apply the Picture Wizard

settings.

Check and un-check programmes in the USB menu

FAV Displays the selected favourite programme.

PORTAL Displays the EzSign content on a TV Screen.

MUTE Switches the sound on or off.

Programme Selects a programme. UP/DOWN

PAGE UP/ Move from one full set of screen information to the DOWN next one.

TELETEXT These buttons are used for teletext.

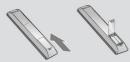
BUTTONS For further details, see the 'Teletext' section.(▶ p.106)

SUBTITLE Recalls your preferred subtitle in digital mode.

MY MEDIA Controls MY MEDIA menu. Menu control buttons

RATIO Selects your desired Aspect Ratio of picture. (▶p.71)

Installing Batteries



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





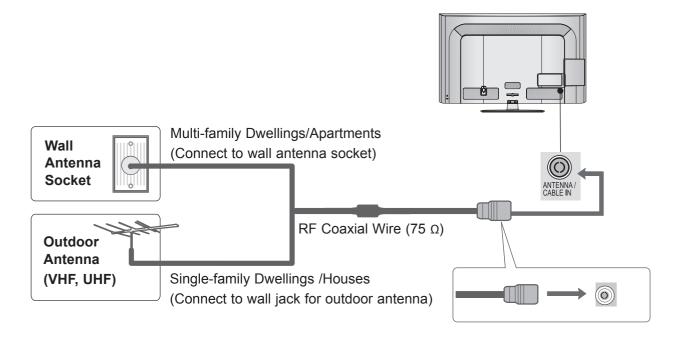


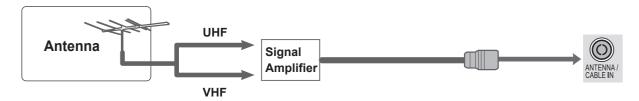
EXTERNAL EQUIPMENT SETUP

■ 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.





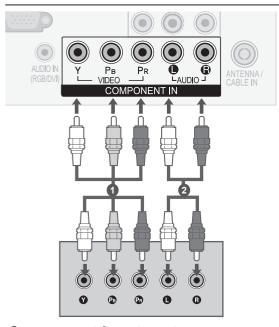
EXTERNAL EQUIPMENT SETUP

- To avoid damaging any equipment, never plug in any power cord until you have finished connecting all equipment.
- This section on **EXTERNAL EQUIPMENT SETUP** mainly uses diagrams for the 32/27/42/47LD462B models.
- Image shown may differ from your TV.

CONNECTING WITH A COMPONENT CABLE

- This TV can receive Digital RF/Cable signals without an external digital set-top box. However, if you do receive Digital signals from a digital set-top box or other digital external device, refer to the diagram as shown below.
- Connect the video outputs (Y, PB, PR) of the external equipment (digital set-top box, DVD, etc.) to the **COMPONENT IN VIDEO** jacks on the TV.
- Connect the audio output of the external equipment (digital set-top box, DVD, etc.) to the **COMPONENT IN AUDIO** jacks on the TV.
- Turn on the external equipment.

 (Refer to the external equipment's manual for operating instructions.)
- Select the **Component** input source using the **INPUT** button on the remote control.



Component Input ports

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

Component ports on the TV	Y	Рв	P _R
	Υ	Рв	PR
Video output ports	Y	B-Y	R-Y
on DVD player	Y	Cb	Cr
	Y	Pb	Pr







► HDMI Audio Supported format : Dolby Digital, PCM DTS Audio format is not supported.

Signal	Component	НДМІ
480i/576i	0	X
480p/576p	0	0
720p/1080i	0	0
1080p	O (50 Hz / 60 Hz only)	O (24 Hz / 30 Hz / 50 Hz / 60 Hz)

CONNECTING WITH AN HDMI CABLE

- Connect the HDMI output of the external equipment (digital settop box, DVD, etc.) to **HDMI/DVI IN 1** or **HDMI IN 2** jack on the TV.
- Turn on the external equipment.
 (Refer to the external equipment's manual for operating instructions.)
- Select **HDMI1**, **HDMI2** input source using the **INPUT** button on the remote control.



• NOTE

- ► The TV can receive video and audio signals simultaneously when using an 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.
- ▶ The TV set can process audio format of PCM or Dolby Digital, when connect the external equipment using an HDMI cable.



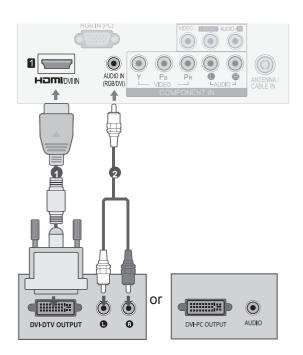


EXTERNAL EQUIPMENT SETUP

CONNECTING WITH AN HDMI TO DVI CABLE

- Connect the digital set-top box or the DVI output of the PC to **HDMI/DVI IN 1** jack on the TV.
- Connect the audio output of the digital set-top box or the PC audio output to the AUDIO IN (RGB/DVI) jack on the TV.
- Turn on the digital set-top box or the PC and the TV.

 (Refer to the digital set-top box or the PC manual for operating instructions.)
- Select **HDMI1** input source using the **INPUT** button on the remote control.



CONNECTING WITH AN RCA CABLE

- Connect the **AUDIO/VIDEO** jacks between TV and VCR or external equipment.
- Insert a video tape into the VCR and press PLAY on the VCR. (Refer to the VCR owner's manual.)

Or, Operate the corresponding external equipment.

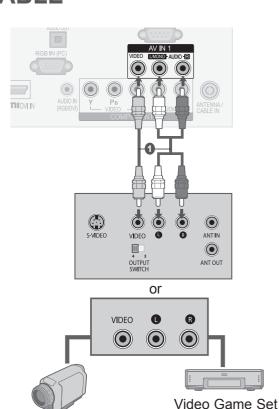
(Refer to external equipment operating guide.)

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

If connected to AV IN 2 input, select AV 2 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.



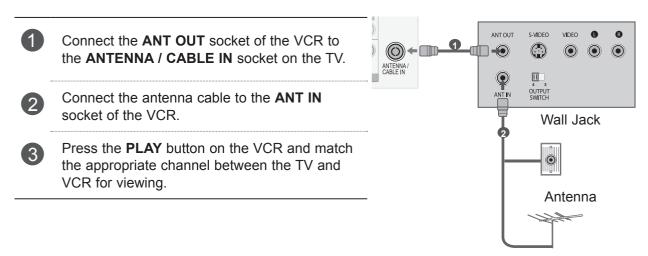
Camcorder





CONNECTING WITH AN RF CABLE

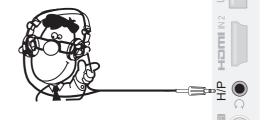
■ To avoid picture noise (interference), allow adequate distance between the VCR and TV.



HEADPHONE SETUP

You can listen the sound through the headphone.

- Plug the headphone into the headphone socket.
- To adjust the headphone volume, press the ∠ + or - button. If you press the MUTE button, the sound from the headphone is switched off.



NOTE

- ▶ AUDIO menu items are disabled when connecting a headphone.
- ▶ When changing AV MODE with a headphone connected, the change is applied to video but not to audio.
- ▶ Optical Digital Audio Out is not available when connecting a headphone.
- \blacktriangleright Headphone impedance: 16 Ω
- ► Max audio output of headphone: 10 mW to 15 mW



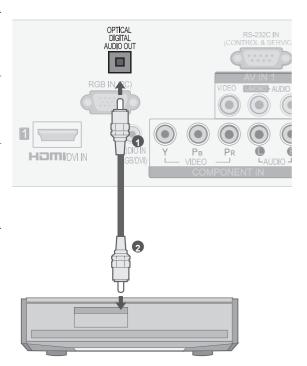


EXTERNAL EQUIPMENT SETUP

DIGITAL AUDIO OUT SETUP

Sending the TV's audio signal to external audio equipment via the Digital Audio Output (Optical) port. If you want to enjoy digital broadcasting through 5.1-channel speakers, connect the OPTICAL DIGITAL AUDIO OUT terminal on the back of TV to a Home Theater (or amp).

- Connect one end of an optical cable to the TV Digital Audio (Optical) Output port.
- Connect the other end of the optical cable to the digital audio (Optical) input on the audio equipment.
- Set the "TV Speaker option Off" in the AUDIO menu. (▶ p.89). Refer to the external audio equipment instruction manual for operation.



A CAUTION

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

NOTE

▶ When connecting with external audio equipments, such as amplifiers or speakers, please turn the TV speakers off.

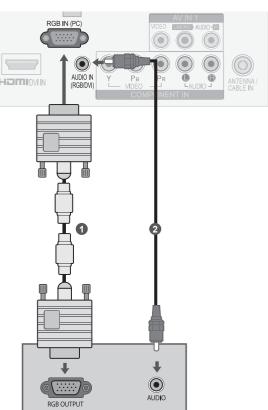




CONNECTING WITH A D-SUB 15 PIN CABLE

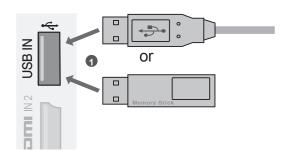
This TV provides Plug and Play capability, meaning that the PC adjusts automatically to the TV's settings.

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



USB SETUP

- Connect the USB device to the USB IN 1 or USB IN 2 jack on the TV.
- After connecting the USB IN 1 or USB IN 2 jack, you use the USB function. (▶ p.38)







EXTERNAL EQUIPMENT SETUP

SUPPORTED DISPLAY RESOLUTION

RGB-PC, HDMI-PC mode

Resolution	Horizontal Frequency(kHz)	Vertical Frequency(Hz)
720x400	31.468	70.08
640x480	31.469	59.94
800x600	37.879	60.31
1024x768	48.363	60.00
1280x768	47.78	59.87
1360x768	47.72	59.80
1280x1024	63.981	60.02
1920x1080	66 507	E0.03
(RGB-PC)	66.587	59.93
1920x1080	67 F	60.00
(HDMI-PC)	67.5	60.00

HDMI-DTV mode

Resolution	Horizontal Frequency(kHz)	Vertical Frequency(Hz)
720x480	31.469	59.94
720x460	31.5	60
720x576	31.25	50
	37.5	50
1280x720	44.96	59.94
	45	60
	33.72	59.94
	33.75	60
	28.125	50
	26.97	23.97
1920x1080	27	24
1920x1000	33.716	29.976
	33.75	30.00
	56.25	50
	67.43	59.94
	67.5	60







NOTE

- ➤ Avoid keeping a fixed image on the set's screen for prolonged periods of time. The fixed image may become permanently imprinted on the screen; use a screen saver when possible.
- ▶ There may be interference relating to resolution, vertical pattern, contrast or brightness in PC mode. Change the PC mode to another resolution or change the refresh rate to another rate or adjust the brightness and contrast on the menu until the picture is clear. If the refresh rate of the PC graphic card can not be changed, change the PC graphic card or consult the manufacturer of the PC graphic card.
- ► The synchronization input waveform for Horizontal and Vertical frequencies are separate.
- ➤ We recommend using 1920x1080, 60 Hz for the PC mode, this should provide the best picture quality.
- ▶ Connect the signal cable from the monitor output port of the PC to the RGB (PC) port of the TV or the signal cable from the HDMI output port of the PC to the HDMI IN (or HDMI/DVI IN) port on the TV.

- ➤ Connect the audio cable from the PC to the Audio input on the TV. (Audio cables are not included with the TV).
- ▶ If using a sound card, adjust PC sound as required.
- ▶ If the graphic card on the PC does not output analogue and digital RGB simultaneously, connect only one of either RGB or HDMI IN (or HDMI/DVI IN) to display the PC output on the TV.
- ▶ If the graphic card on the PC does output analogue and digital RGB simultaneously, set the TV to either RGB or HDMI; (the other mode is set to Plug and Play automatically by the TV.)
- ▶ DOS mode may not work depending on the video card if you use an HDMI to DVI cable.
- ▶ If you use too long an RGB-PC cable, there may be interference on the screen. We recommend using under 5m of cable. This provides the best picture quality.







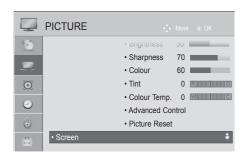
EXTERNAL EQUIPMENT SETUP

SCREEN SETUP FOR PC MODE

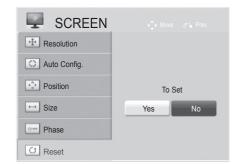
Screen Reset

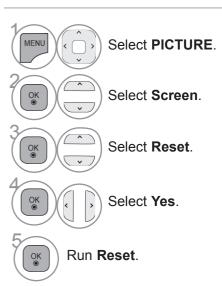
Returns Position, Size and Phase to the factory default settings.

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









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



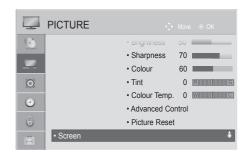


Auto Configure (RGB [PC] mode only)

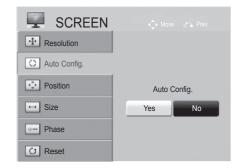
Automatically adjusts the picture position and minimizes image instability. After adjustment, if the image is still not correct, your TV is functioning properly but needs further adjustment.

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.









- Select Auto Config..
- Select **Yes**.
- 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.



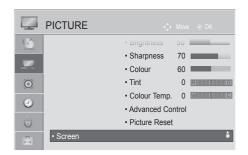


EXTERNAL EQUIPMENT SETUP

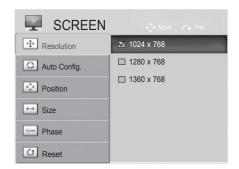
Selecting Resolution

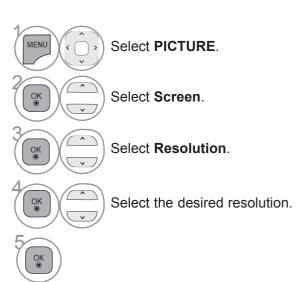
To view a normal picture, match the resolution of RGB mode and selection of PC mode.

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









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

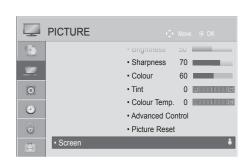




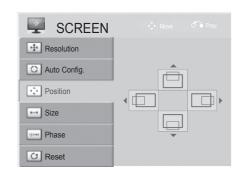
Adjustment for screen Position, Size, Phase

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

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









Select **PICTURE**.



Select Screen.



Select Position, Size or Phase.



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.





WATCHING TV / PROGRAMME CONTROL

TURNING ON THE TV

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

- Firstly, connect the power cord correctly.

 At this stage, the TV switches to standby mode.
- In standby mode to turn TV on, press the \circlearrowleft / I, INPUT or P \land \lor button on the TV or press the POWER, INPUT, P \land \lor or NUMBER button on the remote control and the TV will switch on.

INITIALIZING SETUP

If the OSD (On Screen Display) is displayed on the screen after turning on the TV, you can adjust the Language(Except for Australia, New Zealand, Singapore, South Africa), Power Indicator(Only LED LCD TV models), Country (Only Australia, New Zealand), Time Zone(Only Australia), Auto Tuning.

Note:

- a.If you close without completing the initial setting, the Initial Setting menu can be displayed again.
- b.Press the BACK button to change the current OSD to the previous OSD.
- c. For those countries without confirmed DTV broadcasting standards, some DTV features might not work, depending on the DTV broadcasting environment. (Only DTV)
- d."Home Use" mode is the optimal setting for home environments, and is the TV's default mode.

PROGRAMME SELECTION

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

VOLUME ADJUSTMENT

- Press the \triangle + 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, \triangle +, - or AV Mode button.



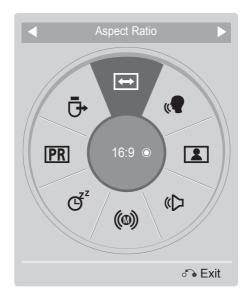


QUICK MENU

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 frequen tly.

- Aspect Ratio: Select your desired picture format. For Zoom Setting, select 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** : Select 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.

- (a) Audio or Audio Language : Select the sound output.
- **Sleep Timer**: Set the sleep timer.
- PR Skip Off/On: Select the Skip Off/On.
- USB Device: Selects "Eject" in order to eject USB device. If EzSign Content is running via USB, it may not work correctly after "USB Eject" has been selected. So please remove the attached USB Immediately after" USB Eject" has selected





Display each menu.



Select your desired Source.



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

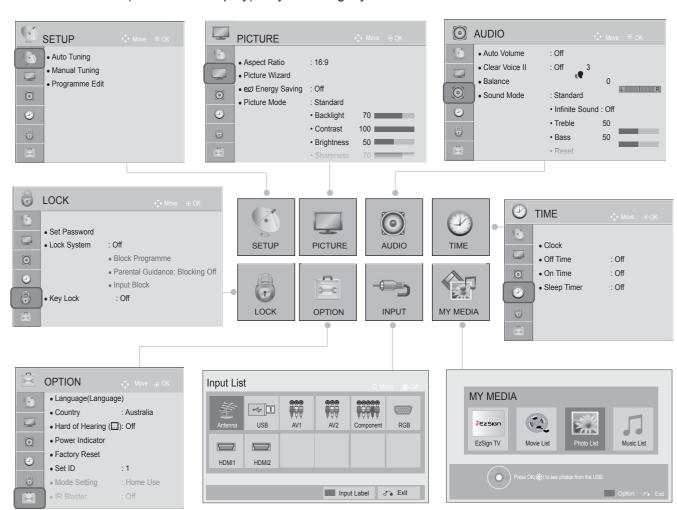




WATCHING TV / PROGRAMME CONTROL

ON SCREEN MENUS SELECTION AND ADJUSTMENT

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







- Press the **RED** button, you can check the **Customer Support** menu.
- Press the **GREEN** button, you can check the **Simple Manual** menu.
- Press the **MENU/EXIT** button to return to normal TV viewing.
- Press the **BACK** button to move to the previous menu screen.

• NOTE

- ▶ It is possible to use **Country** menu in Australia and New Zealand only.
- ▶ It is possible to use **Hard of Hearing**, **Parental Guidance** menu in DTV only.





AUTO PROGRAMME TUNING

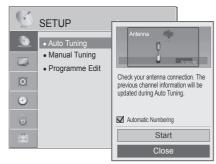
Use this to automatically find and store all available programmes.

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

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■ Image shown may differ from your TV.





- Use NUMBER buttons to input a 4-digit password in **Lock System 'On'**.
- If you wish to keep on auto tuning select
 Start using the
 button. Then, press
 the OK button. Otherwise select Close.
- Automatic Numbering: Decide whether to use the programme numbers as sent by broadcasting stations for tuning. (Only DTV)

- 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

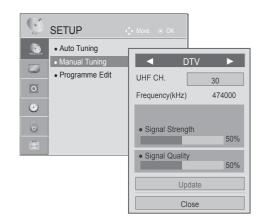
MANUAL PROGRAMME TUNING

(IN DIGITAL MODE)(ONLY DTV)

Manual Tuning lets you manually add a programme to your programme list.









 Use NUMBER buttons to input a 4-digit password in Lock System 'On'.

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

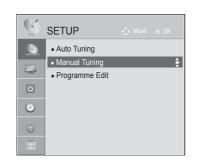




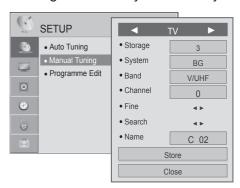
(IN ANALOGUE MODE)

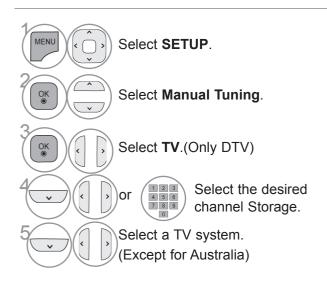
Manual Tuning lets you manually tune and arrange the stations in whatever order you desire.

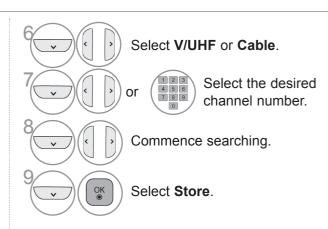
 \gg



■ Image shown may differ from your TV.







- Press the MENU/EXIT button to return to normal TV viewing.
- Press the **BACK** button to move to the previous menu screen.
- Use NUMBER buttons to input a 4-digit password in **Lock System 'On'**.
- **BG**: PAL B/G (New Zealand / South Africa / Singapore / Indonesia / Israel / Malaysia / Vietnam / Asia) **DK**: PAL D/K (New Zealand / South Africa / Singapore / Indonesia / Israel / Malaysia / Vietnam / Asia)

I: PAL I/II (New Zealand / South Africa / Singapore / Indonesia / Israel / Malaysia / Vietnam / Asia)

B/B: Australia

M: NTSC-M (South Africa / Indonesia / Israel / Malaysia / Vietnam / Asia)

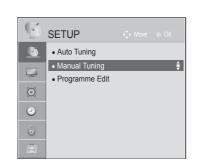
• To store another channel, repeat steps 4 to 9.



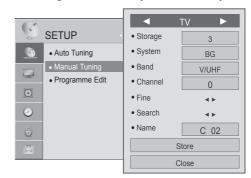


WATCHING TV / PROGRAMME CONTROL

(IN ANALOGUE MODE)



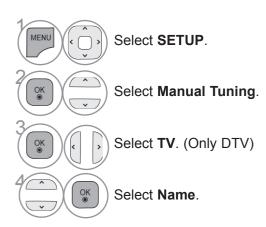
■ Image shown may differ from your TV.

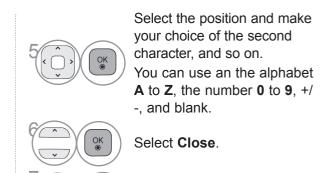


■ Assigning a station name

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

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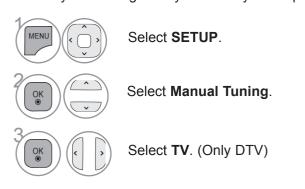




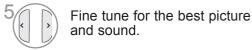
Select Store.

■ Fine Tuning

Normally fine tuning is only necessary if reception is poor.









- 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 $P \vee \land$ 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.

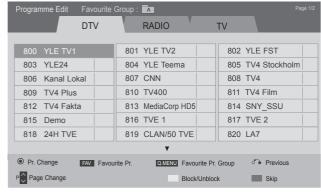
You can change the programme number using "Move"function, if "Automatic Numbering" is unchecked when you start Auto Tuning.(Only DTV)

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Image shown may differ from your TV.





- 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

(IN DTV/RADIO MODE) (Only DTV)

■ Locking a programme number



Select a programme number to be locked.



(YELLOW) Lock up the programme.



YELLOW Release.

 It can be registered as Lock programme even when Lock System is turned Off.

■ Skipping a programme number



Select a programme number to be skipped.



Turn the programme number to blue.



BLUE) Release.

- When programmes are to be skipped, the skipped programme shows in blue and these programmes will not be selected by the **P** \wedge v buttons during 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 or EPG.

(IN TV MODE)

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



Select a programme number to be deleted.

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



Turn the programme number to red.

■ Moving a programme



Select a programme number to be moved.





Turn the programme number to





■ Locking a programme number



Select a programme number to be locked.



Lock up the programme.



 It can be registered as Lock programme even when Lock System is turned Off.

■ Skipping a programme number



Select a programme number to be skipped.



Turn the programme number to blue.



BLUE Release.

- When a programme number is skipped it means that you will be unable to select it using the P ^ v button during normal TV
- 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 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.



Select your desired programme.



Add corresponding programme to Favourite list of current Favourite group.



Release.

■ Selecting favourite programme group



Select your desired programme.



Display a pop-up window where Favourite group can be changed.



Select a Favourite group.



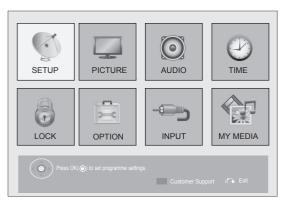


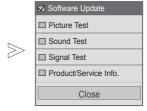
WATCHING TV / PROGRAMME CONTROL

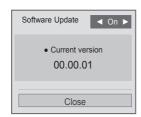
SOFTWARE UPDATE

You can update the TV with the latest software to enhance the product operation and/or add new features.

■ Image shown may differ from your TV.







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Select Customer Support.



Select Software Update.



Select On or Off.

• If you select **On**, a user confirm message box will be displayed to notify that new software is found.



Save.

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



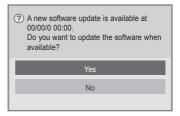


■ When setting "Software Update"

Occasionally, a transmission of updated digital software information will result in the following menu on the TV screen.



Simple Update : for current update stream

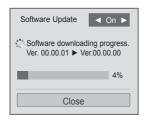


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Schedule Update: for scheduled update stream When the Software Update menu is "Off", the message to change it to "On" appears.

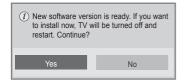
Download starts when "Yes" is selected. At this time, progressing pop-up window does not display.

Download progress status can be checked from Software Update menu.



A window as display below appears when download completes.

TV is restarted when "Yes" button is pressed.



- During Progress of a Software Update, please note the following:
- Power to the TV must not be interrupted.
- After Software Update, you can confirm the updated software version in Software Update menu.
- It may take hours to download the software, so make sure that the power stays on during the download. <Simple Update, Schedule Update>
- The antenna must not be disconnected.
- The software is downloaded only in Standby mode or in MUX with Software Update Service, and stops when the power cord is unplugged or when viewing MUX without Software Update Service.
- When you return to Standby mode or MUX with Software Update Service, the software download will resume from where it stopped.



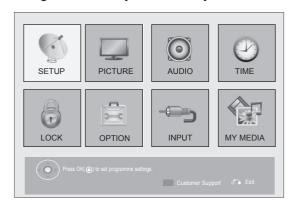


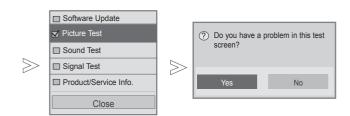
WATCHING TV / PROGRAMME CONTROL

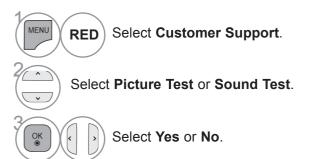
PICTURE/SOUND TEST

This function is a customer support function that can execute picture and sound tests.

■ Image shown may differ from your TV.







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





SIGNAL TEST (Only DTV)

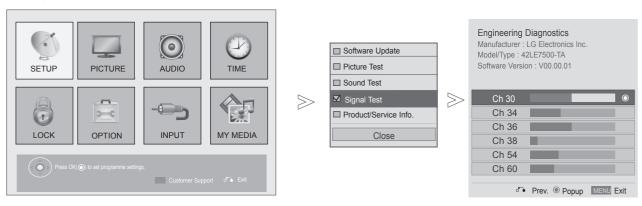
This function enables you to view information on the Manufacturer, Model/Type and Software Version.

This displays the information and signal strength of the tuned *MUX.

This displays the signal information and service name of the selected MUX.

(*MUX: A higher directory of channels in digital broadcasting (a single MUX contains multiple channels.))

■ Image shown may differ from your TV.





Select Customer Support.



Select Signal Test.



Display Manufacturer, Model/Type and Software Version.



Display the information of Channel.

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





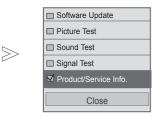
WATCHING TV / PROGRAMME CONTROL

PRODUCT/SERVICE INFORMATION

This function is a customer support function that can see product/service information and customer service center information.

■ Image shown may differ from your TV.







Select Customer Support.



Select Product/Service Info..



Display Model/Type, Software version, Serial Number, Used time, Customer service center and Homepage.

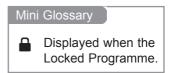
- Press the MENU/EXIT button to return to normal TV viewing.
- Press the **BACK** button to move to the previous menu screen.





SELECTING THE PROGRAMME LIST

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





■ Displaying programme LIST



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.



Turn the programme edit.

■ Selecting a programme in the programme list



Select a programme.



Switch to the chosen programme number.



The mode will be switched between TV, DTV, and Radio from the programme you are currently watching.(Only DTV)

■ Paging through a programme list



Turn the pages.



Return to normal TV viewing.

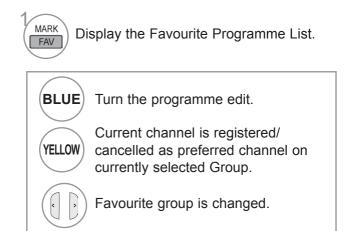




WATCHING TV / PROGRAMME CONTROL

■ Displaying the favourite programme list

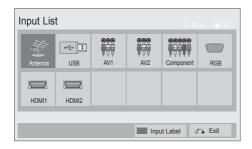




INPUT LIST

By using **TV/RAD** button, you can move from External Input to RF Input and to the last watched programme in DTV/RADIO/TV mode.(Only DTV)

■ Image shown may differ from your TV.





Select the input source.

- Antenna: Select it when watching the TV. (Only DTV: Select it when watching the DTV/TV/RADIO.)
- **USB**: Select it when using USB depends on connector.
- **AV**: Select it when watching the VCR or external equipment.
- Component: Select it when using the DVD or the Digital set-top box depends on connector.
- **RGB** :Select it when using PC depends on connector.
- **HDMI**: Select it when using DVD, PC or Digital set-top box depend on connector.

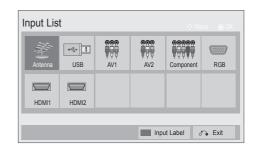




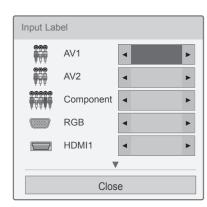
INPUT LABEL

Selects a label for each input source.

■ Image shown may differ from your TV.









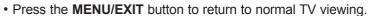
(BLUE) Select Input Label.



Select the source.



Select the label.



 \bullet Press the $\ensuremath{\mathbf{BACK}}$ button to move to the previous menu screen.



 \bigoplus



WATCHING TV / PROGRAMME CONTROL

DATA SERVICE

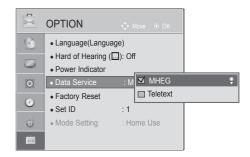
(This menu is enabled only in South Africa, Malaysia.)

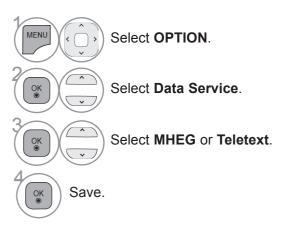
This function allow users to choose between **MHEG(Digital Teletext)** and **Teletext** if both exist at the same time

If only one of them exists, either **MHEG** or **Teletext** is enabled regardless of which option you selected.









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





SIMPLINK

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

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 to use SIMPLINK function, select "Off".





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

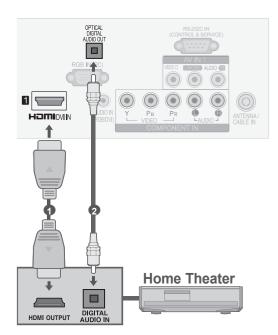




WATCHING TV / PROGRAMME CONTROL

Connecting to Home Theater with the SIMPLINK logo.

- Connect the **HDMI/DVI IN 1**, **HDMI IN 2** terminal on the back of the TV and the HDMI output terminal of the Home Theater using HDMI cables.
- Connect the Digital Audio output terminal on the back of the TV and the Digital Audio input terminal of the Home Theater using optical cables.
- Select Home Theater in the Speaker menu by pushing the **SIMPLINK** button.



► When you select or operate a media device with home theater function, the speaker automatically switches to home theater speaker (HT speaker).

• NOTE

- ► Connect the HDMI/DVI IN or HDMI IN terminal of the TV to the terminal (HDMI terminal) of the SIMPLINK device with the HDMI cable.
- ▶ When you switch the Input source using the INPUT button on the remote control, you can stop the operation of a device controlled by SIMPLINK.





SIMPLINK Functions

Disc playback

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

Direct Play

After connecting AV devices to the TV, you can directly control the devices and play media without additional set-

Select AV device

Enables you to select one of the AV devices connected to the TV and operate it.

Power off all devices

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

Switch audio-out

Offers an easy way to switch audio-out.

Sync Power on

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

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

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

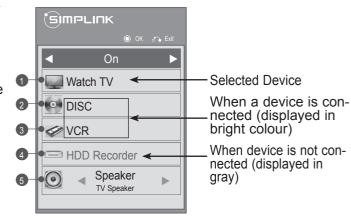
SIMPLINK Menu

Press the ^ < > button and then OK button to select the desired SIMPLINK source.

- **1 TV viewing :** Switch to the previous TV programme regardless of the current mode.
- DISC playback : Select and play connected discs.

When multiple discs are available, the device type 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.
- 6 Audio Out to Home theater/Audio Out to **TV:** Select Home theater or TV speaker for Audio Out.









WATCHING TV / PROGRAMME CONTROL

AV MODE

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

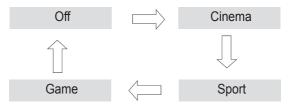
Off Disables the AV MODE.

Cinema Optimizes video and audio for watching movies.

Sport/Cricket Optimizes video and audio for watching sports events.

Game Optimizes video and audio for playing games.

■ Image shown may differ from your TV.





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



- If you select **Cinema** in AV mode, **Cinema** will be selected both for **Picture Mode** and **Sound Mode** in **PICTURE** menu and **AUDIO** menu respectively.
- $\bullet \ \text{If you select "} \textbf{Off"} \ \text{in AV mode, the picture and image which you initially set will be selected}.$
- When playing a video game using PlayStation or Xbox, it is recommended to use the **Game** mode.
- When in **Game** mode, functions related to picture quality will be optimized for playing games.





INITIALIZING(RESET TO ORIGINAL FACTORY SETTINGS)

This function initializes all settings.

But the settings of **Day** and **Night** of the **Picture Mode** cannot be initialized.

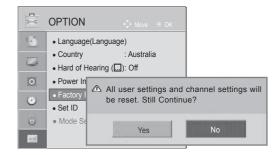
It is useful to initialize the product or when you move to other city or country.

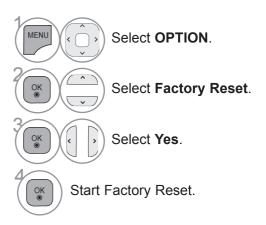
When the Factory Reset is completed, you must restart the Initializing setup.

When the **Lock System** menu is **"On"**, the message to enter the password appears.









• In **Lock System "On"**, if you forget your password, press '0', '3', '2', '5' on the remote control handset.

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





WHEN CONNECTING A USB DEVICE

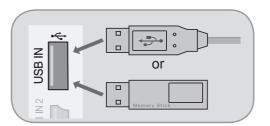
When you connect a USB device, this pop up menu is displayed, automatically.

"POP UP MENU" will not be displayed while the OSD including Menu, EPG or Schedule list is activated.

When the Pop Up menu appears, you can select Music List, Photo List or Movie List in the MY MEDIA menu.

In USB device, you can not add a new folder or delete the existing folder.

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



 Only photo(JPEG), music (MP3) and movie (DAT,MPG,MPEG,VOB,AVI,DIVX,MP4,MKV,T S,TRP,TP,ASF,WMV,FLV) are supported.



■ Image shown may differ from your TV.



When removing the USB device

Select the **USB Device** menu before removing the USB device.



Select **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 FAT32 file system, 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.
- ▶ Please connect power to a USB storage device(over 0.5 A) which requires an external power supply. If not, the device may not be recognized.
- ▶ Please connect a USB storage device with the cable offered by the device maker.
- ▶ Some USB storage devices may not be supported or operated smoothly.
- ► File alignment method of USB storage device is similar to Window XP and filename can recognize up to 100 English characters.
- ▶ Be sure to back up important files since data stored in a USB memory device may be damaged. We will not be responsible for any data loss.
- ▶ If the USB HDD does not have an external power source, the USB device may not be detected. So be sure to connect the external power source. Please use a power adaptor for an external power source. We do not guarantee an USB cable for an external power source.
- ▶ If your USB memory device has multiple partitions, or if you use a USB multi-card reader, you can use up to 4 partitions or USB memory devices.
- ▶ If a USB memory device is connected to a USB multi-card reader, its volume data may not be detected.
- ▶ If the USB memory device does not work properly, disconnect and reconnect it.
- ▶ How fast a USB memory device is detected differs from device to device.
- ▶ If the USB is connected in Standby Mode, specific hard disk will automatically be loaded when the TV is turned on.
- ▶ The recommended capacity is 1 TB or less for a USB external hard disk and 32 GB or less for USB memory.
- ▶ 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.
- ▶ USB storage devices below USB 2.0 are supported as well. But they may not work properly in the movie list.
- ▶ Maximum of 999 folders or files can be recognized under one folder.
- ▶ The file arrangement of the USB storage device is similar to that of Windows XP and supports up to 100 alphabetical characters.
- ▶ If there are a lot of folders or files all within one folder, the device may not be able to access these properly.



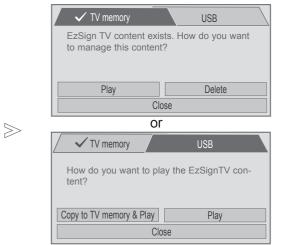


EZSIGN TV

The EzSign TV function allows you to play and manage high-quality ad content that you create quickly and easily using the EzSign TV Editor.

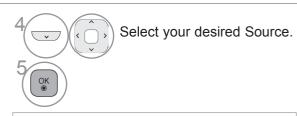
■ For more information of using, refer to the EzSign TV Editor S/W & Manual.

■ Image shown may differ from your TV.









■ The highlighted tab with the " ✓ " symbol indicates the location of the file currently being played.

TV memory

Play	Plays EzSign TV content in the memory.
Delete	Deletes EzSign TV content from the memory. • The TV restarts after the content is deleted.
Close	Closes the EzSign TV menu window.
USB	
Copy to TV memory & Play	Copies a file from the USB memory to the EzSign TV memory and plays it. Once the file has been copied, it can be played even when it is removed from the USB memory.
Play	Plays a file directly from the USB memory without copying it to the EzSign TV memory.
Close	Closes the EzSign TV menu window.





Using the remote control

While the content is being played from a USB device or TV memory, you can press a TV remote control button to switch to an EzSign mode or TV mode or see the content information.

EXIT	The mode is switched from EzSign to TV mode. The playing content or content list disappears, and a regular TV broadcasting is displayed on the full screen.
PORTAL	The mode is switched from TV to EzSign mode. The screen stops regular TV broadcasting, and EzSign TV content is played.
GUIDE	Deselect all marked movie files.
INFOΦ	Return to normal TV viewing.

• NOTE

- ▶ While loading EzSign TV content, your TV may function slower than normal.
- ▶ It is recommended that you copy files to the TV memory before playing them, as playing directly from the USB memory for an extended period of time may cause the device to overheat.
- ► In EzSign TV, some remote control keys may not work.
- ▶ In EzSign mode, the content is played. Only in this mode, you can see the information related to the EzSign contents (content screen, content list, TV remote button info, etc.)
- ▶ In TV mode, regular TV broadcasting is displayed on a full screen with no playback of the content. In this mode, you cannot see the content information using the Program Guide or information display key.





MOVIE LIST

You can play movie files on a USB storage device.

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.

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

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

Movie(*.mpg/*.mpeg/*dat/*.ts/*.trp/*.tp/*.vob/*.mp4/*.mov/*.mkv/*.divx/*.avi/*.asf/*.wmv/*.flv/*. avi(motion-jpeg)/*.mp4(motion-jpeg)/*.mkv(motion-jpeg))supporting file

Video format : DivX3.11, DivX4.12, DivX5.x, DivX6, Xvid1.00, Xvid1.01, Xvid1.02, Xvid1.03, Xvid1.10 beta-1/beta-2, Mpeg-1, Mpeg-2, Mpeg-4, H.264/AVC, VC1, JPEG, Sorenson H.263

Audio format : Dolby Digital, AAC, Mpeg, MP3, LPCM, HEAAC, ADPCM, WMA

Bit rate: within 32 kbps to 320 kbps(MP3)

External Subtitle format: *.smi/*.srt/*.sub(MicroDVD,Subviewer1.0/2.0)/*.ass/*.ssa/*.txt(TMPlayer)/*. psb(PowerDivX)

- Some user-created subtitles may not work properly.
- Some special characters are not supported in subtitles.
- HTML tags are not supported in subtitles.
- Subtitles in languages other than the supported languages are not available.
- Changing font and colour in subtitles is not supported.
- Subtitles in languages other than one specified are not supported.
- Video files with subtitle files of 1 MB or larger may not be played properly.
- The screen may suffer temporary interruptions (image stoppage, faster playback, etc.) when the audio language is changed.
- A damaged movie file may not be played correctly, or some player functions may not be usable.
- Movie files produced with some encoders may not be played correctly.
- If the video and audio structure of recorded file is not interleaved, either video or audio is outputted.
- HD videos with a maximum of 1920x1080@25/30P or 1280x720@50/60P are supported, depending on the frame.
- Videos with resolutions higher than 1920X1080@25/30P or 1280x720@50/60P may not work properly depending on the frame.
- Movie files other than the specified types and formats may not work properly.
- Max bitrate of playable movie file is 20 Mbps. (only, Motion JPEG : 10 Mbps.
- We do not guarantee smooth playback of profiles encoded level 4.1 or higher in H.264/AVC.
- DTS Audio codec is not supported.
- A movie file more than 30 GB in file size is not supported for playback.
- A DivX movie file and its subtitle file must be located in the same folder.
- A video file name and its subtitle file name must be identical for it to be displayed.
- Playing a video via a USB connection that doesn't support high speed may not work properly.
- The movie file encoded by the GMC (Global Motion Compensation) and Qpel (Quarterpel Motion Estimation) is not supported.
- When you are watching the movie by Movie List function, you can adjust an image by Energy
 Saving and AV Mode key on the remote control. User setup for each image mode does not operate.
- Trick Mode does not support other functions than ▶▶ if video files do not have index information.
- When playing video file using network, the Trick mode is limited to 2-times speed.
- Video file names that contain special characters may not be playable.





Supported DivX file

File Extension name	Video Decoder	Audio Codec	Max Resolution
mpg, mpeg	MPEG1, 2	MP2, MP3, Dolby Digital, LPCM	
dat	MPEG1	MP2	
to two to	MPEGG HOOMING WOM	MP2, MP3, Dolby Digital,	
ts, trp, tp	MPEG2, H.264/AVC, VC1	AAC, HE-AAC	
vob	MPEG1, 2	MP2, MP3, Dolby Digital, LPCM	
mp4, mov	MPEG4, DivX 3.11, DivX 4.12, DivX 5.x, DivX 6, Xvid 1.00, Xvid 1.01, Xvid 1.02, Xvid 1.03, Xvid 1.10-beta1/2, H.264/AVC	AAC, HE-AAC, MP3	
malo.	H.264/AVC, MPEG-1,2,4	MP2, MP3, Dolby Digital, AAC	1920x1080@30p
mkv		HE-AAC, LPCM	(only, Motion JPEG
divx, avi	MPEG2, MPEG4, DivX 3.11, DivX 4.DivX 5, DivX 6, Xvid 1.00, Xvid 1.01, Xvid 1.02, Xvid 1.03, Xvid 1.10-beta1/2b H.264/AVC	MP2, MP3, Dolby Digital, LPCM, ADPCM, AAC, HE-AAC	640x480@30p)
Motion JPEG (avi, mp4, mkv)	JPEG	LPCM, ADPCM	
asf, wmv	VC1	WMA	
flv	Sorenson H.263, H264	MP3, AAC	

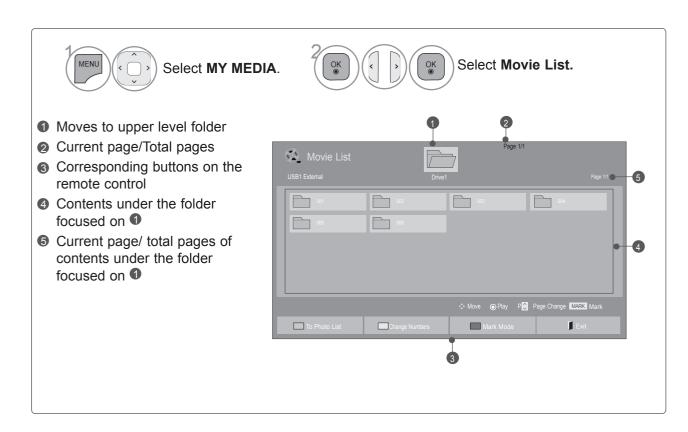






Screen Components

You can also adjust **USB** in the **INPUT** menu.



 Some files may be displayed the preview image by icon only.



 Non-supported files are displayed the preview image by icon only.



 Abnormal files are displayed in the form of bitmap.

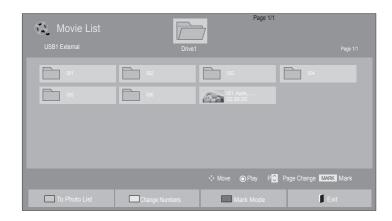






Movie Selection

■ When playing movie files

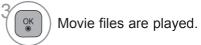




• Use the **P** ^ ∨ button to navigation in the movie page.



Select the desired movie title.



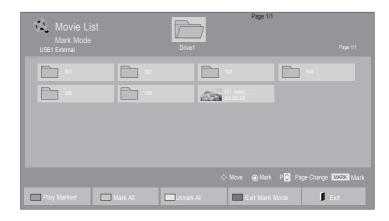
Using the remote control

GREEN	Repeatedly, press the GREEN button to converted to Photo List->Music List .
YELLOW	A method to view in 5 large thumbnail or simple list.
BLUE	Convert to Mark Mode.
EXIT	Return to normal TV viewing.
>	Press the PLAY(►) button to return to normal playback.





■ When selected movie files are played





 When one or more movie files are marked, the marked movies will be played in sequence.

• NOTE

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





Using the remote control

RED	Play the selected movie file. Once a movie file finishes playing, the next selected one will be played automatically.
GREEN	Mark all movie files on the screen.
YELLOW	Deselect all marked movie files.
BLUE	Exit the Mark Mode .
EXIT 1	Return to normal TV viewing.

NOTE

- ▶ If you select "Yes" from OSD when playing the same file after the movie file has been stopped, it will restart where it stopped previously.
- ▶ If continuous series files exist within the folder, the next file will automatically be played.

 But, this excludes cases when the **Repeat** function of Movie List Option is turned "**On**" (Refer to p. 50) or when set as Marked Play.
- ▶ In the case where files are not validated, a message will appear regarding invalid file.



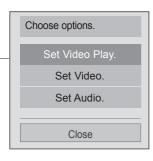




Using the Movie List function, play



■ Image shown may differ from your TV.





2

Select Set Video Play., Set Video. or Set Audio.

NOTE

- ▶ Option values changed in Movie List does not affect Photo List and Music List.
- ▶ Option value changed in **Photo List** and **Music List** are changed likewise in **Photo List** and **Music List** excluding **Movie List**.
- ▶ When replaying the video file after stopping, you can play from where it stopped previously.





Using the remote control

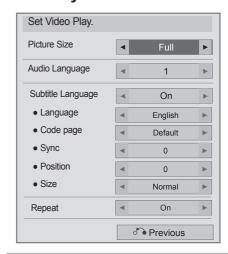
•	Stop the playing movie file.
>	Press the PLAY(▶) button to return to normal playback.
II	 During playback, press the Pause(II) button. Still screen is displayed. If no buttons are pressed on the remote control for 10 minutes after pausing, the TV returns to the playback state. Press the Pause(II) button and then use the FF(▶▶) button for slow motion.
44 / >>	When playing, repeatedly, press the $REW(\blacktriangleleft)$ button to speed up \blacktriangleleft (x2) -> \blacktriangleleft \blacktriangleleft (x4) -> \blacktriangleleft \blacktriangleleft (x8) -> \blacktriangleleft \blacktriangleleft \blacktriangleleft (x16) -> \blacktriangleleft \blacktriangleleft \blacktriangleleft (x32) . repeatedly, press the $FF(\triangleright)$ button to speed up \triangleright (x2)-> \triangleright \triangleright (x4) -> \triangleright \triangleright \triangleright (x8) -> \triangleright \triangleright \triangleright (x16) -> \triangleright \triangleright \triangleright (x32).
MENU Or Q.MENU	Show the Option menu.
BACK	Hide the menu on the full-sized screen. ■ To see the menu again on the full-sized screen, press OK button to display.
EXIT 1	Return to normal TV viewing.
<>	■ When using the 〈 or 〉 button during playback a cursor indicating the position can be viewed on the screen.
ENERGY EAVING	Press the ENERGY SAVING button repeatedly to change the brightness of your screen.(Refer to p.74)
AV MODE	Press the AV MODE button repeatedly to select the desired source.(Refer to p.36)







■ When you select the Set Video Play.





Select Picture Size, Audio Language, Subtitle Language or Repeat.



Make appropriate adjustments.

Subtitle Language	Support Language
Latin1	English, French, Spanish, Portuguese, Malaysia, Indonesia
Cyrillic	Russian
Thai	Thai
Hebrew	Hebrew
Arabic	Arab, Parsi, Krudish
Unicode(UTF-16)	Vietnamese language

- ► Picture Size : Selects your desired picture format during movie play.
- ► Audio Language: Changes the Language Group of the audio during movie play. Files with a single audio track cannot be selected.
- ➤ Subtitle Language : Turn on/off the subtitle.
- ► Language : Activated for SMI subtitle and can select the language within the subtitle.
- ► Code page: Can select the font for subtitle. When set to default, same font as general menu will be used.
- ➤ Sync : Adjusts the time synchronisation of the subtitle from -10 secs to +10 secs by steps of 0.5 secs during movie play.
- ➤ **Position**: Changes the position of the subtitle either up or down during movie play.
- ➤ Size : Selects your desired Subtitle size during movie play.
- ▶ Repeat: Turn on/off repeat function of movie playback. When turned on, the file within the folder will be played back repeatedly. Even when the repeated playback is turned off, it can run the playback if the file name is similar to the previous file.

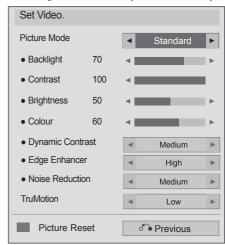
• NOTE

- ▶ Only 10,000 of sync blocks can be supported within the subtitle file.
- ▶ When playing a video, you can adjust the Picture Size by pressing the **RATIO** button.



■ When you select the Set Video.

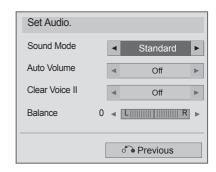
■ Image shown may differ from your TV.





Make appropriate adjustments.

■ When you select the Set Audio.



Select Sound Mode, Auto Volume, Clear Voice II or Balance.

Make appropriate adjustments.







PHOTO LIST

You can view photo files on USB storage device.

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

PHOTO(*.JPEG) supporting file

Baseline : 64 x 64 to 15360 x 8640 Progressive : 64 x 64 to 1920 x 1440

- You can play JPEG files only.
- Non-supported files are displayed in the form of predefined icon.
- An error message occurs for corrupted files or file formats that cannot be played.
- · Corrupted image files may not be displayed properly.
- It may take some time to view high-resolution images in full screen.

Screen Components

You can also adjust USB in the INPUT menu.

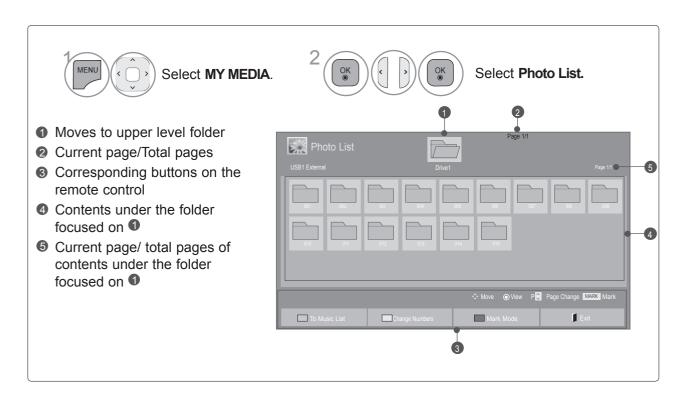
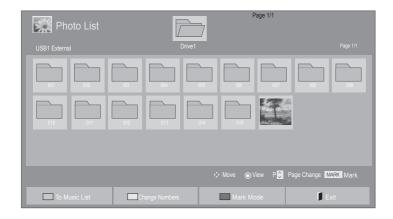






Photo Selection

■ When playing photo files



- Select the target folder or drive.
- Use the P ^ ∨ button to navigation in the photo page.



Select the desired photos.

Photo files are displayed.

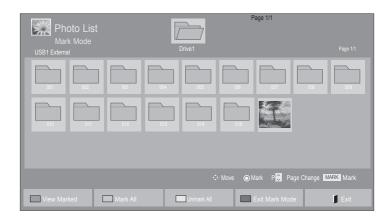
Using the remote control

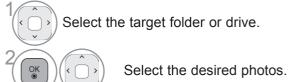
GREEN	Repeatedly, press the GREEN button to converted to Music List->Movie List .
YELLOW	A method to view in 5 large thumbnail or simple list.
BLUE	Convert to Mark Mode.
EXIT	Return to normal TV viewing.





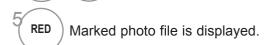
■ When selected photo files are displayed







 When one or more photos are marked, you can view each marked photo or a slide show of the marked photos. If no photos are marked, you can view every individual photo in the folder or a slide show of all photos in the folder.



Mark desired photo file.

Using the remote control

RED	Display the selected photo file.
GREEN	Mark all photo files on the screen.
YELLOW	Deselect all marked photo files.
BLUE	Exit the Mark Mode.
EXIT 1	Return to normal TV viewing.







How to view photo

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 **EXIT** button to move to the previous menu screen.



Select the target folder or drive.



Select the desired photos.



The selected photo is displayed in full size

 Use the P ^ ∨ button to navigation in the photo page.

- Press the **EXIT** button to go back to Photo List.
- Press the **BACK** button to make Help OSD disappear.









Select the
Slideshow,
BGM, ひ (Rotate),

Implicit (or ○),
ew, Option, Hide
or Exit.

- 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. If some photos are selected, those photos are displayed in a slide show.
 - Set the time interval of the slide show in **Option**.
- ▶ **BGM** (Background Music) : Listen to music while viewing photos in full size.
- Set the BGM device and album in Options before using this function.
- You can adjust **Option** by **Q.MENU** or **MENU** button on the remote control.
- ▶ ७ (Rotate) : Rotate photos.
- Rotates the photo 90°, 180°, 270°, 360° clockwise.
- It can not be rotate when the width of a picture is bigger than supported height.
- ▶ (ZOOM IN): View the photo by zoom in 2, 4 times.
- ► **I**/ : View the photo in full mode or original mode.
- ▶ e② : Press the **ENERGY SAVING** button repeatedly to change the brightness of your screen.(Refer to p.74)
- ▶ Option : Set values for Slide Speed and BGM.
- Use ^ ∨ < > button and **OK** button to set values. Press **OK** to save the settings.
- You cannot change **BGM** while BGM is playing.
- You can only select the MP3 folder saved on the device that currently displays the photo.
- ▶ Hide : Hide the menu on the full-sized screen.
- To see the menu again on the full-sized screen, press **OK** button to display.

Press the **EXIT** button to go back to **Photo List**.





Using the Photo List function



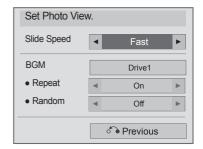




• NOTE

- ▶ Option values changed in Movie List does not affect Photo List and Music List.
- ▶ Option value changed in **Photo List** and **Music List** are changed likewise in **Photo List** and **Music List** excluding **Movie List**.

■ When you select the Set Photo View,





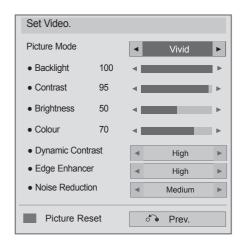
Make appropriate adjustments.







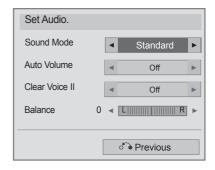
■ When you select the Set video,







■ When you select the Set Audio.



- Select Sound Mode, Auto Volume, Clear Voice II or Balance.
- Make appropriate adjustments.



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MUSIC LIST

You can play music files on USB storage device.

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.

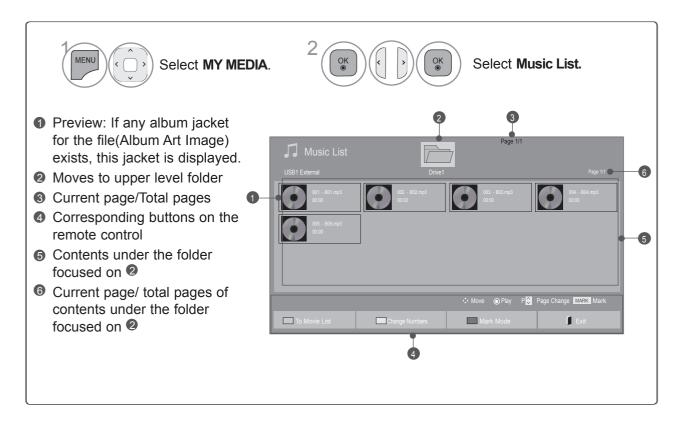
MUSIC (*.MP3) supporting file

Bit rate 32 to 320

- Sampling rate MPEG1 Layer3: 32 kHz, 44.1 kHz, 48 kHz
- Sampling rate MPEG2 Layer3 : 16 kHz, 22.05 kHz, 24 kHz
- Sampling rate MPEG2.5 Layer3: 8 kHz, 11.025 kHz, 12 kHz

Screen Components

You can also adjust $\boldsymbol{\mathsf{USB}}$ in the $\boldsymbol{\mathsf{INPUT}}$ menu.

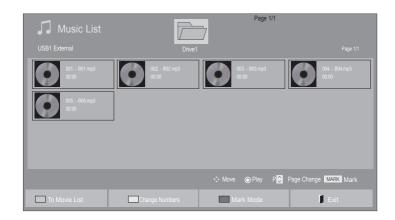






TO USE A USB DEVICE

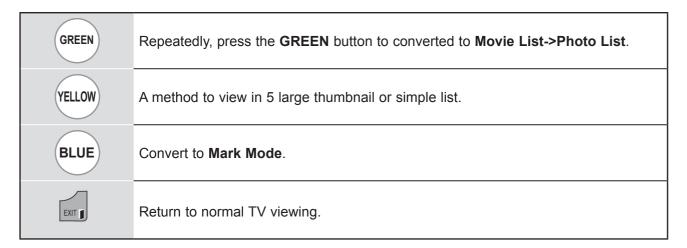
Music Selection



■ When playing music files

- Use the **P** ^ ∨ button to navigate up/down in the music page.
- Select the target folder or drive.
- Select the desired music title.
- Music files are played.

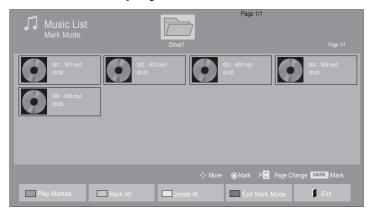
Using the remote control







■ When selected music files are played



- Select the target folder or drive.

 Select the desired music title.

 BLUE or FAV Convert to Mark Mode.

 Mark desired music file.

 RED Marked music file is played.
- 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 want to activate Random playback, you must set Option->Set audio play.->Random to On.

Using the remote control

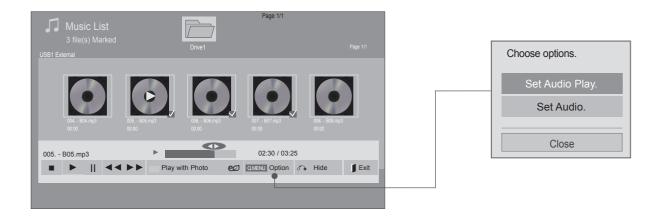
RED	Display the selected music file.
GREEN	Mark all music files on the screen.
YELLOW	Deselect all marked music files.
BLUE	Exit the Mark Mode.
EXIT	Return to normal TV viewing.





TO USE A USB DEVICE

Using the Music List function, play







• NOTE

- ▶ Option values changed in Movie List does not affect Photo List and Music List.
- ▶ Option value changed in Photo List and Music List are changed likewise in Photo List and Music List excluding Movie List.
- ▶ You can listen to the music only within the device currently played.







Using the remote control

-	Stop the playing music file.	
>	Press the PLAY(▶) button to return to normal playback.	
II	When you press the Pause(II) button while playing the file, the playback will be paused. When you press the Pause(II) button again while the playback is paused, it will resume the playback.	
44/ >>	When playing, When you press the REW(◀◀) button, the previous music file will be played. When you press the FF(▶▶) button, the next music file will be played.	
GREEN	Start playing the selected music files and then move to the Photo List .	
ENERGY SAVING	Press the ENERGY SAVING button repeatedly to change the brightness of your screen. Only Off/Screen Off operates from the Movie List, Photo List, Music List.	
MENU Or Q.MENU	Show the Option menu.	
BACK	■ When you press the Back button while the music is playing, the music player currently playing will be hidden and only the music list will be displayed.	
EXIT	 When you press the Exit button while the Music player is displayed, only the music will be stopped and the player will not return to normal TV viewing. When you press the Exit button while the music is stopped or while the music player is hidden, the player will return to normal TV viewing. 	
<>	■ When using the 〈 or 〉 button during playback a cursor indicating the position can be played.	

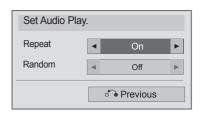






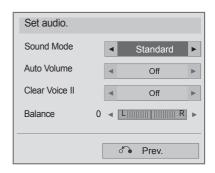
TO USE A USB DEVICE

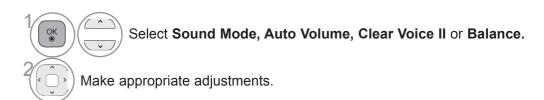
■ When you select the Set Audio Play,





■ When you select the Set Audio,





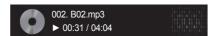




Using the remote control

- 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

- ▶ A damaged or corrupted music file does not play but displays 00:00 in playtime.
- ▶ A music file 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.
- ▶ 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 file and the ◀◀ button to select the previous music file.







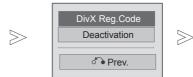
TO USE A USB DEVICE

DIVX® VOD GUIDE

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

■ Image shown may differ from your TV.









Select MY MEDIA.



Select DivX Reg. Code.



Display DivX Reg. Code.

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



ABOUT DIVX VIDEO: DivX® is a digital video format created by DivX, LLC, a subsidiary of Rovi Corporation. This is an official DivX Certified® device that plays DivX video. Visit DivX.com for more information and software tools to convert your files into DivX video.

ABOUT DIVX VIDEO-ON-DEMAND: This DivX Certified® device must be registered in order to play purchased DivX Video-on-Demand (VOD) movies. To obtain your registration code, locate the DivX VOD section in your device setup menu. Go to vod.divx.com for more information on how to complete your registration.

"DivX Certified® to play DivX® video up to HD 1080p, including premium content."

DivX®, DivX Certified® and associated logos are trademarks of Rovi Corporation or its subsidiaries and are used under license.

Covered by one or more of the following U.S. patents: 7,295,673; 7,460,668; 7,515,710; 7,519,274

• NOTE

► Movie files are supported as follows

Resolution: under 1920x1080 WxH pixels

Frame rate: under 30 frames/sec(1920x1080), under 60 frames/sec(under 1280x720)

► Video Codec: MPEG 1, MPEG 2, MPEG 4, H.264/AVC, DivX 3.11, DivX 4.12, DivX 5.x, DivX 6, Xvid 1.00, Xvid 1.01, Xvid 1.02, Xvid 1.03, Xvid 1.10-beta1, Xvid 1.10-beta2, JPEG, VC1, Sorenson H.263/H.264.





DIVX® VOD DEREGISTRATION

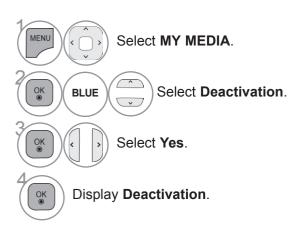
You should deregister your device with 8 digit DivX deregistration code from your device at www.divx. com/vod.





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

• NOTE

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





MHEG (MULTIMEDIA AND HYPERMEDIA INFORMATION CODING EXPERT GROUP)(IN DIGITAL MODE)

(Only South Africa, Malaysia)

The TV gives you access to digital teletext which is greatly improved in various aspects such as text, graphics etc.

This digital teletext can access special digital teletext services and specific services which broadcast digital teletext.

TELETEXT WITHIN DIGITAL SERVICE

- Press the numeric or **P** ^ v button to select a digital service which broadcasts digital teletext.
- Follow the indications on digital teletext and move onto the next step by pressing TEXT, OK, ^ ∨ < >, RED, GREEN, YELLOW, BLUE or NUMBER buttons and etc..
- To change digital teletext service, select a different service by the numeric or **P** \wedge \vee button.



TELETEXT IN DIGITAL SERVICE

- Press the numeric or **P** \wedge \vee button to select a certain service which broadcasts digital teletext.
- Press the **TEXT** or coloured button to switch on teletext.
- Follow the indications on digital teletext and move onto the next step by pressing **OK**, $\wedge \vee < >$, **RED**, **GREEN**, **YELLOW**, **BLUE** or **NUMBER** buttons and so on.
- Press the **TEXT** or colour button to switch off digital teletext and return to TV viewing.

Some services may allow you to access text services by pressing the **RED** button.







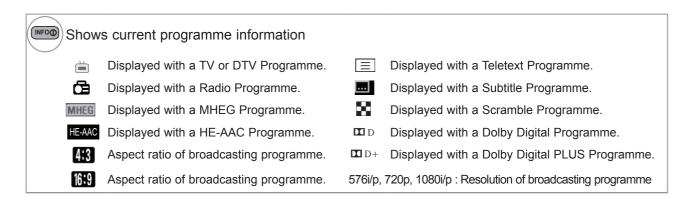
(Only New Zealand)

This feature is enabled only in New Zealand.

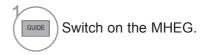
- In New Zealand, pressing the Guide key will display MHEG EPG provided by New Zealand on the screen.

This system has an MHEG(Multimedia and hypermedia information coding expert group) to help your navigation through all the possible viewing options.



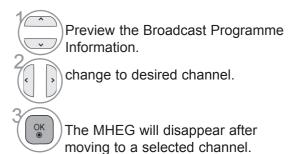


SWITCH ON MHEG



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SELECT A PROGRAMME

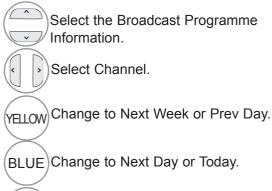


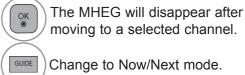


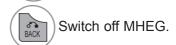


MHEG (MULTIMEDIA AND HYPERMEDIA INFORMATION CODING EXPERT GROUP)(IN DIGITAL MODE)

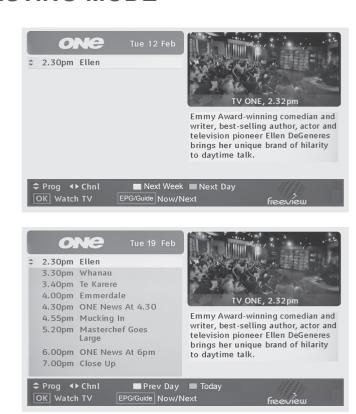
BUTTON FUNCTION IN LISTING MODE









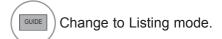


BUTTON FUNCTION IN NOW/NEXT MODE

You can view a channel being broadcasted and one scheduled to follow.



The MHEG will disappear after moving to a selected channel.



Switch off MHEG.









PICTURE CONTROL

PICTURE SIZE (ASPECT RATIO) CONTROL

You can watch the screen in various picture formats; 16:9, Just Scan, Original, Full Wide, 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.

You can adjust the enlarge proportion using $\land \lor$ button.

This function works in the following signal.



Select Aspect Ratio.



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 Ratio Menu. After completing Zoom Setting, the display goes back to Q.Menu.

16:9

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



• Original

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



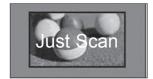
or



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.



Full Wide (Only DTV)

When TV receives the wide screen signal, it will lead you to adjust the picture horizontally or vertically, in a linear proportion, to fill the entire screen fully.

4:3 and 14:9 video is supported in full screen without any video distortion through DTV input.



or







PICTURE CONTROL

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PICTURE CONTROL

• 4:3

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



· 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 moved to the up and down.



• 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 want to enlarge the picture in correct proportion.

Note: When enlarging or reducing the picture, the image may become distorted.



✓ or ▶ button: Adjust enlarge proportion of Cinema Zoom. The adjustment range is 1 to 16.
 ▼ or ▲ button: Move the screen.

NOTE

- ▶ You can only select **4:3**, **16:9** (Wide), **14:9**, **Zoom/Cinema Zoom** in Component mode.
- ➤ You can only select **4:3**, Original, **16:9** (Wide), **14:9**, **Zoom/Cinema Zoom** in HDMI mode.
- ▶ You can only select **4:3**, **16:9** (Wide) in RGB-PC, HDMI-PC mode only.
- ▶ In DTV/HDMI/Component (over 720p) mode, **Just Scan** is available.
- ▶ In DTV (over 576p) mode, **Just Scan** is available in Australia only.





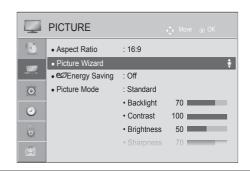
PICTURE WIZARD

This feature lets you adjust the picture quality of the original image.

Use this to calibrate the screen quality by adjusting the Black and White Level etc. General users can calibrate the screen quality by easily following each stage.

When you adjust the image to Low, Recommended or High, you can see the changed result as an example.

In RGB-PC/HDMI-PC/DVI-PC mode, the changed Colour, Tint and H/V Sharpness values are not applied.





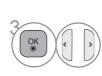




Select PICTURE.



Select Picture Wizard.



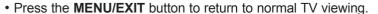
Adjust Standard(Black Level, White Level, Tint, Colour, Horizontal Sharpness, Vertical Sharpness, Backlight) or Preferred(Black Level, White Level, Tint, Colour, Sharpness, Dynamic Contrast, Colour Temperature, Backlight).



Select input source to apply the settings.



- If you stop the setting before the final stage, the changes will not be applied
- The adjustment value is saved to **Expert1**.
- Once the Picture Wizard sets the image quality, the Energy Saving is changed into Off.
- If the picture quality setting of Expert1 is changed, use the Picture Reset before entering the Picture Wizard to reset the picture quality setting.
- **Standard**: mode to set standard picture quality.
- Preferred: mode to set user preferred picture quality rather than standard picture.



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





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PICTURE CONTROL

EXERCITE SAVING

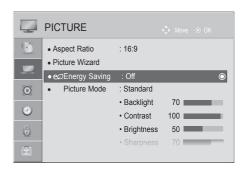
It reduces the TV's power consumption.

The default factory setting is adjusted to the comfortable level to be viewed at home.

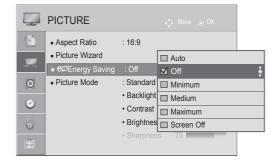
You can change the brightness of your screen by adjusting the **Energy Saving level** or by setting the **Picture Mode**.

When adjusting Energy Saving in MHEG mode, the Energy Saving setting is applied after MHEG is finished.

Selecting 'Screen Off' while tuned to a radio station channel will reduce power consumption.









Select PICTURE.



Select ed Energy Saving.



Select Auto, Off, Minimum , Medium, Maximum or Screen Off.

- Press the **MENU/EXIT** button to return to normal TV viewing.
- Press the **BACK** button to move to the previous menu screen.
- When you select Screen Off, the screen will be turned off in 3 seconds and Screen Off will start.
- If you adjust "Energy Saving-Auto, Maximum", Backlight feature will not work.
- You can also adjust this feature by selecting **Energy Saving** button on the remote control.
- When selecting Auto, Backlight is automatically adjusted through intelligent sensor according to the surrounding condition when intelligent sensor is in the TV.





PRESET PICTURE SETTINGS

Picture Mode-Preset

Vivid/Family Strengthen the contrast, brightness, colour and sharpness for vivid picture.

Standard The most general screen display status. **Cinema** Optimizes video for watching movies.

Sport/Cricket Optimizes video for watching sports events.

Game Optimizes video for playing games.

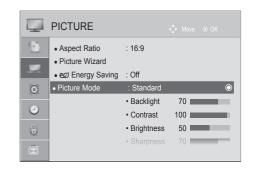
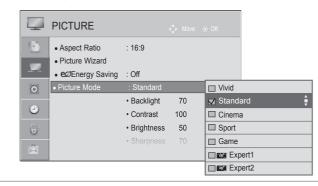


Image shown may differ from your TV.





Select PICTURE.



Select Picture Mode.



Select Vivid, Standard, Cinema, Sport or Game.

- Press the MENU/EXIT button to return to normal TV viewing.
- Press the **BACK** button to move to the previous menu screen.
- **Picture Mode** adjusts the TV for the best picture appearance. Select the preset value in the **Picture Mode** menu based on the programme category.
- When the Intelligent sensor function is on, the most suitable picture is automatically adjusted according to the surrounding conditions.
- You can also adjust Picture Mode in the Q. Menu.



PICTURE CONTROL

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PICTURE CONTROL

MANUAL PICTURE ADJUSTMENT

Picture Mode-User option

Backlight

To control the brightness of the screen, adjust the brightness of LCD panel.

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

Contrast

Adjusts the signal level between black and white in the picture. You may use Contrast when the bright part of the picture is saturated.

Brightness

Adjusts the base level of the signal in the picture.

Sharpness

Adjusts the level of crispness in the edges between the light and dark areas of the picture.

The lower the level, the softer the image.

Colour

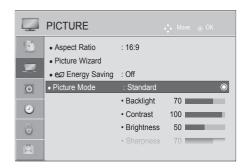
Adjusts intensity of all colours.

Tint

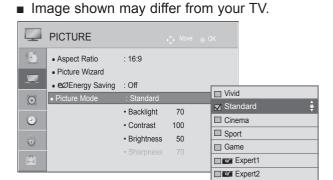
Adjusts the balance between red and green levels.

Colour Temp.

Adjust to left direction to make a picture reddish or adjust to right direction to make a picture bluish.









Select PICTURE.



Select Picture Mode.



Select Vivid/Family, Standard, Cinema, Sport/Cricket or Game.



Select Backlight, Contrast, Brightness, Sharpness, Colour, Tint or Colour Temp..



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.





- 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.

• NOTE

- ▶ You cannot adjust colour, sharpness and tint in the RGB-PC/HDMI-PC mode.
- ▶ When the Expert 1/2 is selected, you can select Backlight, Contrast, Brightness, H Sharpness, V Sharpness, Colour or Tint.





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PICTURE CONTROL

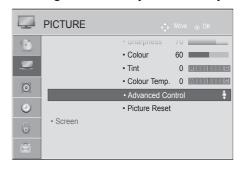
PICTURE IMPROVEMENT TECHNOLOGY

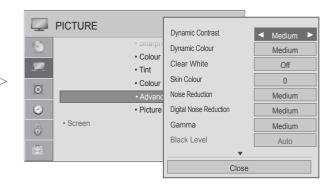
You can calibrate the screen for each Picture Mode or set the video value according to the special video screen.

You can set the video value differently for each input.

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

■ Image shown may differ from your TV.







Select PICTURE.



Select Advanced Control.



Select your desired Source.:

Dynamic Contrast Dynamic Colour Cle

Dynamic Contrast, Dynamic Colour, Clear White, Skin Colour, Noise Reduction, Digital Noise Reduction, Gamma, Black Level, Eye Care, Real Cinema, Colour Gamut or xvYCC. (Refer to p. 80 to 81)



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.



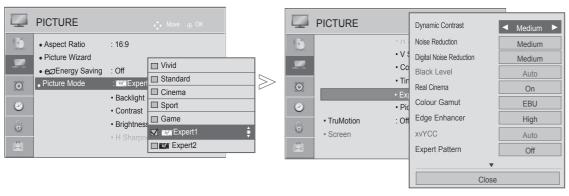


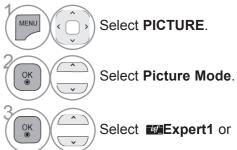
EXPERT PICTURE CONTROL

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

This may also be used to help a professional optimize the TV performance using specific videos.

■ Image shown may differ from your TV.



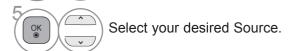


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Select PICTURE.



Select Expert Control.



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.



PICTURE CONTROL



PICTURE CONTROL

*This feature is not available for all models.

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.
Skin Color (-5~5)	Adjusts skin colour of the picture so that user can set his favourite skin colour.
Noise Reduction (Off/Low/Medium/High/ Auto(In Analogue Mode Only))	■ Reduces screen noise without compromising video quality.
Digital Noise Reduction (Low/Medium/High/Off)	■ Reduces noise regarding MPEG compressed video.
Gamma (Advanced Control: Low/Medium/High Expert Control: 1.9/2.2/2.4)	 You can adjust brightness of dark area and middle gray level area of the picture. Low/1.9: Makes dark and middle gray level area of the picture brighter. Medium/2.2: Expresses original picture levels. High/2.4: Make dark and middle gray level area of the picture darker.
Black Level (Low/High/Auto)	 Low: The picture of the screen gets darker. High: The picture of the screen gets brighter. Auto: Sets black level of the screen to High or Low automatically according to the input signal level. 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'.
Clear White (Off/Low/High)	■ Makes the white area of the screen brighter and clearer.
Eye Care (Low/High/Off)	*This feature is not available for all models. ■ Adjusts the brightness of the screen automatically to the best level for eyes when the screen is too bright. ■ This feature is disable in "Picture Mode-Vivid, Cinema.
Real Cinema (On/Off)	 You can watch a cinema-like video by eliminating judder effect. Use this function when you watch film-originated movie contents.







Colour Gamut (Advanced Control: Wide/Standard)	 Standard: Mode to use original colour area regardless of the display characteristics. Wide: Mode to use maximum colour area of the TV display. Maximize the utilization for colour area that can be expressed.
Color Gamut (Expert Control: Standard/EBU/ SMPTE/BT709/Wide)	 Standard: Mode to use original colour area regardless of the display characteristics. Wide: Mode to use maximum colour area of the TV display. EBU: Mode to display EBU colour area. SMPTE: Mode to display SMPTE colour area. BT709: Mode to display BT709 colour area.
Edge Enhancer (Off/Low/High)	Makes the edge of the picture clearer and distinctive. This function can use in "Picture Mode-Expert."
xvYCC (Auto/off/on)	*This feature is not available for all models. ■ This is the function to express richer colour. ■ This function is enabled in "Picture mode - Cinema, Expert" when xvYCC signal is inputted through HDMI
Expert Pattern (Off/Pattern1/Pattern2)	 This is the pattern necessary for checking the picture of Digital TV. This function is enabled in "Picture Mode - Expert" when you watch DTV.
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.
Colour Temperature (Medium/Warm/Cool)	This is the function to adjust the overall colour of the screen to the feeling you want. a. • Method : 2 Points • Pattern: Inner, Outer • Red/Green/Blue Contrast, Red/Green/Blue Brightness: The adjustment range is -50 ~ +50. b. • Method : 10 point IRE • Pattern: Inner / Outer • IRE (Institute of Radio Engineers) is the unit to display the size of the video signal and can be set among 10, 20, 30 - 100. You can adjust Red, Green or Blue according to each setting. • Luminance: This function displays calculated luminance value for 2.2 gamma. You can input luminance value you want at 100 IRE, than the target luminance value for 2.2 gamma is displayed at every 10 steps from 10 IRE to 90 IRE. • Red/Green/Blue: The adjustment range is -50 ~ +50.
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 ~ +30. Red/Green/Blue/Yellow/Cyan/Magenta Tint: The adjustment range is -30 ~ +30. This feature is disable in RGB-PC and HDMI (PC) mode.





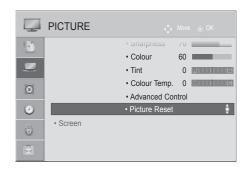
(



PICTURE CONTROL

PICTURE RESET

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

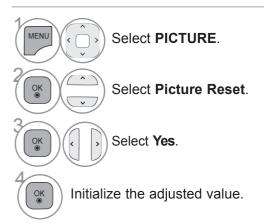








PICTURE CONTROL



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





POWER INDICATOR

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

Standby Light

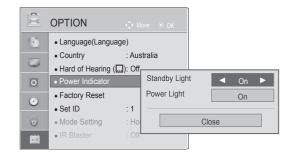
Determines whether to set the indicator light on the front of the TV to **On** or **Off** in standby mode.

Power Light

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









Select **OPTION**.



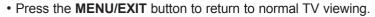
Select Power Indicator.



Select Standby Light or Power Light.



Select your desired Source.



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



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SOUND & LANGUAGE CONTROL

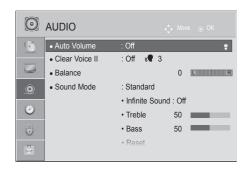
AUTO VOLUME LEVELER

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.

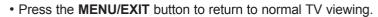
If sound quality or volume is not at the level you want, it is recommended to use a separate home theater system or amp to cope with different user environments.

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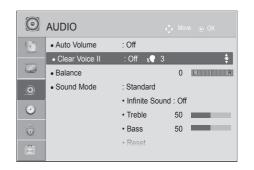
• Press the **BACK** button to move to the previous menu screen.

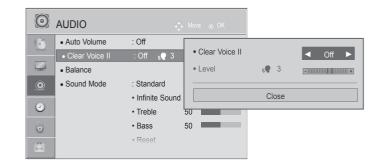




CLEAR VOICE II

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







- If you select "On" for Clear Voice II, Infinite Sound feature will not work.
- Select levels from '-6' to '+6'.

Adjustment for Clear Voice Level With selecting On



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Select Level.



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.





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SOUND & LANGUAGE CONTROL

PRESET SOUND SETTINGS-SOUND MODE

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

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

Standard, Music, Cinema, Sport/Cricket 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/Cricket Optimizes sound for watching sports events.
 Game Optimizes sound for playing games.

■ Image shown may differ from your TV.

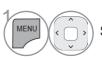






Menu.

· You can also adjust Sound Mode in the Q.



Select AUDIO.



Select Sound Mode.



Select Standard, Music, Cinema, Sport/Cricket or Game.

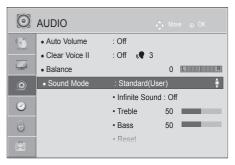
- Press the **MENU/EXIT** button to return to normal TV viewing.
- Press the **BACK** button to move to the previous menu screen.





SOUND SETTING ADJUSTMENT -USER MODE

■ Image shown may differ from your TV.







Select AUDIO.



Select Sound Mode.



Select Standard, Music, Cinema, Sport/Cricket or Game.

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Select Treble or Bass.



Set the desired sound level.

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

INFINITE SOUND

Select this option to sound realistic.



Select AUDIO.



Select Infinite Sound.



Select On or Off.

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

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



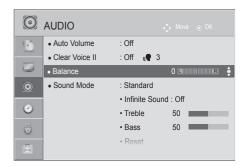
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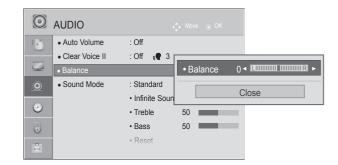
SOUND & LANGUAGE CONTROL

BALANCE

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









Select AUDIO.



Select Balance.



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.





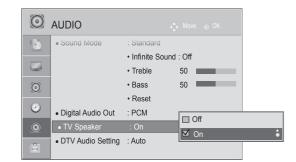
TV SPEAKERS ON/ OFF SETUP

You can adjust the TV internal speaker status.

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

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







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

NOTE

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- ▶ 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.
- ▶ Some menus in **AUDIO** are disabled when TV Speaker is set to Off.



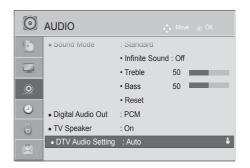
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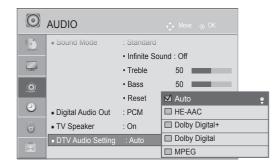
SOUND & LANGUAGE CONTROL

DTV AUDIO SETTING (IN DIGITAL MODE ONLY) (Only DTV)

When different audio types exist in an input signal, this function allows you to select the audio type you want.









Select **AUDIO**.



Select DTV Audio Setting.



Select Auto, HE-AAC, Dolby Digital +, Dolby Digital or MPEG.

- Press the **MENU/EXIT** button to return to normal TV viewing.
- Press the **BACK** button to move to the previous menu screen.
- Auto: Automatically outputs in the order HE-AAC > Dolby Digital + > Dolby Digital > MPEG.
- **HE-AAC, Dolby Digital +, Dolby Digital, MPEG**: Allows users to select the audio type they want. ex) If **MPEG** is selected, **MPEG** is always outputted.

If MPEG is not supported, another audio type is set in that order.









SELECTING DIGITAL AUDIO OUT

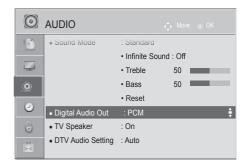
It is possible to use in DTV, HDMI, DivX mode.

This function allows you to select your preferred Digital Audio Output.

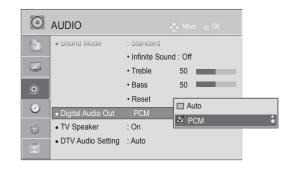
When Dolby Digital is available, selecting Auto in the Digital Audio Out menu will set SPDIF(Sony Philips Digital InterFace) output to Dolby Digital.

If Auto is selected in the digital audio out menu when Dolby Digital is not available, SPDIF output will be PCM(Pulse-code modulation).

Even if both Dolby Digital and Audio language have been set in a channel which broadcast Dolby Digital Audio, only Dolby Digital will be played.









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Select AUDIO.



Select Digital Audio Out.



Select Auto or PCM.

Item	Audio Input	Digital Audio output
Auto(Speaker On)	MPEG Dolby Digital Dolby Digital Plus HE-AAC	PCM Dolby Digital Dolby Digital PCM
Auto(Speaker Off)	MPEG Dolby Digital Dolby Digital Plus HE-AAC	PCM Dolby Digital Dolby Digital Dolby Digital
PCM	All	PCM

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



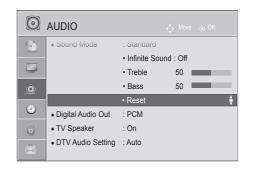
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SOUND & LANGUAGE CONTROL

AUDIO RESET

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









Select **AUDIO**.



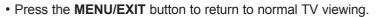
Select Reset.



Select Yes.



Initialize the adjusted value.



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





1/11

STEREO/DUAL RECEPTION (IN ANALOGUE MODE ONLY)

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



Select Audio or Audio Language.



Select the sound output.

r		
	Broadcast	On Screen Display
ŀ		
	Mono	MONO
	0.1	OTEREO
	Stereo	STEREO
	Dual (Except for Singapore, New Zealand and	DUAL I, DUAL II, DUAL I+II (Except for Singapore, New Zealand
	Indonesia)	and Indonesia)
ļ	iliuoliesia)	and indonesia)
	NICAM (Only Singapore, New Zealand and Indonesia)	NICAM (Only Singapore, New Zealand and Indonesia)

■ 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 (Except for Singapore, New Zealand and Indonesia)

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.





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SOUND & LANGUAGE CONTROL

NICAM RECEPTION (IN ANALOGUE MODE ONLY)

(Except for Singapore, New Zealand and Indonesia)

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

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

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

SPEAKER SOUND OUTPUT SELECTION

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

Select the sound output.

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

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

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







ON-SCREEN MENU LANGUAGE / COUNTRY SELECTION

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



Select your desired language. (Except for Australia, New Zealand, Singapore and South Africa.)



Select your country. (Only Australia & New Zealand)

^{*} If you want to change Language/ Country selection



Select **OPTION**.



Select Language(Language).



Select **Menu Language**. (Except for Australia, New Zealand, Singapore and South Africa.)



Select your desired language.



Save.

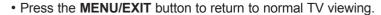




Select your country.



Save.



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

• NOTE

- ▶ If you do not finish the set-up **Installation Guide** 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.
- ▶ If you select the wrong local country, teletext may not appear correctly on the screen and some problems may occur during teletext operation.
- ▶ DTV mode control buttons may not function based on country broadcasting circumstances. (Only DTV)
- ▶ In country that Digital broadcasting regulation isn't fixed, some DTV function may not work depending on digital broadcasting circumstances. (Only DTV)





SOUND & LANGUAGE CONTROL

LANGUAGE SELECTION (IN DIGITAL MODE ONLY) (Only DTV)

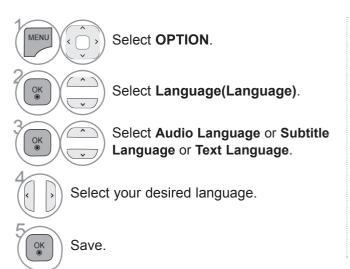
The Audio function allows selection of a preferred language.

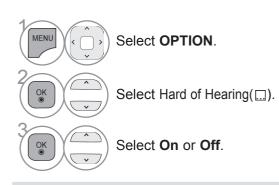
If audio data in a selected language is not broadcast, the default language audio will be played.

Use the Subtitle function when two or more subtitle languages are broadcast. If subtitle data in a selected language is not broadcast, the default language subtitle will be displayed.

When the languages you selected as the primary for Audio Language and Subtitle Language and Text Language are not supported, you can select language in secondary category (Only New Zealand).

In Digital mode, use the Text language function when two or more Text languages are broadcast. If teletext data in a selected language is not broadcast, the default Text language will be displayed.





• NOTE

► It is only available to use Hard of Hearing on some TV stations in New Zealand.

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





SOUND & LANGUAGE CONTROL

< Audio Language Selection >

▶ When two or more audio languages are broadcast, you can select the audio language.



Select Audio or Audio Language.



Select an audio language.

< Subtitle Language Selection >

- ▶ When two or more subtitle languages are broadcast, you can select the subtitle language with the SUBTITLE button on the remote control.
- ▶ Press the ^ ∨ button to select a subtitle language.

Audio Language OSD Information			
Display	Status		
N.A	Not Available		
MPEG	MPEG Audio		
M D	Dolby Digital Audio		
₽.∞	Audio for "Visual Impaired"		
ABC	Audio for "Hearing Impaired"		
™ D+	Dolby Digital Plus Audio		
HE-AAC	HE-AAC Audio		

Subtitle Language OSD information		
Display	Status	
N.A	Not Available	
TXT	Teletext Subtitle	
ABC	Subtitle for "Hard of Hearing"	

- The audio/subtitles can be displayed in a simpler form with 1 to 3 characters broadcast by the service provider.
- When you select supplementary Audio (Audio for "Visual/Hearing Impaired") the TV may output a part of the Main audio.

Analogue TV	Manufactured under license from Dolby Laboratories. "Dolby" and the double-D symbol are trademarks of Dolby Laboratories.		
Digital TV	Manufactured under license from Dolby Laboratories. "Dolby "and the double-D symbol are trademarks of Dolby Laboratories. PULSE		
Digital TV	There is a possibility that when HDMI mode, some DVD players do not make SPDIF sound. At that time, set the output of the digital audio of the DVD player to PCM. (In HDMI, Dolby Digital Plus is not supported).		







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TIME SETTING

CLOCK SETUP

The clock is set automatically when receiving a digital signal in **Auto** mode. You can set the clock manually in **Manual** mode.

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

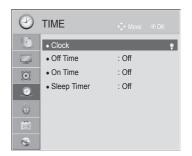
< Only Australia >

When you select a Time Zone city, the TV time is set by the time offset information based on Time Zone and GMT (Greenwich Mean Time) which is received with the broadcast signal and the time is set automatically by a digital signal.

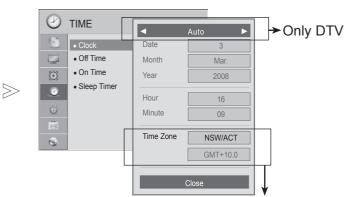
<Only Indonesia, Israel>

GMT (Greenwich Mean Time) which is received with the broadcast signal and the time is set automatically by a digital signal.

Time Zone is activated only in **Auto** Mode.



■ Image shown may differ from your TV.



Only Australia, Indonesia and Israel



Select TIME.



Select Clock.



Select **Auto** or **Manual**. (Only DTV)



Select either the year, month, date, time or Time Zone(Only Australia, Indonesia and Israel) option.



Set the year, month, date, time or Time Zone (Only Australia, Indonesia and Israel) option.

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





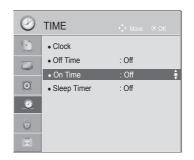
AUTO ON/OFF TIME SETTING

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

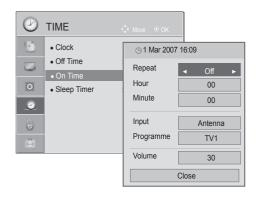
Two hours after the TV is switched on by the on time function it will automatically switch back to standby mode unless a button has been pressed.

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.









Select TIME.



Select Off Time or On Time.



Select Repeat.



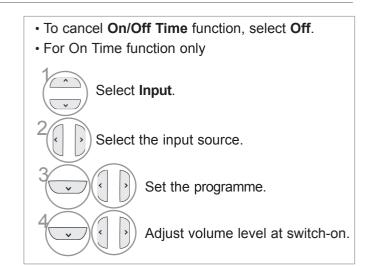
Select Off, Once, Daily, Mon. ~ Fri., Mon. ~ Sat., Sat. ~ Sun. or Sun..



Set the hour.



Set the minutes.



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





TIME SETTING

SLEEP TIMER SETTING

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



Select Sleep Timer.



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

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





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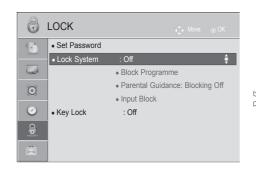


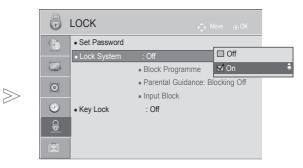
PARENTAL CONTROL / RATINGS

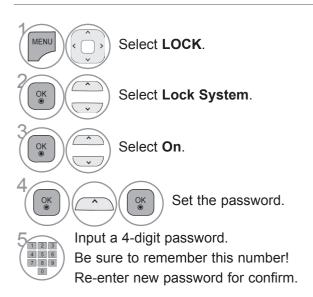
SET PASSWORD & LOCK SYSTEM

Enter the password, press '0', '0', '0', '0' on the remote control handset.

If a channel is locked, enter the password to unlock it temporarily.







• If you forget your password, press '0', '3', '2', '5' on the remote control handset.

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



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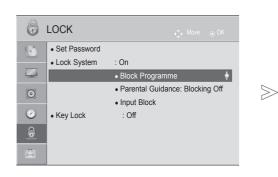
PARENTAL CONTROL / RATINGS

BLOCK PROGRAMME

Blocks any programme that you do not want to watch or that you do not want your children to watch.

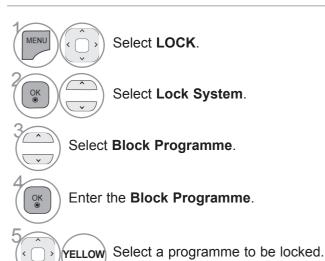
It is available to use this function in Lock System "On".

Enter a password to watch a blocked programme.



■ Image shown may differ from your TV.





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





PARENTAL CONTROL (IN DIGITAL MODE ONLY) (Only DTV)

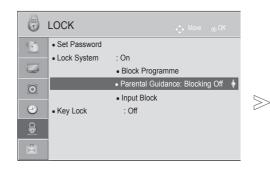
This function operates according to information from the broadcasting station. Therefore if the signal has incorrect information, this function does not operate.

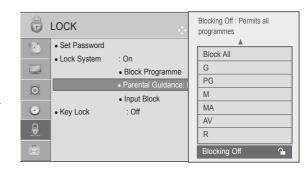
A password is required to gain access to this menu.

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

Prevents children from watching certain adult's TV programmes, according to the ratings limit set. Enter a password to watch a blocked programme. Rating differs by country.

■ Image shown may differ from your TV.







Select LOCK.



Select Lock System.



Select Parental Guidance.



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.





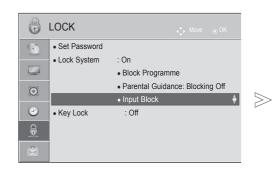


PARENTAL CONTROL / RATINGS

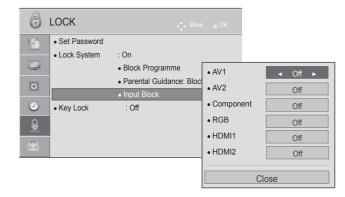
EXTERNAL INPUT BLOCKING

Enables you to block an input.

It is available to use this function in Lock System "On".



■ Image shown may differ from your TV.





Select LOCK.



Select Lock System.



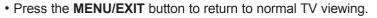
Select Input Block.



Select input source.



Select On or Off.



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



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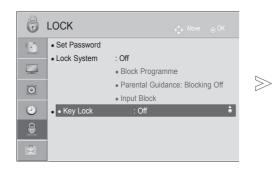


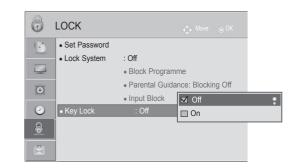


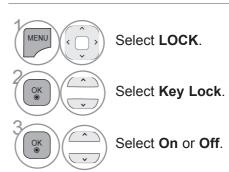
KEY LOCK

This feature can be used to prevent unauthorized viewing by locking out the front panel controls, so that it can only be used with the remote control.

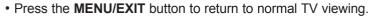
This TV is programmed to remember which option it was last set to even if you turn the TV off.







- In Key Lock 'On', if the TV is turned off, press the ^(b)
 / I, INPUT, 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.
- When another OSD is displayed, ' Key Lock
 On ' will not operate.



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



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TELETEXT

This feature is not available in all countries.

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

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

SWITCH ON/OFF

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

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

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

SIMPLE TEXT

- Page selection
- Enter the desired page number as a three digit number with the NUMBER buttons. If during selection you press a wrong number, you must complete the three digit number and then re-enter the correct page number.

2 The P \(\times \) 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

- With the blue button you can progress from block to block.
- ② Use the yellow button to proceed to the next group with automatic overflow to the next block.
- 3 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. The red button returns to the previous selection. Alternatively the P v button can be used.

Direct page selection

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

FASTEXT

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

■ Page selection

- Press the T.OPT button and then use ∧ ∨ button to select \(\bar{\bar{\text{\text{Eil}}}}\) menu. Display the index page.
- 2 You can select the pages which are colour coded along the bottom line with corresponding coloured buttons.
- 3 AS with SIMPLE teletext mode, you can select a page by entering its three digit page number with the NUMBER buttons in FASTEXT mode.

■ The P^ v button can be used to select the preceding or following page.





TELETEXT

SPECIAL TELETEXT FUNCTIONS

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



■ Index

Select the each index page.



■ Time

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

In the teletext mode, press this button to select a sub page number. The sub page number is displayed at the bottom of the screen. To hold or change the sub page, press the RED/GREEN, <> or NUMBER buttons.

Text Option

[i] Index

EØ Time

E¥ Hold

Reveal
Update



■ Hold

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



■ Reveal

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



Update

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









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.		
	■ Is the sleep timer set?		
Power is suddenly	■ Check the power control settings. Has the Power supply been interrupted.		
turned off	■ If the TV is switched on and there is no input signal, it will switch off automatically after 15 minutes.		

The video function does	not work.	
	■ Check whether the TV is switched on.	
	■ Try another channel. The problem may be with the broadcast.	
No picture & No sound	Is the power cord inserted correctly into the mains?	
	■ Check your antenna direction and/or location.	
	■ Test the mains outlet by plugging another TV into the same outlet.	
Picture appears slowly	■ This is normal, the image is muted during the TV startup process. Please contact	
after switching on	your service centre, if the picture has not appeared after five minutes.	
	Adjust Colour in menu option.	
No or poor colour	Allow a sufficient distance between the TV and the VCR.	
·	■ Try another channel. The problem may be with the broadcast.	
or poor picture	■ Are the video cables installed properly?	
	■ Activate any function to restore the brightness of the picture.	
Horizontal/vertical bars	■ Check for local interference such as an electrical appliance or power tool.	
or picture shaking	The Crieck for local interference such as an electrical appliance of power tool.	
Poor reception on	■ Station or cable channel experiencing problems, tune to another station.	
some channels	 Station signal is weak, reposition the antenna to receive weaker stations. 	
Some chamiles	■ Check for sources of possible interference.	
Lines or streaks	■ Check antenna (Change the position of the antenna).	
in pictures		
No picture	■ Check that your HDMI cable is High Speed HDMI Cable. If the HDMI cables are	
when connecting	not High Speed HDMI Cable, flickering or no screen display can result. Please	
HDMI	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 con- necting HDMI or USB	 Check HDMI cable is High Speed HDMI Cable. Check USB cable over version 2.0. *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.		





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MAINTENANCE

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

Caution: Be sure to switch the power off and unplug the power cord before you begin any cleaning.

Cleaning the Screen

- A good way to keep the dust off your screen for a while is to wet a soft cloth in a mixture of 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

A CAUTION

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







PRODUCT SPECIFICATIONS

MODELS		32LD4**	37LD4**
		32LD462B-TA	37LD462B-TA
Dimensions (Width x Height x Depth)	with stand	799.0 mm x 555.0 mm x 207.0 mm	916.0 mm x 625.0 mm x 261.0 mm
Берш)	without stand	799.0 mm x 516 mm x 73.5 mm	916.0 mm x 584 mm x 77.4 mm
Weight with stand without stand		9.6 kg 8.6 kg	12.9 kg 11.2 kg
Power requirement		AC 100-240 V~ 50 / 60 Hz	AC 100-240 V~ 50 / 60 Hz
MODELS		42LD4**	47LD4**
		42LD462B-TA	47LD462B-TA
Dimensions (Width x Height x	with stand	1023.0 mm x 685.0 mm x 261.0 mm	1136.0 mm x 757.0 mm x 270.0 mm
Depth)	without stand	1023.0 mm x 644 mm x 76.6 mm	1136.0 mm x 706 mm x 76.5 mm
Weight with stand without stand		15.4 kg 13.7 kg	19.6 kg 17.6 kg
Power requirement		AC 100-240 V~ 50 / 60 Hz	AC 100-240 V~ 50 / 60 Hz
Operating Temperature Environment condition Operating Humidity		0 °C to 40 °C Less than 80 %	
	Storage Temperature	-20 °C to 60 °C	
Storage Humidity		Less than 85 %	
Supported movie files		Refer to p.42 to 43	

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







		Digital TV	Analogue TV	
New Zealand, Singapore	Television System	Television System DVB-T PAL/SECAM-B/G/D/K		
			BG: VHF/UHF 1 to 69, CATV 01 to 47	
	Program Coverage	UHF 21 to 69	I: VHF/UHF 1 to 69, CATV 01 to 47	
			DK: VHF/UHF 1 to 69, CATV 01 to 47	
Australia	Television System	DVB-T	PAL B/B	
	Program Coverage	VHF 06 to 12,	B/B : VHF/UHF 0 to 75, CATV : 2 to 44	
	1 Togram Coverage	UHF 27 to 69	B/B : VIII/OIII 0 to 73, CATV : 2 to 44	
Indonesia, Israel	Television System	DVB-T	PAL/SECAM-B/G/D/K, PAL-I, NTSC-M	
			BG : VHF/UHF 1 to 69, CATV 01 to 47	
	Program Coverage	UHF 21 to 69	I: VHF/UHF 1 to 69, CATV 01 to 47	
	Flogram Coverage	0111-21-10-09	DK: VHF/UHF 1 to 69, CATV 01 to 47	
			M: VHF/UHF 2 to 78, CATV 01 to 71	
South Africa	Television System	DVB-T	PAL/SECAM-B/G/D/K, PAL-I, NTSC-M	
			BG: VHF/UHF 1 to 69, CATV 01 to 47	
	D	VHF 4 to 11, 13	I: VHF/UHF 1 to 69, CATV 01 to 47	
	Program Coverage	UHF 21 to 68	DK: VHF/UHF 1 to 69, CATV 01 to 47	
			M: VHF/UHF 2 to 78, CATV 01 to 71	
Veitnam, Malaysia	Television System	DVB-T	PAL/SECAM-B/G/D/K, PAL-I, NTSC-M	
			BG: VHF/UHF 1 to 69, CATV 01 to 47	
	Dragger Cayana	VHF 6 to 12,	I: VHF/UHF 1 to 69, CATV 01 to 47	
	Program Coverage	UHF 21 to 69	DK: VHF/UHF 1 to 69, CATV 01 to 47	
			M: VHF/UHF 2 to 78, CATV 01 to 71	
Iran	Television System	DVB-T	PAL/SECAM-B/G/D/K, PAL-I, NTSC-M	
			BG: VHF/UHF 1 to 69, CATV 01 to 47	
	Dragger Cayana	VHF 5 to 12,	I: VHF/UHF 1 to 69, CATV 01 to 47	
	Program Coverage	UHF 21 to 69	DK: VHF/UHF 1 to 69, CATV 01 to 47	
			M : VHF/UHF 2 to 78, CATV 01 to 71	
Analogue model	Television System	-	PAL/SECAM-B/G/D/K, PAL-I, NTSC-M	
			BG : VHF/UHF 1 to 69, CATV 01 to 47	
	Dragger Course	-	I : VHF/UHF 1 to 69, CATV 01 to 47	
	Program Coverage		DK: VHF/UHF 1 to 69, CATV 01 to 47	
			M : VHF/UHF 2 to 78, CATV 01 to 71	
	External Antenna Impedance	75 Ω	75 Ω	

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











IR CODES This feature is not a

This feature is not available for all models.

s feature is not available for all models.				
Code (Hexa)	Function	Note		
95	Energy Saving	R/C BUTTON		
08	POWER	R/C BUTTON(POWER ON/OFF)		
0B	INPUT	R/C BUTTON		
79	RATIO	R/C BUTTON		
F0	TV/RAD	R/C BUTTON		
45	Q.MENU	R/C BUTTON		
43	MENU	R/C BUTTON		
AB	GUIDE	R/C BUTTON		
40	Up (^)	R/C BUTTON		
41	Down (v)	R/C BUTTON		
07	Left (<)	R/C BUTTON		
06	Right (>)	R/C BUTTON		
44	OK(⊚)	R/C BUTTON		
28	BACK	R/C BUTTON		
5B	EXIT	R/C BUTTON		
AA	INFO (i)	R/C BUTTON		
30	AV MODE	R/C BUTTON		
02	⊿+	R/C BUTTON		
03	⊿-	R/C BUTTON		
1E	FAV/MARK	R/C BUTTON		
09	MUTE	R/C BUTTON		
00	P ^ / PAGE ^	R/C BUTTON		
01	P v /PAGE v	R/C BUTTON		
10~19	Number Key 0~9	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/(L/R SELECT)	R/C BUTTON		
20	TEXT	R/C BUTTON		
21	T.OPT(T.Option)	R/C BUTTON		
39	SUBTITLE	R/C BUTTON		
0F	TV	R/C BUTTON		
B1		R/C BUTTON		
B0	>	R/C BUTTON		
BA	II	R/C BUTTON		
8F	44	R/C BUTTON		
8E	>>	R/C BUTTON		
0C	PORTAL	R/C BUTTON		



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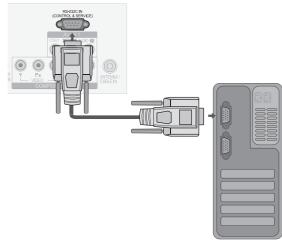
EXTERNAL CONTROL DEVICE SETUP

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.

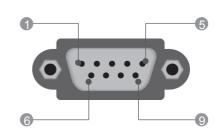
Connect the serial port of the control device to the RS-232C jack on the product back panel.

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



Type of Connector; D-Sub 9-Pin Male

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



RS-232C Configurations

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

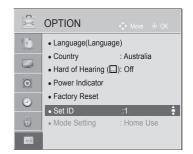
3-Wire Configurations(Not standard)							
	PC	TV					
RXD	2 •——	3	TXD				
TXD	3 •——	→ 2	RXD				
GND	5 •	→ 5	GND				
DTR	4	6	DTR				
DSR	6	4	DSR				
RTS	7	7	RTS				
CTS	8	8	CTS				
	D-Sub 9	D-Sub 9					

PPENDIX

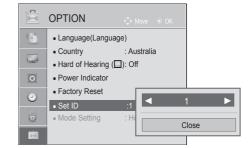


Set ID

Use this function to specify a set ID number.









Select **OPTION**.



Select Set ID.



Adjust Set ID to choose the desired TV ID number.

The adjustment range of SET ID is 1 to 99.



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





Communication Parameters

■ Baud rate: 9600 bps (UART)

Data length: 8 bitsParity: NoneStop bit: 1 bit

■ Communication code : ASCII code

■ Use a crossed (reverse) cable.

Command Reference List

	COMMAND 1	COMMAND 2	DATA (Hexadecimal)
01. Power	k	а	00 to 01
02. Aspect Ratio	k	С	Refer to p. 118
03. Screen Mute	k	d	Refer to p. 118
04. Volume Mute	k	е	00 to 01
05. Volume Control	k	f	00 to 64
06. Contrast	k	g	00 to 64
07. Brightness	k	h	00 to 64
08. Colour	k	i	00 to 64
09. Tint	k	j	00 to 64
10. Sharpness	k	k	00 to 64
11. OSD Select	k	1	00 to 01
12. Remote control lock mode	k	m	00 to 01
13. Treble	k	r	00 to 64
14. Bass	k	S	00 to 64
15. Balance	k	t	00 to 64
16. Colour Temperature	Х	u	00 to 64
17. Energy Saving	j	q	00 to 05
18. Auto Configuration	j	u	01
19. Tune Command	m	а	Refer to p. 120
20. Programme Add/Skip	m	b	00 to 01
21. Key	m	С	Key Code
22. Control Back Light	m	g	00 to 64
23. Input select (Main)	Х	b	Refer to p. 121

* Note: During USB operations such as DivX or EMF, all commands except Power(ka) and Key(mc) are not executed and treated as NG.

Transmission / Receiving Protocol <u>Transmission</u>

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

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

* [Command 2] : Second command to control the TV.
 * [Set ID] : You can adjust the set ID to choose desired monitor ID number in option menu. Adjustment range is 1 to 99.
 When selecting Set ID '0', every connected set is controlled.
 Set ID is indicated as decimal (1 to 99)

on menu and as Hexa decimal (1 to 99) on transmission/receiving protocol.

* [DATA] : To transmit command data.

Transmit 'FF' data to read status of command.

OK Acknowledgement

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

* The set 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]

* The set transmits ACK (acknowledgement) based on this format when receiving abnormal data from non-viable functions or communication errors.

Data 00: Illegal Code



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APPENDIX

01. Power (Command: k a)

► To control Power On/Off of the set.

Transmission

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

Data 00 : Power Off 01 : Power On

<u>Ack</u>

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

► To show Power On/Off.

Transmission

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

<u>Ack</u>

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

- * Similarly, if other functions transmit '0xFF' data based on this format, Acknowledgement data feed back presents status about each function.
- * OK Ack., Error Ack. and other message may display on the screen when TV is power On.

02. Aspect Ratio (Command: k c) (Main Picture Size)

To adjust the screen format. (Main picture format) You can also adjust the screen format using the Aspect Ratio in the Q.MENU. or PICTURE menu.

<u>Transmission</u>

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

Data 01 : Normal screen (4:3) 07 : 14:9 09 : Just Scan 04 : Zoom 0B : Full Wide

06 : Original 10 to 1F : Cinema Zoom 1 to 16

<u>Ack</u>

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

- * Using the PC input, you select either 16:9 or 4:3
- screen aspect ratio.
 * In DTV/HDMI (1080i 50 Hz / 60 Hz, 720p 50Hz / 60 Hz, 1080p 24 Hz / 30 Hz / 50 Hz / 60 Hz),
 Component(720p, 1080i, 1080p 50 Hz / 60 Hz)
 mode, Just Scan is available.
- * Full Wide is supported only for DTV mode.

03. Screen Mute (Command: k d)

► To select screen mute on/off.

<u>Transmission</u>

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

Data 00: Screen mute off (Picture on)

Video mute off

01: Screen mute on (Picture off)

10: Video mute on

<u>Ack</u>

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

* In case of video mute on only, TV will display On Screen Display(OSD). But, in case of Screen mute on, TV will not display OSD.

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) 01: Volume mute off (Volume on)

<u>Ack</u>

[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 121.

<u>Ack</u>

[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 121.

Ack

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

07. Brightness (Command: k h)

► To adjust screen brightness. You can also adjust brightness in the PICTURE menu.

Transmission

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

Data Min: 00 to Max: 64

* Refer to 'Real data mapping 1'. See page 121.

Ack

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

08. Colour (Command: k i)

► To adjust the screen colour.

You can also adjust colour in the PICTURE menu.

<u>Transmission</u>

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

Data Min: 00 to Max: 64

* Refer to 'Real data mapping 1'. See page 121.

Ack

[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 121.

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

10. Sharpness (Command: k k)

► To adjust the screen sharpness You can also adjust sharpness in the PICTURE menu.

Transmission

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

Data Min: 00 to Max: 64

* Refer to 'Real data mapping 1'. See page 121.

[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 01: OSD on

<u>Ack</u>

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

12. Remote control lock mode (Command: k m)

► To lock the front panel controls on the monitor and remote control.

Transmission

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

Data 00: Lock off 01: Lock on

<u>Ack</u>

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

* If you are not using the remote control, use this mode.

When main power is on/off, external 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. Treble (Command: k r)

To adjust treble.

You can also adjust treble in the AUDIO menu.

<u>Transmission</u>

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

Data Min: 00 to Max: 64

* Refer to 'Real data mapping 1'. See page 121.

<u>Ack</u>

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

14. 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 121.

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

15. Balance (Command: k t)

▶ To adjust balance.

You can also adjust balance in the AUDIO menu.

Transmission

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

Data Min: 00 to Max: 64

* Refer to 'Real data mapping 1'. See page 121.

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

16. Colour Temperature (Command: x u)

► To adjust colour temperature. You can also adjust Colour Temperature in the PICTURE menu.

Transmission

[x][u][][Set ID][][Data][Cr]

Data Min: 00 to Max: 64

* Refer to 'Real data mapping 1'. See page 121.

<u>Ack</u>

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





17. Energy Saving (Command: j q)

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

Transmission

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

Power Saving Function						Le	vel		Description
7	6	5	4		3	2	1	0	·
0	0	0	0	Low Power	0	0	0	0	Off
0	0	0	0	Low Power	0	0	0	1	Minimum
0	0	0	0	Low Power	0	0	1	0	Medium
0	0	0	0	Low Power	0	0	1	1_	Maximum
0	0	0	0	Low Power	0	1	0	0	Auto
0	0	0	0	Low Power	0	1	0	1	Screen Off

Except for 32/37/42/47LD4**

<u>Ack</u>

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

18. 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

<u>Ack</u>

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

19.Tune Command (Command: m a)

► Select channel to following physical number. <u>Transmission</u>

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

Data00 : High channel data
Data01 : Low channel data
ex. No. 47 -> 00 2F (2FH)
No. 394 -> 01 8A (18AH),
DTV No. 0 -> Don't care

Data02 : 0x00 : Analogue Main 0x10 : DTV Main 0x20 : Radio

Channel data range

Analogue - Min: 00 to Max: 63 (0 to 99) Digital - Min: 00 to Max: 3E7 (0 to 999)

Ack

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

Data Min: 00 to Max: 7DH

20. Programme Add/Skip(Command: m b)

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

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

Data 00 : Skip

01 : Add

<u>Ack</u>

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





21. Key(Command: m c)

 \blacktriangleright To send IR remote key code.

Transmission

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

Data Key code - Refer to page 114.

<u>Ack</u>

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

22. 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

<u>Ack</u>

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

Step 10 (Set ID 10) Α: F: Step 15 (Set ID 15) 10 : Step 16 (Set ID 16) 64: Step 100 6E: Step 110 73: Step 115 74: Step 116 CF: Step 199

* Real data mapping 1

00: Step 0

FE: Step 254 FF: Step 255

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

► To select input source for main picture.

Transmission

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

Data Structure

MSB							LSB
0	0	0	0	0	0	0	0
LE	Extern	al Inp	ut 🗌	L	nput N	lumbe	_{er} J

E	xternal Input			Data
0	0	0	0	DTV
0	0	0	1	Analogue
0	0	1	0	AV
0	1	0	0	Component
0	1	1	0	RGB
0	1	1	1	
1	0	0	0	HDMI
1	0	0	1	וואוטח
1	0	1	0	

In	put N	lumb	er	Data
0	0	0	0	Input1
0	0	0	1	Input2
0	0	1	0	Input3
0	0	1	1	Input4

<u>Ack</u>

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





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Version 1.1

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